

NUTRITION COUNSELING & EDUCATION SKILL DEVELOPMENT

Kathleen D. Bauer
Doreen Liou

4e



FOURTH EDITION

NUTRITION COUNSELING & EDUCATION SKILL DEVELOPMENT

Kathleen D. Bauer

Montclair State University

Doreen Liou

Montclair State University



Australia • Brazil • Mexico • Singapore • United Kingdom • United States

This is an electronic version of the print textbook. Due to electronic rights restrictions, some third party content may be suppressed. Editorial review has deemed that any suppressed content does not materially affect the overall learning experience. The publisher reserves the right to remove content from this title at any time if subsequent rights restrictions require it. For valuable information on pricing, previous editions, changes to current editions, and alternate formats, please visit www.cengage.com/highered to search by ISBN#, author, title, or keyword for materials in your areas of interest.

Important Notice: Media content referenced within the product description or the product text may not be available in the eBook version.

***Nutrition Counseling & Education
Skill Development, Fourth Edition***
Kathleen D. Bauer, Doreen Liou

Product Director: Thais Alencar

Product Manager: Courtney Heilman

Product Assistant: Hannah Shin

Marketing Manager: Shannon Hawkins

Content Manager: Samantha Rundle

Learning Designer: Paula Dohnal

IP Analyst: Ann Hoffman

IP Project Manager: Carly Belcher

Production Service/Compositor: MPS Limited

Art Director: Sarah Cole

Text Designer: Delgado and Co.

Cover Designer: Delgado and Co.

Cover Image: Arturs Budkevics/Shutterstock.com

© 2021, 2016, 2012 Cengage Learning, Inc.

Unless otherwise noted, all content is © Cengage.

WCN: 02-300

ALL RIGHTS RESERVED. No part of this work covered by the copyright herein may be reproduced or distributed in any form or by any means, except as permitted by U.S. copyright law, without the prior written permission of the copyright owner.

For product information and technology assistance, contact us at
Cengage Customer & Sales Support, 1-800-354-9706 or
support.cengage.com.

For permission to use material from this text or product,
submit all requests online at
www.cengage.com/permissions.

Library of Congress Control Number: 2019956390

Student Edition:

ISBN: 978-0-357-36766-7

Loose-leaf Edition:

ISBN: 978-0-357-36768-1

Cengage

200 Pier 4 Boulevard
Boston, MA 02210
USA

Cengage is a leading provider of customized learning solutions with employees residing in nearly 40 different countries and sales in more than 125 countries around the world. Find your local representative at **www.cengage.com.**

Cengage products are represented in Canada by Nelson Education, Ltd.

To learn more about Cengage platforms and services, register or access your online learning solution, or purchase materials for your course, visit **www.cengage.com.**

To my husband, Hank, and my children, Emily so mee
Rose and Kathryn sun hee Rose, and my grandchildren,
Kathleen hweng jae Rose, and Wyatt LeMeune.
Thank you for your patience, love, and support.
KDB

To my dear sister, Janet Liou-Mark, for your inspirational
example of passion and perseverance. God is our
sure foundation, a rich source of salvation,
wisdom, and knowledge.
DL

Contents

<i>Preface</i>	<i>xiii</i>		
<i>Acknowledgments</i>	<i>xvi</i>		
<i>About the Authors</i>	<i>xvii</i>		
1			
Preparing to Meet Your Clients	1		
1.1 Foundation of Nutrition Counseling and Education	2	2.5 Using the Transtheoretical Model for Research and to Measure Outcomes	23
1.2 Fundamentals of Food Behavior	2	Application of the Transtheoretical Model	23
1.3 Understanding an Effective Counseling Relationship	4	2.6 Theory of Planned Behavior	24
Characteristics of Effective Nutrition Counselors	5	Application of the Theory of Planned Behavior	25
Understanding Yourself—Personality and Culture	7	2.7 Social Cognitive Theory	26
Understanding your Client	10	Application of the Social Cognitive Theory (SCT)	27
Relationship Between Helper and Client	11	2.8 Cognitive-Behavioral Therapy	27
Novice Counselor Issues	12	Cognitive Therapies	27
Key Terms	12	Behavioral Therapy	28
Review Questions	12	Application of Cognitive-Behavioral Therapy	28
Assignment—Build a Collage	13	2.9 Solution-Focused Therapy	28
References	13	2.10 Client-Centered Counseling	29
		2.11 Motivational Interviewing	29
2		Spirit of Motivational Interviewing	30
Frameworks for Understanding and Attaining Behavior Change	15	Core Counseling Skills of Motivational Interviewing: OARS	32
2.1 Introduction	16	Processes in Motivational Interviewing	33
2.2 Self-Efficacy	16	Evoking Change Talk	35
2.3 Health Belief Model	17	2.12 Integrating Motivational Interviewing with Other Behavior Change Approaches	37
Application of Health Belief Model	17	2.13 Brief Encounters Using Motivational Interviewing	37
2.4 The Transtheoretical Model (Stages of Change)	19	2.14 Summary of Behavior Change Attributes	38
Motivational Stages	19	CASE STUDY Helping Relationships	41
Processes of Change	21	Key Terms	41
Decisional Balance	23	Review Questions	41
Self-Efficacy	23	Assignment—Observation of a Nutrition Counselor	42
		Additional Resources	43
		References	43

3		Additional Resources	72
Communication Essentials	46	References	72
3.1 Nutrition Counseling Goals	47	4	
3.2 Stages of Skill Development	47	Meeting Your Client:	
3.3 Model of Communication	48	The Counseling Interview	74
3.4 Cultural Influence on Communication	48		
3.5 Guidelines for Enhancing Counseling Communication Effectiveness	48	4.1 Nutrition Counseling Models	75
Use Focuses and Intents When Formulating Responses	51	4.2 Nutrition Counseling Motivational Algorithm	75
Use Effective Nonverbal Behavior	52	4.3 Assessing Readiness	77
Harmonize Verbal and Nonverbal Behaviors	53	4.4 Nutrition Counseling Protocols: Analysis and Flow of a Counseling Interview and Counseling Session	79
Analyze Nonverbal Behavior of Your Client	54	4.5 Involving Phase	80
Communication Roadblocks	54	Greeting	80
3.6 Empathy	55	Establish Comfort	80
3.7 Basic Counseling Responses	56	Small Talk	80
Attending (Active Listening)	57	Opening—First Session	80
Reflection (Empathizing)	58	Opening—Subsequent Sessions	81
Steps in Reflecting	59	Identifying Client's Long-Term Behavior Change Objectives (General Goals)	81
Legitimation (Normalization)	61	Explain Program and Counseling Process—First Session	81
Affirmation (Respect)	61	Discuss Weight Monitoring, if Appropriate—First Session	82
Personal Support	61	Setting the Agenda—First Session	82
Partnership	62	Setting the Agenda—Subsequent Sessions	82
Mirroring (Parroting, Echoing)	62	Transitioning to the Next Phase	82
Paraphrasing (Summarizing)	62	4.6 Exploration–Education Phase	82
Giving Feedback (Immediacy)	63	Educational Activities	83
Questioning	63	Assessment—First Session	83
Useful Questions	64	Assessments—Subsequent Sessions	83
Problematic Questions	64	Giving Nonjudgmental Feedback	84
Clarifying (Probing, Prompting)	64	Eliciting Client Thoughts About the Comparison of the Assessment to the Standard	85
Noting a Discrepancy (Confrontation, Challenging)	65	Determining What's Next	85
Directing (Instructions)	65	Assessing Readiness to Make a Change	85
Advice	66	4.7 Resolving Phase	85
Allowing Silence	66	4.8 Level 1: Not Ready to Change (Precontemplative)	86
Self-Referent (Self-Disclosing and Self-Involving)	67	Raise Awareness of the Health Problem and Diet Options	87
CASE STUDY Communication Analysis of John's Interactions	68	Personalize Benefits	87
Key Terms	71		
Review Questions	71		
Assignment—Observation and Analysis of a Television Interview	71		

Ask Key Open-Ended Questions to Explore Importance of Change and Promote Change Talk	87	5.2 Design a Plan of Action	100
Summarize	87	Investigate the Physical Environment	100
Offer Professional Advice, if Appropriate	88	Examine Social Support	100
Express Support	88	Review the Cognitive Environment	100
4.9 Level 2: Unsure, Low Confidence	88	Explain Positive Coping Talk, if Necessary	100
Raise Awareness of the Benefits of Changing and Diet Options	88	Modify Goal, if Necessary	100
Ask Key Open-Ended Questions to Explore Confidence and Promote Change Talk	88	Select a Tracking Technique	101
Explore Ambivalence by Examining the Pros and Cons	89	Verbalize the Goal	101
Imagine the Future	90	Write Down the Goal	101
Explore Past Successes and Provide Feedback About Positive Behaviors and Abilities	90	5.3 Dietary Assessment	102
Encourage Support Networks	90	Step 1: Food Intake Data Collection	102
Summarize Ambivalence	90	Usual Intake Form	105
Choose a Goal, if Appropriate	90	Diet History Interview	105
4.10 Level 3—Motivated, Confident, Ready	90	Step 2: Data Analysis	107
Affirm Positive Behaviors	90	Step 3: Interpretation of Analysis	109
Closing Phase	90	5.4 Energy Determinations	111
4.11 FRAMES for Brief Interventions	91	Step 1: Determine Resting Energy Expenditure (REE)	111
4.12 Considerations for Acute Care	91	Step 2: Select a Physical Activity (PA) Factor	111
CASE STUDY Nancy: Intervention at Three Levels of Motivation	92	Step 3: Determine TEE	111
Key Terms	94	Step 4: Adjust for Weight Loss	112
Review Questions	94	5.5 Physical Assessments and Healthy Weight Standards	112
Assignment—Case Study Analysis	95	Body Mass Index	112
Additional Resources	95	Waist Circumference	113
References	95	5.6 Documentation and Charting	115
		SOAP Format	115
		CASE STUDY Nancy: Documentation at Three Levels of Motivation	117
		Adime Format	118
		5.7 Nutrition Care Process	118
		Standardized Language	120
		Step 1: Nutrition Assessment	120
		CASE STUDY Nancy: ADIME Documentation—Assessment	121
		Step 2: Nutrition Diagnosis	121
		Self-Evaluation of PES Statements	123
		Step 3: Intervention	123
		CASE STUDY Nancy: ADIME Documentation—Diagnosis With PES Statement	124
		Planning the Nutrition Intervention	124
		Implementation of the Intervention	124
5 Developing a Nutrition Care Plan: Putting It All Together	96		
5.1 Goal Setting	97		
Explain Goal Setting Basics	97		
Explore Change Options	97		
Identify a Specific Goal From a Broadly Stated Goal	98		
Define Goals	99		

5.8 Step 4: Monitoring and Evaluation (M & E)	124	Terminology	149
CASE STUDY Nancy: ADIME Documentation–Intervention	125	Individualization of Therapy	149
NCP Documentation and Charting	125	Length and Frequency of Counseling Sessions	149
CASE STUDY Nancy: ADIME Documentation–Monitoring and Evaluation	126	Perception of Quality of Care	150
Key Terms	126	Nonadherence Counselor Issues	150
Review Questions	126	CASE STUDY Mary: Busy Overweight College Student and Mother	151
Assignment—Nutritional Assessment	126	Key Terms	151
Additional Resources	129	Review Questions	152
References	129	Assignment—Food Management	
		Tool Usage	152
		Additional Resources	153
		References	154
 6		 7	
Promoting Change to Facilitate Self-Management	130	Making Behavior Change Last	156
6.1 Strategies To Promote Change	131	7.1 Social Network	157
6.2 Food Management Tools	131	Social Support	157
Meal Replacements	132	Social Disclosure	159
Detailed Menus and Meal Plans	132	Social Pressures	159
Food Lists for Weight Management	132	7.2 Stress Management	160
MyPlate or Dash Food Plan	132	Stress Management Counseling	162
Goal Setting	133	7.3 Sleep Counseling	164
6.3 Tracking	133	7.4 Mindful Eating	166
Journaling	133	7.5 Relapse Prevention	167
Journaling Alternatives	134	Immediate Determinants	167
6.4 Behavior Change Strategies	135	Covert Antecedents	169
Behavior Chain	135	Relapse Prevention Counseling	169
Cue Management (Stimulus Control)	136	7.6 Ending the Counseling Relationship	171
Countering	136	Preparation for a Conclusion	171
Reinforcement: Rewards	138	Final Session	171
Contracting	139	Handling Abrupt Endings	172
Encouragement	140	7.7 Counseling Evaluation	172
Goal Setting	140	Evaluation of Client Progress	172
Modeling	140	Goal Attainment Scale	173
Problem Solving	140	Final Client Evaluation	173
6.5 Cognitive Restructuring	141	7.8 Evaluation of Counseling Effectiveness and Skills	173
6.6 Education During Counseling	145	Client Evaluation of Counselor	173
Effective Education Strategies	145	Assessing Client's Nonverbal Behavior	173
Effective Education Language	148	Checking	173
Positive or Negative Approach	148	Counseling Checklists (Interview Guides)	173
6.7 Supporting Self-Management	149		

Charting	174	8.10 Issues Pertinent to Physical Activity Goal Setting and Action Plan Development	196
Video, Audiotape, or Observation Evaluations	174	Walking Basics	197
CASE STUDY Amanda: The Busy Sales Representative	174	CASE STUDY Officer Bill	197
Key Terms	175	Key Terms	198
Review Questions	175	Review Questions	198
Assignment—Identifying Stress	175	Assignment—Physical Activity Assessment and Counseling	198
Additional Resources	175	Additional Resources	200
References	176	References	201

8 Physical Activity 178

8.1 Physical Activity Initiatives	179
8.2 Role of Nutrition Counselor in Physical Activity Guidance	179
8.3 Physical Activity and Fitness	181
Benefits of Regular Physical Activity	181
Injury Risks Associated with Exercise	182
Exercise Myths	183
8.4 Physical Activity Goals	183
8.5 Levels of Aerobic Physical Activity	184
Moderate Physical Activity	184
Vigorous Physical Activity	184
Methods to Determine Level of Exertion	185
Muscular Strength	185
Flexibility	186
8.6 Barriers to Becoming Physically Active	187
8.7 Physical Activity Counseling Protocols	187
8.8 Assessments of Physical Activity	187
Physical Activity Status	187
Current Exercise Status	187
Physical Activity Readiness	187
Stages of Readiness to Change	189
Assessment Feedback	189
8.9 Resolving Phase Protocols	190
Level 1—Not Ready to Change	190
Level 2—Unsure About Changing	192
Level 3—Ready to Change	193
Level 4—Physically Active	194

9 Communication with Diverse Population Groups 203

9.1 Need for Cultural Competence	204
9.2 Demographics—Population Trends	204
9.3 Increased Use of Traditional Therapies	204
Health Disparities	205
Underrepresentation of Culturally and Linguistically Diverse Health Care Providers	208
Legislative, Regulatory, and Accreditation Requirements	208
9.4 Cultural Competence Models	208
Cultural Competence Continuum	209
Campinha-Bacote Model of Cultural Competence in the Delivery of Health Care Services	209
Development of Cultural Self-Awareness	209
Development of Cultural Knowledge	210
Development of Cultural Skills	211
9.5 Guidelines for Delivering Cross Cultural Interviews and Interventions	214
The LEARN Guideline	214
The 4 Cs of Culture Guideline	215
9.6 Cross-Cultural Nutrition Counseling Algorithm	215
9.7 Working with Interpreters	215
9.8 Life Span Communication and Intervention Essentials	218
Preschool-Aged Children (2 to 5 Years)	218
Intervention Strategies	218
Middle Childhood (6 to 12 Years)	219

10
Group Facilitation and Counseling **244**

Verbs	277	Review Questions	309
Types of Objectives	277	Assignment—Develop a TV Public Service Announcement	310
Cognitive Domain	278	Additional Resources	311
Affective Domain	279	References	312
Psychomotor Domain	279		
11.9 Generalizations	281		
CASE STUDY Keys to Success 4—Establish Goals and Objectives	282		
11.10 Instructional Plan	282	13 Professionalism and Final Issues	313
Key Terms	286		
Review Questions	286	13.1 Professionalism	314
Assignment—Design a Nutrition Education Intervention	286	Practice Management and Advancement	314
Additional Resources	286	13.2 Ethics	314
References	287	13.3 Client Rights	319
		Confidentiality	319
		Procedures and Goals of Counseling	319
		Qualifications and Practices of the Counselor	319
		13.4 Boundary Between Nutrition Counseling and Psychotherapy	319
		Referrals	320
		Proper Dress Attire	320
		13.5 Starting a Private Practice	322
		Define a Focus	323
		Professional Credentials and Achievements	323
		Learn and Connect	323
		Create a Business Roadmap	324
		Professional Support Systems	324
		Business Basics	324
		13.6 Marketing Basics	324
		Marketing Plan	325
		Internet Presence and Usage in the United States	325
		Social Media Marketing	325
		13.7 Telehealth and Telenutrition	327
		13.8 Self-Care	327
		Occupational Burnout	327
		CASE STUDY Interactive Personal Case Study	328
		Key Terms	329
		Review Questions	329
		Assignment—Evaluate Your Counseling Effectiveness	329
		Additional Considerations of Videotape Observations	330
12 Educational Strategies, Technology, and Evaluation	289		
12.1 Keys to Success 5—Provide Instruction Planning and Incorporate Learning Strategies	290		
Presentation	290		
Discussion	295		
Demonstration	295		
Visual Aids	295		
Action-Oriented Techniques	297		
Technology-Based Techniques	297		
Learning Domains and Strategies	298		
12.2 Keys to Success 6—Develop Appealing and Informative Mass Media Materials	300		
Developing Audio and Audiovisual Messages	301		
Developing Print Materials	301		
Application of Emotion-Based Approach	304		
12.3 Keys to Success 7—Conduct Evaluations	308		
Planning for an Evaluation	308		
Formative Evaluations	309		
Summative Evaluations	309		
CASE STUDY Presentation to Working Adults	309		
Key Terms	309		

Additional Resources	330	Preparation for Session 1	334
References	330	Session 1	335
		Session 2	336
		Session 3	336
		Session 4	336
14		Key Terms	353
Guided Counseling Experience	332	Appendix A DASH Food Plan	355
14.1 Developing a Counseling Style	333	Appendix B Body Mass Index	358
14.2 Finding Volunteer Clients	333	Appendix C Lifestyle Management Forms	359
14.3 Goals of the Guided Counseling Experience	333	Appendix D Dietary Reference Intakes (DRI)	399
Skill Goals	333	Index	403
Attitude Goals	334		
14.4 The Four Counseling Sessions	334		

Preface

Welcome to the Fourth Edition

The fourth edition of this book continues to provide a step-by-step approach guiding entry-level practitioners through the basic components of changing food behavior and improving nutritional status. Behavior change is a complex process, and there is an array of strategies to influence client knowledge, skills, and attitudes. To be effective change agents, nutrition professionals need a solid foundation of counseling and education principles, opportunities to practice new skills, and knowledge of evaluation methodologies. This book meets all of these needs in an organized, accessible, and engaging approach.

Intended Audience

This book was developed to meet the needs of health professionals who have little or no previous counseling or education experiences, but who do have a solid knowledge of the disciplines of food and nutrition. Although the book addresses the requirements of nutrition professionals seeking to become registered dietitians, the approach focuses on skill development useful to all professionals who need to develop nutrition counseling and education skills. The goal of the book is to enable entry-level practitioners to learn and use fundamental skills universal to counseling and education as a springboard on which to build and modify individual styles.

Distinguishing Features

- **Practical examples:** Concrete examples, case studies, and first-person accounts are presented representing a variety of wellness, private practice, and institutional settings.
- **Action based:** Exercises are integrated into the text to give students ample opportunity and encouragement to interact with the concepts covered in each chapter. Instructors can choose to assign the activities to be implemented individually at home or used as classroom activities. Students are encouraged to journal their responses to the exercises as a basis for classroom discussions, distance learning, or for documenting their own reflections. Instructors can assign journal entries and collect them for evaluation. Reading journal entries allows instructors to gain understanding of how students are grasping concepts. Each chapter has a culminating assignment and a case study that integrates all or most of the major topics covered throughout the chapter.
- **Evidence-based:** Science-based approaches, grounded in behavior change models and theories, found to be effective for educational and counseling interventions, are analyzed and integrated into skill development exercises.
- **Nutrition Counseling Motivational Algorithm:** To guide the process of integrating counseling theories and approaches, a motivational algorithm is presented leaning heavily on Client-Centered Counseling, Motivational Interviewing, and the Transtheoretical Model. The algorithm provides a framework for nutrition counseling students to visualize implementation of a counseling session.
- **Cultural sensitivity:** The population of the United States is increasingly heterogeneous, moving toward a plurality of ethnic, religious, and regional groups. To have effective interventions, nutrition counselors and educators need to appreciate the influence of how membership in these diverse groups greatly influences our health beliefs, behaviors, and food practices. Although a chapter is devoted to exploring diverse cultural groups, cultural influences regarding behavior and attitudes are integrated throughout the book.
- **Putting it all together—a four-week guided nutrition counseling program:** The text includes a step-by-step guide for students working with volunteer adult clients during four sessions. The objective of this section is to demonstrate how the theoretical discussions, practice activities, and nutrition tools can be integrated for an effective intervention.
- **The Nutrition Care Process (NCP):** The NCP was developed by the Academy of Nutrition and Dietetics to provide a framework for nutrition interventions. This framework is integrated throughout the text and highlighted in relevant areas.

New Edition Highlights

All chapters of the new edition have been updated to incorporate the latest professional standards, government guidelines, and research findings. In particular, resources and references were updated throughout the entire book.

Selected Chapter-by-Chapter Updates

The sequential flow of the chapters follows the needs of students to develop knowledge and skills during each step of the counseling and education process.

CHAPTER 1 Preparing to Meet Your Clients

- Recent studies regarding factors affecting food behavior were integrated throughout the chapter.

CHAPTER 2 Frameworks for Understanding and Attaining Behavior Change

- Discussion of the Transtheoretical Model has been expanded and coverage of Motivational Interviewing has also been expanded and updated to reflect Miller and Rollnick's most recent four-process model.

CHAPTER 5 Developing a Nutrition Care Plan: Putting It All Together

- The most recent Nutrition Care Process guidelines were incorporated into this chapter. Discussion of healthy eating guides was expanded including Harvard University's Healthy Eating Plate.

CHAPTER 7 Making Behavior Change Last

- Incorporating sleep hygiene in nutrition counseling has been added.

CHAPTER 8 Physical Activity

- This chapter was updated to include the 2018 Physical Activity Guidelines for Americans.
- The physical activity protocol for health practitioners (Exercise Is Medicine) developed by the American College of Sports Medicine and the American Medical Association was incorporated throughout the chapter.
- A discussion of the U.S. Olympic Athlete's Plate graphic was added to this chapter.
- The section on the benefits of physical activity was updated and expanded.

CHAPTER 9 Communication with Diverse Population Groups

- The discussion of population trends was updated and expanded.
- Culturally sensitive approaches for working with LGBTQ individuals were added.
- The cross-cultural intervention guideline, the 4 Cs of Culture, was added.

CHAPTER 11 Keys to Successful Nutrition Education Interventions

- A new lesson plan was added using constructs from the Social Cognitive Theory.

CHAPTER 12 Educational Strategies, Technology, and Evaluation

- Smartphone and web-based tracking apps were added.

CHAPTER 13 Professionalism and Final Issues

- A review of telehealth and telenutrition was added.
- The importance of self-care and ways in which to reduce the risk of occupational burnout was addressed.
- The framework of the dietetics profession as established by the Academy of Nutrition and Dietetics was updated.
- The review of social media sites was updated.

Acknowledgments

Thank you to all the reviewers and the individuals who shared their expertise and assisted in the development of the manuscript. Your insights and comments were invaluable to the fourth edition. We greatly appreciate the staff at Cengage Learning for their encouragement and tireless work shepherding us through the process. A special thanks to Samantha Rundle, Content Manager

for Health and Nutrition, and Courtney Heilman, Product Manager, Health & Nutrition. In addition, we want to acknowledge the valuable research and editing assistance of Lauren Kulik, Montclair State University graduate assistant. We would also like to thank the following reviewers for their valuable comments as we revised this edition.

Reviewers

Kaitlan Beretich
Baylor University

Kathryn Coakley
University of New Mexico

Cinda J. Catchings
Alcorn State University

Celesta Lyman
Southern Utah University

Kellie McLean
La Guardia Community College

Rebecca Miller
Montclair State University

About the Authors

Kathleen D. Bauer, PhD, RDN, is the founder and has been the director of the Nutrition Counseling Clinic at Montclair State University for more than fifteen years. She teaches both undergraduate and graduate nutrition counseling courses. Publications include book chapters and articles on cultural diversity and evaluation of nutrition counseling education methods. Her applied individual and group nutrition counseling experiences extend to faith-based and wellness programs, fitness centers, hospitals, nursing homes, and private practice.

Doreen Liou, EdD, RDN, was director of the Didactic Program in Dietetics at Montclair State University for fourteen years and spearheaded the program into its initial accreditation. She teaches both undergraduate and graduate courses in nutrition education and social marketing. Her research interests encompass qualitative and quantitative methods in addressing chronic disease risk and the applications of social psychological theories in minority population groups. Her nutrition education experiences extend to a variety of academic, community, and clinical settings.

1

Preparing to Meet Your Clients



fizkes/Shutterstock.com

Learning Objectives

- 1.1** Define nutrition counseling and nutrition education.
- 1.2** Identify and explain factors influencing food choices.
- 1.3** Describe characteristics of an effective counselor.
- 1.4** Identify factors affecting clients in a counseling relationship.
- 1.5** Evaluate oneself for strengths and weaknesses in building a counseling relationship.
- 1.6** Identify novice counselor issues.

Not only is there an art in knowing something but also a certain art in teaching it.

—CICERO

Nutrition counselors and educators provide guidance for helping individuals develop food practices consistent with the nutritional needs of their bodies. For clients, this may mean altering comfortable food patterns and longstanding beliefs and attitudes about food. Nutrition professionals work to increase knowledge, influence motivations, and guide development of skills required for dietary behavior change. This can be a challenging task. To be an effective change agent, nutrition counselors and educators need a solid understanding of the multitude of factors affecting food behaviors. We will begin this chapter by addressing these factors in order to enhance understanding of the forces influencing our clients. Then, we will explore the helping relationship and examine counselor and client concerns. Part of this examination will include cultural components. Nutrition professionals always need to be sensitive to the cultural context of their interventions from both their own cultural perspectives as well as their clients' perspectives. Some of the activities in this chapter will provide opportunities for you to explore the cultural lenses that influence your view of the world.

1.1 Foundation of Nutrition Counseling and Education

Nutrition education has been defined as the following: "Nutrition education is any combination of educational strategies, accompanied by environmental supports, designed to facilitate voluntary adoption of food choices and other food- and nutrition-related behaviors conducive to health and well-being."¹ The needs of a target community are the focus of the nutrition education process. Nutrition counselors have similar goals, but interventions are guided by the needs of individual clients. According to the Academy of Nutrition and Dietetics, **nutrition counseling** has been defined as "a supportive process, characterized by a collaborative counselor-patient/client relationship to establish food, nutrition and physical activity priorities, goals, and individualized action plans that acknowledge and foster responsibility for the process of guiding a client toward a healthy nutritional lifestyle by meeting nutritional needs and solving problems that are barriers to change."² Haney and Leibsohn³ designed a **model** of counseling to enable guidance to be effective and provided the following definition:

counseling can be defined as an interaction in which the counselor focuses on client experience, client feeling, client thought, and client behavior with intentional responses to acknowledge, to explore, or to challenge. (p. 5)

Exercise 1.1 DOVE Activity: Broadening Our Perspective (Awareness)

D—defer judgment
O—offbeat
V—vast
E—expand on other ideas

Divide into groups of three. Your instructor will select an object, such as a cup, and give you one minute to record all of the possible uses of the object. Draw a line under your list. Take about three minutes to share each other's ideas, and write the new ideas below the line. Discuss other possibilities for using the object with your group and record these in your journal. Use the DOVE technique to guide your thinking and behavior during this activity. Do not pass judgment on thoughts that cross your mind or on the suggestions of others. Allow your mind to think of a vast number of possibilities that may even be offbeat. How many more ideas occurred with sharing? Did you see possibilities from another perspective? One of the goals of counseling is to help clients see things using different lenses. What does this mean? How does this activity relate to a counseling experience? Write your thoughts in your journal and share them with your colleagues.

Source: Dairy, Food, and Nutrition Council, *Facilitating Food Choices: Leaders Manual* (Cedar Knolls, NJ: 1984).

1.2 Fundamentals of Food Behavior

The heart of nutrition education and counseling is providing support and guidance for individuals to make appropriate food choices for their needs. Therefore, understanding the myriad influences affecting food choices is fundamental to designing an intervention. Influencing factors are often intertwined and may compete with each other, leaving individuals feeling frustrated and overwhelmed when change is needed. Before we journey through methodologies for making change feel achievable, we will explore aspects of environmental, psychological, social, and physical factors affecting food choices, as depicted in Figure 1.1.

- **Sensory Appeal:** Taste is generally accepted as the most important determinant of food choices.⁴ Biological taste preferences evolve from childhood based on availability and societal norms, but research shows that preferences can be altered by experiences and age.⁵ Generally, young children favor sweeter and saltier tastes than adults, and

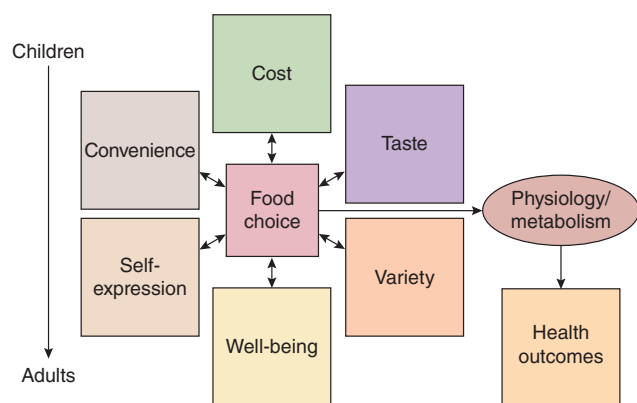


Figure 1.1 The Consumer Food Choice Model

Source: Adapted from A. Drewnowski, Taste, Genetics, and Food Choice. In *Food Selection: From Genes to Culture*, H. Anderson, J. Blundell, and M. Chiva, Eds. (Levallois-Perret, France: Danone Institute), 30. Copyright 2002.

relocating to a new environment will often change eating patterns and even favorite foods.⁶ The fact that taste preferences can be modified should be reassuring for those who want to make dietary changes.⁷ Illness may also modify food preference. Individuals going through chemotherapy may find some of their favorite foods do not taste the same, and they lose the desire to eat them.⁸

- **Habit:** Research indicates that consumers who use cues such as time of day/habit as a trigger to eat are more likely to seek healthful food choices as compared to individuals who choose to eat “whatever is there” and stop eating because the food is gone. This indicates that nutrition counselors and educators could help their clients who eat food simply because it is there to use preplanned cues to develop healthful habits.^{4,9}
- **Health Concerns:** Health can be a driving force for food choice as illustrated by public campaigns to increase intake of fruits, vegetables, and whole grains. In a 2018 national survey, nearly half of the participants indicated they have eliminated soft drinks and candy to reduce sugar intake.⁴ Consumers are more likely to respond to healthful food messages if the advice stresses the good taste of wholesome foods and convenient ways to include them in the diet. Health status of an individual, such as having loss of teeth or digestive disorders, can also affect the amount of food consumed and food choice.

Anecdote

A young man in his early twenties commenting about his food habits stated, “My friends do not say ‘let’s eat a salad together.’ If you are a guy, it is a wussy thing to do. It is kind of looked down upon if you are a guy—weak. Eat the steak, eat the greasy stuff, be a man.”*

- **Nutrition Knowledge:** Traditionally, educators and nutrition counselors perceived their roles as disseminating information. After research indicated that many clients were not responsive to simple didactic approaches, their roles expanded to include a variety of behavior change strategies. However, the value of increasing knowledge should not be devalued. Those who have higher levels of knowledge are more likely to have better quality diets and to lose more weight in weight loss programs.^{10,11}
- **Convenience and Time:** Our fast-food culture has created a demand for easy-to-prepare and tasty food. In a research survey, about half of the women surveyed expressed that they spend less than five minutes for breakfast and lunch preparation and less than twenty minutes for dinner preparation.¹² Takeout, value-added (precut, prewashed), and ready-made foods have become a cultural standard. These time-saving choices are frequently more expensive and likely to be higher in calories, fat, and sodium than home-prepared foods.¹³ Nutritional advice needs to take all these factors into consideration. Quick, easy-to-prepare, and healthful food options should be stressed.
- **Culture and Religion:** Food is an integral part of societal rituals influencing group identity. Ritual meals solidify group membership and reaffirm our relationships to others. For example, all-day eating at weekly family gatherings on Sundays or daily coffee breaks with sweet rolls are rituals that do much more than satisfy the appetite. If clients need to change participation in these rituals because of dietary restrictions, it is likely to create stress for clients, friends, and relatives. Culture also defines what is acceptable for consumption such as sweet red ants, scorpions, silk worms, or a glass of cow’s milk. Culture also defines food patterns, and in the United States, snacking is common.¹⁴ In addition, religions advocate food rituals, and may also define food taboos such as restrictions against pork for Muslims, beef for Hindus, and shellfish for Orthodox Jews. Since the 1970s the United States has been moving toward a cultural plurality, where no single racial or ethnic group is a majority. Minority groups are expected to climb to 56 percent of the total population by the

*First-person accounts from dietetic students or nutrition counselors working in the field are included throughout this book.

year 2060.¹⁵ As a result, an array of ethnic foods is available in restaurants and grocery stores and has influenced the national palate. For example, in the past, ketchup was considered a household staple; however, recent national sales of salsa now compete with ketchup and at times have surpassed ketchup sales.

- **Social Influences:** Food is often an integral part of social experiences. Sharing a meal with friends after a football game or going out for ice cream to celebrate an academic achievement helps make special experiences festive. However, foods associated with sociability are often not the most nutritious. Social eating frequently encourages increased consumption of less-nutritious foods and overconsumption.^{16,17} Eating with friends increases energy intake by 18 percent.¹⁸ However, even though regular family meals have been shown to be correlated with positive health outcomes, an analysis of societal trends indicates that family meal frequency has declined for middle school students, Asians, and adolescents.¹⁹

Anecdote

A female college student stated: "The whole society does not emphasize eating healthy. When you are eating, you have to think hard about what are the healthy foods to eat."

- **Media and Physical**

Environment: North Americans are surrounded by media messages, and most of them are encouraging consumption of high-calorie foods that are nutritionally challenged. Food distributors and manufacturers spend billions of dollars each year on advertising to persuade consumers.²⁰ Commercials can have powerful influences on the quantity and quality of food consumed.²¹ Not only do we encounter food messages repeatedly throughout the day, but we also have access to a continuous supply of unhealthy food and large portion sizes. Almost anywhere you go—drug stores, gas stations, hardware stores, schools, for example—there are opportunities to purchase unhealthy food. Even laboratory animals put in this type of environment are likely to overeat the calorie-dense food and gain excessive weight.²²

- **Economics:** An individual's residence and socioeconomic status can influence myriad factors, including accessibility to transportation, cooking facilities, refrigeration, grocery store options, and availability of healthful food choices. For those who are economically disadvantaged, meeting nutritional guidelines is a challenge.²³ Low-income households purchase significantly less fruits and vegetables than high-income households.²⁴ Low-income households with limited transportation

options spend a greater share of their food budgets at convenience, dollar, and drugstores compared with households with easier access.²⁵

- **Availability and Variety:** Individuals with increased numbers of food encounters, larger portion sizes, and variety of available choices tend to increase food intake.^{26,27} Variety of food intake is important in meeting nutritional needs, but when the assortment is excessive, such as making food selections from a buffet, overconsumption is probable. However, this finding can be useful for those trying to increase fruit and vegetable intake. A dinner plate containing broccoli, carrots, and snap peas was shown to increase intake of vegetables more than if the plate contained only one of the items.²⁸
- **Psychological:** Food behavior in response to stress varies among individuals. Some people increase consumption, whereas others claim they are feeling too stressed to eat. Certain foods have been associated with depression and mood alteration. Depressed individuals eat lower amounts of antioxidants, fruits, and vegetables and consume higher amounts of chocolate (up to 55 percent) than others.^{29,30}

An understanding of how all these factors influence our food behaviors is essential for nutrition educators and counselors. Since we are advocating lifestyle change of comfortable food patterns, we need to understand the discomfort that our clients are likely to feel as they anticipate and attempt dietary alterations. Our role is to acknowledge the challenge for our clients and to find and establish new achievable patterns for a healthier lifestyle.

1.3 Understanding an Effective Counseling Relationship

No matter what theory or behavior change model is providing the greatest influence, the relationship between counselor and client is the guiding force for change.

Exercise 1.2 Explore Influences of Food Behavior

Interview three people and ask them to recall the last meal they consumed. Inquire about the factors that influenced them to make their selections. Record your findings in your journal. Compare your findings to the discussion of influences on food choices in this chapter.

Exercise 1.3 Helper Assessment

Think of a time someone helped you, such as a friend, family member, teacher, or counselor. In your journal, write down the behaviors or characteristics the person possessed that made the interaction so effective. After reading over the characteristics of effective counselors, compare their qualities to those identified by the leading authorities. Do they differ? Share your thoughts with your colleagues.

The effect of this relationship is most often cited as the reason for success or failure of a counseling interaction. Helm and Klawitter³¹ report that successful clients identify their personal interaction with their therapist as the single most important part of treatment. To set the stage for understanding the basics of an effective counseling relationship, you will investigate the characteristics of effective nutrition counselors, explore your own personality and culture, examine the special needs and issues of a person seeking nutrition counseling, and review two phases of a helping relationship in the following sections.

Characteristics of Effective Nutrition Counselors

After thoroughly reviewing the literature in counseling, Okun³² identified seven qualities of counselors considered to be the most influential in affecting the behaviors, attitudes, and feelings of clients: knowledge, self-awareness, ethical integrity, congruence, honesty, ability to communicate, and gender and culture awareness. The following list describes these characteristics as well as those thought to be effective by nutrition counseling authorities:

- **They have a solid foundation of knowledge.** Nutrition counselors need to be knowledgeable in a vast array of subjects in the biological and social sciences as well as have an ability to apply principles in the culinary arts. Because the science and art of nutrition is a dynamic field, the foundation of knowledge requires continuous updating. Clients particularly appreciate nutrition counselors who are experienced with the problems they face.
- **Effective nutrition counselors are self-aware.** They are aware of their own beliefs, respond from an internal set of values, and as a result have a clear sense of priorities. However, they are not afraid to reexamine their values and goals. This awareness aids counselors with being honest as to why they want to be a counselor and helps them avoid using the helping relationship to fulfill their own needs.
- **They have ethical integrity.** Effective counselors value the dignity and worth of all people. Such clinicians work toward eliminating ways of thinking, speaking, and acting that reflect racism, sexism, ableism, ageism, homophobia, religious discrimination, and other negative ideologies. Ethical integrity entails many facets that are addressed in the Academy of Nutrition and Dietetics' Code of Ethics (a discussion of this topic can be found in Chapter 13).³³
- **They have congruence.** This means the counselor is unified. There are no contradictions between who the counselor is and what the counselor says, and there is consistency in verbal and nonverbal behaviors as well. (For example, if a client shared some unusual behavior, such as eating a whole cake covered with French dressing, the counselor's behavior would not be congruent if the nonverbal behavior indicated surprise but the verbal response did not.)
- **They are honest and genuine.** Such counselors appear authentic and sincere. They act human and do not live by pretenses, hiding behind phony masks, defenses, and sterile roles. Such counselors are honest and show spontaneity, congruence, openness, and willingness to disclose information about themselves when appropriate. Honest counselors are able to give effective feedback to their clients. They do not avoid difficult issues related to the client's problems and handle them tactfully.
- **They can communicate clearly.** Clinicians must be able to communicate factual information and appear to have a sincere regard for their clients. Effective nutrition counselors are able to make sensitive comments and communicate an understanding about fears concerning food and weight.
- **They have a sense of gender and cultural awareness.** This requires that counselors be aware of how their own gender and culture influence them. Effective counselors have a respect for a diversity of values that arise from their clients' cultural, social, and economic orientations.
- **They have a sense of humor.** Helping clients see the irony of their situation and laugh about their problems enriches counseling relationships. In addition, humor helps prevent clients from taking themselves and their problems too seriously.
- **They are flexible.** This means not being a perfectionist. Such counselors do not have unrealistic expectations and are willing to work at a pace their clients can handle.

- ***They are optimistic and hopeful.*** Clients want to believe that lifestyle changes are possible, and they appreciate reassurance that solutions will be found.
- ***They respect, value, care, and trust others.*** This enables counselors to show warmth and caring authentically through nonjudgmental verbal and nonverbal behavior, listening attentively, and behaving responsibly, such as returning phone calls and showing up on time. This behavior conveys the message that clients are valued and respected.
- ***They can accurately understand what people feel from their frame of reference (empathy).*** It is important for counselors to be aware of their own struggles and pain to have a frame of reference for identifying with others.

This list can appear daunting, leading one to wonder if becoming an ideal counselor is achievable. However, Egan and Reese³⁴ emphasize that there is no right way of mixing and matching the characteristics to meet client needs. They are a list of characteristics to work

Exercise 1.4 People Skills Inventory

- ☐ Do you expect the best from people? Do you assume that others will be conscientious, trustworthy, friendly, and easy to work with until they prove you wrong?
- ☐ Are you appreciative of other people's physical, mental, and emotional attributes—and do you point them out frequently?
- ☐ Are you approachable? Do you make an effort to be outgoing? Do you usually wear a pleasant expression on your face?
- ☐ Do you make the effort to remember people's names?
- ☐ Are you interested in other people—all kinds of people? Do you spend far less time talking about yourself than encouraging others to talk about themselves?
- ☐ Do you readily communicate to others your interest in their life stories?
- ☐ When someone is talking, do you give him or her 100 percent of your attention—without daydreaming, interrupting, or planning what you are going to say next?
- ☐ Are you accepting and nonjudgmental of others' choices, decisions, and behavior?
- ☐ Do you wholeheartedly rejoice in other people's good fortune as easily as you sympathize with their troubles?
- ☐ Do you refuse to become childish, temperamental, moody, inconsistent, hostile, condescending, or aggressive in your dealings with other people—even if they do?
- ☐ Are you humble? Not to be confused with false modesty, being humble is the opposite of being arrogant and egotistical.
- ☐ Do you make it a rule never to resort to put-downs, sexist or ethnic jokes, sexual innuendoes, or ridicule for the sake of a laugh?
- ☐ Are you dependable? If you make commitments, do you keep them—no matter what? If you are entrusted with a secret, do you keep it confidential—no matter what?
- ☐ Are you open-minded? Are you willing to listen to opposing points of view without becoming angry, impatient, or defensive?
- ☐ Are you able to hold onto the people and things in your life that cause you joy and let go of the people and things in your life that cause you sadness, anger, and resentment?
- ☐ Can you handle a reasonable amount of pressure and stress without losing control or falling apart?
- ☐ Are you reflective? Are you able to analyze your own feelings? If you make a mistake, are you willing to acknowledge and correct it without excuses or blaming others?
- ☐ Do you like and approve of yourself most of the time?

Affirmative answers indicate skills you possess that enhance your ability to relate to others.

Source: Adapted from Scott N, "Success Often Lies in Relating to Other People," *Dallas Morning News*, April 20, 1995, p. 14C.

toward that can be enhanced by engaging in professional self-improvement.

It is one of the most beautiful compensations of this life that no man can sincerely try to help another without helping himself.

—RALPH WALDO EMERSON

Understanding Yourself—Personality and Culture

Our personalities are one of the principal tools of the helping process. By taking an inventory of your personality characteristics, you can have a better understanding of the ones you wish to modify. Intertwined with a personality evaluation is self-examination of why you want to be a counselor. What you expect out of a counseling relationship, the way you view yourself, and the personal attitudes and values you possess can affect the direction of the counseling process. You should be aware that as a helper, your self-image is strengthened from the awareness that “I must be OK if I can help others in need.” Also, because you are put into the perceptual world of others, you remove yourself from your own issues, diminishing concern for your own problems.

Sometimes counselors seek to fulfill their own needs through the counseling relationship. Practitioners who have a need to express power and influence over others tend to be dictatorial and are less likely to be open to listening to their clients. This type of counselor expects clients to obey suggestions without questions. A counselor who is particularly needy for approval and acceptance will fear rejection. Belkin³⁵ warns that sometimes counselors try too hard to communicate the message “I want you to like me,” rather than a more effective “I am here to help you.” As a result, such counselors may be anxious to please their clients by trying to do everything for them, perhaps even doing favors. The tendency will be to gloss over and hide difficult issues because the focus is on eliciting only positive feelings from their clients. Consequently, clients will not learn new management skills, and dietary changes will not take place.

Another important component to understanding yourself so as to become a culturally competent nutrition counselor and educator is to know what constitutes your **worldview** (cultural outlook). Each culture has a unique outlook on life, what people believe and value within their group. Our worldview provides basic assumptions about the nature of reality and has both

Exercise 1.5 How Do You Rate?

Ask a close friend or family member who you supported at one time to describe what it was about your behavior that was helpful. Write these reactions down in your journal. Review the desirable characteristics for an effective counselor described in the previous section. Complete the personality inventory in Exercise 1.4, and then identify what characteristics you possess that will make you a good helper. What behaviors need improvement?

Write in your journal specific ways that you need to change to improve your helping skills.

conscious and unconscious influences. An understanding of this concept becomes clearer when we explore assumptions regarding supernatural forces, individual and nature, science and technology, and materialism. (See Table 1.1.) Kittler and Sucher³⁶ relate this unique outlook to its special meaning in the health community:

... expectations about personal and public conduct, assumptions regarding social interaction, and assessments of individual behavior are determined by this cultural outlook, or worldview. This perspective influences perceptions about health and illness as well as the role of each within the structure of society. (p. 35)

Majority American values, which are shared by most whites and to some extent other racial and ethnic groups, emphasize individuality, self-help, and control over fate. One study found 82 percent of American consumers believe they are directly responsible for their own health.³⁷ Throughout the world there are many who believe the primary influence on health and wellness are supernatural forces such as the will of God, astrological agents, or cosmic karma.

Your worldview is determined by your culture and life experiences. **Culture** is shared history, consisting of “the thoughts, communication, actions, customs, beliefs, values, and institutions of racial, ethnic, religious or societal groups.”³⁸ Possible societal groups include gender, age, sexual orientation, physical or mental ability, health, occupation, and socioeconomic status. Any individual will belong to several societal groups and acquire cultural characteristics and beliefs from each based on education and life experiences within those groups. Because each experience is unique, no two people acquire exactly the same cultural attributes. In addition,

Anecdote

My aunt died of high blood pressure. Her religious belief was that her illness was God’s will and should not be interfered with by taking medicine or changing her diet.

Table 1.1 Worldview Assumptions

Category	Assumption
Supernatural Assumptions	Supernatural assumptions include beliefs regarding God, malevolent spirits, ancestors, fate, or luck being the cause of illness. The concept of soul loss causing depression or listlessness is prevalent in many societies. In order to alleviate supernatural problems, societies have devised ceremonies or rituals.
Individual and Nature	Not all societies make a clear distinction between human life and nature as in the United States. Some societies believe that we are subjugated by nature and need to show respect for natural forces and attempt to live in harmony with nature. The dominant culture in the United States sees human beings as having higher value than nature with a need to exploit or protect it.
Technology	The citizens of the United States put great faith in technology and the scientific method. Diseases are viewed as correctable mechanistic errors that can be fixed by manipulation. Americans tend to think science can help humanity—a view not as highly held in Europe.
Materialism	Many people around the world believe that materialism dominates the worldview of Americans, that is, the need to acquire the latest and best possessions. This may have contributed to the popularity of “supersize food portions.”

Source: Jandt F. *An Introduction to Intercultural Communication: Identities in a Global Community*. 6th ed. Thousand Oaks, CA: Sage Publications, Inc.; 2009.

we are likely to migrate to and away from various cultures throughout our lives. For example, a change of job, religion, residence, or health status can alter cultural attributes. However, there are attributes that prevail and will affect the way we perceive ourselves and others.

We share a commonality with those who are most like us. For example, many North Americans appreciate a friendly, open health care professional. People from other cultures, however, may feel uncomfortable interacting with a professional on such terms and may even view this behavior as a sign of incompetence. Your food habits can also be an important component of your culture. For example, Hindus find eating beef to be abhorrent—much the way many Westerners feel about Asians consuming dog meat.

Understanding the role of **cultural values** in your life as well as in the lives of clients from cultures other than your own provides a foundation for developing cultural sensitivity. Our cultural values are the “principles or standards that members of a cultural group share in common.”³⁹ For example, in the United States, great value is placed on money, freedom, individualism,

Table 1.2 Functions of Cultural Values

• Provide a set of rules by which to govern lives.
• Serve as a basis for attitudes, beliefs, and behaviors.
• Guide actions and decisions.
• Give direction to lives and help solve common problems.
• Influence how to perceive and react to others.
• Help determine basic attitudes regarding personal, social, and philosophical issues.
• Reflect a person’s identity and provide a basis for self-evaluation.

Source: Adapted from Joan Luckmann, *Transcultural Communication in Nursing*. Belmont, CA: Delmar Cengage Learning, 1999.

independence, privacy, biomedical medicine, and physical appearance. Cultural values are the grounding forces that provide meaning, structure, and organization in our lives. (See Table 1.2.) Individuals may hold onto their values despite numerous obstacles or severe consequences. For example, Jung Chang describes in her family portrait, *Wild Swans: Three Daughters of China*, how her father actively supported Mao’s Communist takeover of China and rose to be a prominent official in the party. His devotion to the party never wavered, even during the Cultural Revolution when he was denounced, publicly humiliated with a dunce hat, and sent to a rehabilitation camp.⁴⁰

Exercise 1.6 Why Do You Want to Be a Helper?

Describe in your journal what it means to be a helper and why you want to be a helper. How does it feel when you help someone? Is it possible that you have issues related to dominance or neediness that could overshadow interactions with your clients?

Exercise 1.7 What Is Your Worldview?

Indicate on the continuum the degree to which you share the following white North American cultural values; 1 indicates not at all, and 5 represents very much.

Not at All					Very Much	
1	2	3	4	5		Personal responsibility and self-help for preventing illness.
1	2	3	4	5		Promptness, schedules, and rapid response-time dominates.
1	2	3	4	5		Future-oriented—willing to make sacrifices to obtain future goals.
1	2	3	4	5		Task-oriented—desire direct participation in your own health care.
1	2	3	4	5		Direct, honest, open dialogue is essential to effective communication.
1	2	3	4	5		Informal communication is a sign of friendliness.
1	2	3	4	5		Technology is of foremost importance in conquering illness.
1	2	3	4	5		Body and soul are separate entities.
1	2	3	4	5		Client confidentiality is of utmost importance; health care is for individuals, not families.
1	2	3	4	5		All patients deserve equal access to health care.
1	2	3	4	5		Desire to be youthful, thin, and fit.
1	2	3	4	5		Competition and independence.
1	2	3	4	5		Materialism.

Can you think of a time when your values and beliefs were in conflict with a person you were trying to associate with? What were the circumstances and results of that conflict? Write your response in your journal, and share your stories with your colleagues.

Source: Adapted from Kittler P and Sucher K, *Food and Culture in America*, 2d ed. (Belmont, CA: West/Wadsworth; 1998); and Keenan, Debra P. In the face of diversity: Modifying nutrition education delivery to meet the needs of an increasingly multicultural consumer base, *J Nutr Ed*. 1996;28:86–91.

As nutrition counselors and educators advocate for change, there needs to be an appreciation of the high degree of importance placed on certain beliefs, values, and cultural practices. You can then empathize with individuals from non-Western cultures who are experiencing confusion and problems as they try to participate in the North American health care system. Also, awareness can help prevent your personal biases, values, or problems from interfering with your ability to work with clients who are culturally different from you.

Conscious and unconscious prejudices unrelated to cultural issues that a counselor may possess could also interfere with emotional objectivity in a counseling situation. Individuals could have exaggerated dislikes of personal characteristics such as being obese, bald, aggressive, or poorly dressed. Awareness of these prejudices can help build tolerances and a commitment not to let them interfere with the counseling process through facial expressions and other nonverbal behavior.

Exercise 1.8 Explore Your Biases

You can explore possible biases that you have by going to the Harvard Project Implicit website.

- ☐ Go to a quiet environment that will allow you to complete an implicit bias evaluation.
- ☐ Go to the following website: <https://implicit.harvard.edu/implicit/takeatest.html>.
- ☐ Select a category for evaluation.
- ☐ Take the quiz for the category you selected and answer the following questions in your journal:
 1. How did the evaluation compare to your beliefs about the category you chose?
 2. Our biases are often unconscious. Considering the evaluation you just completed, comment on this statement.
 3. Do you agree with the bias evaluation you received Explain?

Exercise 1.9 What Are Your Food Habits?

Record answers to the following questions in your journal; share them with your colleagues.

- ☐ Who purchases and prepares most of the food consumed in your household?
- ☐ What is your ethnic background and religious affiliation?
- ☐ Are there foods you avoid eating for religious reasons?
- ☐ List two foods you believe are high-status items.
- ☐ What major holidays do you celebrate with your family?
- ☐ List two rules you follow when eating a meal (for example, “Don’t sing at the table”).
- ☐ Are there food habits that you find morally or ethically repugnant?
- ☐ Are you aware of any of your own food habits that others would consider repugnant?

Source: Adapted from Kittler P and Sucher K, *Food and Culture*, 4th ed. (Belmont, CA: Wadsworth/Thomson; 2004), pp. 24–25.

Understanding your Client

Just like counselors, clients come into nutrition counseling with unique personalities, cultural orientations, health care problems, and issues related to the counseling process. Each person’s personality should be recognized and appreciated. Clients have their own set of needs, expectations, concerns, and prejudices that will have an impact on the counseling relationship. In the rushed atmosphere of some institutional settings, health care workers can lose sight of the need to show respect, especially if clients have lost some of their physiological or mental functions due to illness.

From a cultural perspective, clients are diverse in many ways, belong to a number of societal groups, and have a set of unique life experiences contributing to a distinctive worldview. Getting a fresh perspective from a counselor is one of the advantages of counseling. However, the further away counselors are from their clients’ cultural orientation, the more difficult it is to understand their worldview. If this is the case, then you will need to explore your clients’ culture through books, newspapers, magazines, workshops,

movies, and cultural encounters in markets, fairs, and restaurants. Learning your clients’ beliefs about illness and the various functions and meanings of food are particularly important. While exploring **cultural groups**, you should remember that the characteristics of a group are simply generalities. You want to avoid stereotyping. Do not fall into the trap of believing that each characteristic applies to all people who appear to represent a particular group. Remember that the thoughts and behaviors of each individual develop over a lifetime and are shaped by membership in several cultural groups. For example, a homosexual male who grew up with a learning disability in Alabama with first-generation parents from Italy and lives in Chicago as an adult would have a number of social groups and life experiences influencing his communication style, view of the world, and expectations. People totally, partially, or not at all embrace the standards of a culture they appear to represent.

The circumstances that bring clients to counseling can have a major impact on their readiness for nutrition counseling. Those who have been recently diagnosed with a serious illness may be experiencing shock or a great deal of physical discomfort to deal effectively with complex dietary guidelines—or any guidelines at all. They may display a tendency toward rebelliousness, a denial of the existence of the problems, anxiety, anger, or depression. When counseling an individual with a life-threatening illness, nutrition counselors need to take into account a client’s position on the continuum of treatment and recovery.

An attitudinal investigation of young and well-educated patients with diabetes suggests a desire for a collaborative relationship with their health care providers helping them to explore options rather than

simply being told what to do.⁴¹ On the other hand, this same study identified a significant number of the elderly with diabetes who did not desire an independent self-care role. Promoting self-sufficiency is often a stated goal of nutrition counseling;⁴² however, for some clients, that goal may need to be modified. This issue has also been addressed by the expert panel for the National Institutes of Health report, *Identification, Evaluation, and Treatment of Overweight and Obesity*

in Adults,⁴³ which states that a weight maintenance program consisting of diet therapy, behavior therapy, and physical activity may need to be continued indefinitely for some individuals.

Anecdote

My client, a robust man in his youth, was a World War II veteran who took part in the invasion of Normandy. But at age seventy-five, he suffered a stroke and went into a veterans’ hospital for treatment. During his hospital stay, he asked a health care worker to help him get into bed because he wanted to go to sleep. The worker told him he would be able to go to sleep after he finished his lunch. My client became very angry and threw his lunch tray at the health care worker.

Exercise 1.10 Exploring Food Habits of Others

Interview someone from a culture different than your own. Ask that person the questions in Exercise 1.7, and record his or her answers in your journal. What did you learn from this activity? How can you personally avoid ethnocentric judgments regarding food habits?

Some clients may regard the counseling process itself as an issue. The act of seeking and receiving help can create feelings of vulnerability and incompetence. During counseling there is a presumed goal of doing something for the clients or changing them in some way. This implication of superiority can raise hostile feelings in the client because the act presumes that the helper is wiser, more competent, and more powerful than the client. This is illustrated in Helen Keller's account of her dreams about her teacher and lifelong friend, Annie Sullivan, who provided constant help for almost all aspects of Helen's existence:

[T]here are some unaccountable contradictions in my dreams. For instance, although I have the strongest, deepest affection for my teacher, yet when she appears to me in my sleep, we quarrel and fling the wildest reproaches at each other. She seizes me by the hand and drags me by main force towards I can never decide what—an abyss, a perilous mountain pass or a rushing torrent, whatever in my terror I may imagine.⁴⁴ (pp. 165–166)

To help alleviate the negative impact of such issues on the counseling process, the motive for help and the nature of the helping task as perceived by the counselor should be made clear to the receiver.

Relationship Between Helper and Client

The helping relationship is often divided into two phases: building a relationship and facilitating positive action. Building a relationship requires the development of rapport, an ability to show empathy, and the formation of a trusting relationship.⁴⁵ The goals of this phase are to learn about the nature of the problems from the client's viewpoint, explore strengths, and promote self-exploration.

The focus of the second phase of the counseling process is to help clients identify specific behaviors to alter and to design realistic behavior change strategies to facilitate positive action.⁴⁵ This means clients need to be open and honest about what they are willing and not willing to do. Lorenz et al.⁴⁶ state that in the

Exercise 1.11 Starting a Relationship

Lilly is forty-two years old, has three children, and is about twenty pounds overweight. She sought the help of a fitness and nutrition counselor, Joe, because she wants to increase her energy level and endurance. She tires quickly and feels that exercise will help her stamina.

Joe Hello, Lilly. It's great you came a little early. Let's get you right on the scale. OK, at 163 pounds, it looks to me as if you need to shed about 20 pounds. You have a ways to go but worry not—we will get it off you. Everything will be fine.

Lilly I really...

Joe I am not kidding, Lilly—don't worry. We will start slowly. What you want to do is get your BMI down, your muscle tissue up, as well as get rid of the fat. If you follow me, I'll introduce you to everyone, sign you up for an aerobics class, and start you on your routine.

Lilly Well, you see I only want...

Joe Hey, Rick, this is Lilly. She is a newcomer.

Rick Welcome, Lilly. Don't forget to take home some of our power bars—they are great for beginners who may not know how to eat right.

Joe Yeah, and be sure to bring a sports drink in with you; you will get mighty thirsty. No pain, no gain!

In groups of three, brainstorm the concerns in this scenario. Why is this helping relationship off to a bad start? What questions or comments could Joe have made that may have been more helpful?

successful Diabetes Control and Complications Trial, clients could better communicate their capabilities when health professionals articulated what problems could develop in attempting to improve blood glucose control. They found honesty more likely to occur in an environment in which clients do not feel they will be criticized when difficulties occur, but rather believe the caregivers will show understanding and work toward preparing for similar future circumstances. Nonjudgmental feedback was also an important component of the successful DASH (Dietary Approaches to Stop Hypertension) dietary trial for reducing hypertension.⁴⁷ Counselors must communicate their willingness to discover their clients' concerns and help them prioritize in a realistic manner.

In summary, it would be futile to start designing behavior change strategies when an effective relationship has not developed and you do not yet have a clear understanding of your clients' problems or an appreciation of their strengths. According to Laquatra and Danish:⁴⁵

Attending to the second part of the counseling process without the strong foundation afforded by the first part results in dealing with the problem as being separate from the client, or worse yet, providing solutions to the wrong problems. Behavior-change strategies designed under these circumstances are not likely to succeed. (p. 352)

The scenario in Exercise 1.11 illustrates a common mistake helpers make—indicating that everything will be fine. Because it has no basis for reality, the comment belittles the client's feelings. If the client actually feels reassured by the comment, the benefit is temporary because no solution to the problem has been sought. Patronizing a client is self-defeating. It indicates superiority and can automatically create negative feelings. Effective counselors provide reassurance through clarifying their roles in the counseling process, identifying possible solutions, and explaining the counseling program.

Novice Counselor Issues

New counselors typically have concerns about their competency. A counselor who feels inadequate may be reluctant to handle controversial nutrition issues, sometimes giving only partial answers and ignoring critical questions. Confidence in your ability will increase with experience.

Client: *Are high-protein diets a good way to lose weight?*

Counselor: *Some people say they lose weight using them.*

In this example, the counselor is talking like a politician—not taking a stand, trying not to offend anyone. If you are not clear about an issue, you can tell your client that it is a topic you have not thoroughly investigated and that you will review the matter. If after investigating the issue, you still do not have a clear answer, you should provide your client with what you have found out regarding the positives and negatives of the topic. The Academy of Nutrition and Dietetics Code of Ethics³³ states, “The dietetics practitioner presents reliable and substantiated information and interprets controversial information without personal bias, recognizing that legitimate differences of opinion exist.”

Another issue for novice nutrition counselors is assuming the role of expert or empathizer. Combining the two roles can contribute to an effective intervention, but a single approach is likely to hamper progress. An authority figure is impressive and appears to have all the answers. Clients blindly accept the direction of the “guru,” but little work is done to determine how to make the lifestyle changes work for them. As a result, clients revert to old eating patterns. On the other hand, the empathizer puts so much effort into focusing on client problems that the client receives little direction or information. With experience and determination, the two roles can be effectively combined.

KEY TERMS

Cultural Groups: nonexclusive groups that have a set of values in common; an individual may be part of several cultural groups at the same time.

Culture: learned patterns of thinking, feeling, and behaving that are shared by a group of people.

Cultural Values: principles or standards of a cultural group.

Models: generalized descriptions used to analyze or explain something.

Nutrition Counseling: a supportive process guiding a client toward nutritional well-being.

Nutrition Education: learning experiences aimed to promote voluntary adoption of health-promoting dietary behaviors.

Worldview: perception of the world that is biased by culture and personal experience.

REVIEW QUESTIONS

1. Define nutrition counseling and nutrition education.
2. What is generally considered the most important determinant of food choices?
3. Name and explain the seven qualities of counselors considered to be the most influential by leading authorities as identified by Okun.
4. Explain how taking on the role of helper improves the self-image of the helpee.
5. Identify and explain how seeking to fulfill two basic needs of counselors through a counseling relationship can be detrimental to the relationship.
6. Why is it important for counselors to understand their worldviews to achieve cultural sensitivity?

7. Name and explain the two phases of the helping relationship.
8. Why is indicating to a client that everything will be fine unlikely to be productive? What is a more useful approach?
9. Identify three issues for novice counselors.

ASSIGNMENT Build a Collage

The purpose of this assignment is to reflect on the aspects of your culture that have had the greatest impact on you. Part of becoming a culturally competent nutrition counselor is to understand your own beliefs, attitudes, and the forces that influenced them. This activity can help in the process of understanding the factors that have framed your values, views, and thinking patterns.

Culture is defined as “the thoughts, communication, actions, customs, beliefs, values, and institutions of racial, ethnic, religious or societal groups.”³⁸ You are a member of several cultural groups. Select pictures from print media or use your own photographs that represent cultural forces that have influenced your worldview. Attach them to a poster board. Be prepared to discuss your collage with your colleagues. Discussions of your collages are likely to lead to an appreciation for the unique stories each person possesses.

REFERENCES

- ¹I. R. Contento, *Nutrition Education: Linking Research, Theory and Practice*. Burlington, MA: Jones & Bartlett, 2016, p. 13.
- ²Academy of Nutrition and Dietetic Definition of Terms List, 2017, <http://eatrightpro.org>. Accessed April 13, 2019.
- ³J. H. Haney and J. Leibsohn, *Basic Counseling Responses*. Pacific Grove, CA: Brooks/Cole, 1999.
- ⁴International Food Information Council Foundation. 2018 Food & Health Survey. Accessed April 13, 2019.
- ⁵B. Wilson, *First Bite How We Learn to Eat*. New York: Basic Books, 2015.
- ⁶C. Sass, Yummy! Yucky! Ick! Tasty! Know what your clients like (and hate) to eat. *ADA Times*, Jan.–Feb. 2007.
- ⁷L. L. Birch, Development of food preferences. *Annual Review of Nutrition*, 1999; 19:41–62.
- ⁸J. B. Hopkinson, D. N. M. Wright, J. W. McDonald, and J. L. Corner, The prevalence of concern about weight loss and change in eating habits in people with advanced cancer. *J Pain Symp Mngmt*. 2002; 32:322–331.
- ⁹M. Reicks, D. Degeneffe, A. Rendahl, et al., Associations between eating occasion characteristics and age, gender, presence of children and BMI among U.S. adults. *J Am College Nutr*, 2014; 33:315–27.
- ¹⁰D. M. Klohe, J. H. Freeland-Graves, E. R. Anderson, et al., Nutrition knowledge is associated with greater weight loss in obese and overweight low-income mothers. *J Am Diet Assoc.*, 2006; 106:65–75.
- ¹¹C. C. Schiavon, F. G. Vieira, V. Ceccatto, et al., Nutrition education intervention for women with breast cancer: Effect on nutritional factors and oxidative stress *J Nutr Educ Behav.*, 2015; 47:2–9.
- ¹²Y. L. Chu, O. Y. Addo, C. D. Perry, et al., Time spent in home meal preparation affects energy and food group intakes among midlife women. *Appetite*, 2012; 58:438–443.
- ¹³I. Rahkovsky, Consumers balance time and money in purchasing convenience foods. USDA Economic Research Report No. (ERR-251) 2018, <https://www.ers.usda.gov/authors/ers-staff-directory/ilya-rahkovsky/>. Accessed October 26, 2018.
- ¹⁴Typical snacking behavior among consumers in the United States in 2018, <https://www.statista.com/statistics/910193/share-us-consumers-eating-behavior-snacking-meals/>. Accessed October 26, 2018.
- ¹⁵S. L. Colby and J. M. Ortman, Projections of the size and composition of the U.S. population: 2014 to 2060, Current Population Reports, P25-1143, U.S. Census Bureau, Washington, DC, 2014.
- ¹⁶D. Liou and K. Bauer, Obesity perceptions among Chinese Americans: The interface of traditional Chinese and American values. *Fd Culture Soc.*, 2010; 13:351–369.
- ¹⁷S. Chung, A. L. Ersig, and A. M. McCarthy, The influence of peers on diet and exercise among adolescents: A systematic review. *J Ped Nurs.*, 2017; 36:44–56.
- ¹⁸M. M. Hetherington, A. S. Anderson, G. N. Norton, and L. Newson, Situational effects on meal intake: A comparison of eating alone and eating with others. *Physiol Behav.*, 2006; 88:498–505.
- ¹⁹D. Neumark-Sztainer, M. Wall, J. A. Fulkerson, and N. Larson, Changes in the frequency of family meals from 1999 to 2010 in the homes of adolescents: Trends by sociodemographic characteristics. *J Adolesc Health*, 2013; 52:201–206.
- ²⁰Food advertising—Statistics & Facts, <https://www.statista.com/topics/2223/food-advertising>. Accessed April 14, 2019.
- ²¹E. Boyland and J. Halford, Television advertising and branding. Effects on eating behaviour and food preferences in children *Appetite*, 2013; 62:236–241.
- ²²M. G. Tordoff, Obesity by choice: The powerful influence of nutrient availability on nutrient intake. *Am J Physiol Regul Integr Comp Physiol.*, 2002; 282(5): R1536–R1539.
- ²³N. Darmon and A. Drewnowski, Contribution of food prices and diet cost to socioeconomic disparities in diet quality and health: A systematic review and analysis. *Nutr. Rev.*, 2015; 73:643–660.
- ²⁴USDA Economic Research Service. A closer look at declining fruit and vegetable consumption using linked data sources, <https://www.ers.usda.gov/amber-waves/2016/july/a-closer-look-at-declining-fruit-and-vegetable-consumption-using-linked-data-sources/>. Accessed April 14, 2019.
- ²⁵USDA Economic Research Service. Distance to grocery stores and vehicle access influence food spending by low-income households at convenience stores, <https://www.ers.usda.gov/amber-waves/2018/march/distance-to-grocery-stores-and-vehicle-access-influence-food-spending-by-low-income-households-at-convenience-stores/>. Accessed April 14, 2019.
- ²⁶L. Epstein, K. D. Fletcher, J. O'Neill, et al., Food characteristics, long-term habituation and energy intake. Laboratory and field studies. *Appetite*, 2013; 60:40–50.
- ²⁷D. Levitsky, S. Iyer, and C. R. Pacanowski, Number of foods available at a meal determines the amount consumed. *Eat Behav.*, 2012; 13:183–187.

- ²⁸J. Meengs, L. S. Roe, and B. J. Rolls, Vegetable variety: An effective strategy to increase vegetable intake in adults. *J Am Nutr Diet.*, 2012; 112:1211–1215.
- ²⁹M. Payne, S. E. Steck, R. R. George, and D. C. Steffens, Fruit, vegetable, and antioxidant intakes are lower in older adults with depression. *J Am Nutr Diet.*, 2012; 112:2022–2027.
- ³⁰N. Rose, S. Koperski, and B. A. Golomb, Chocolate and depressive symptoms in a cross-sectional analysis. *Arch Intern Med.*, 2010; 170(8):699–703.
- ³¹K. K. Helm and B. Klawitter, *Nutrition Therapy: Advanced Counseling Skills*. Lake Dallas, TX: Helm Seminars, 2007.
- ³²B. Okun and R. E. Kantrowitz, *Effective Helping: Interviewing and Counseling Techniques*. 8th ed. Pacific Grove, CA: Cengage Learning, 2015.
- ³³Academy of Nutrition and Dietetics. Code of Ethics for the Nutrition and Dietetics Profession 2018, <https://www.eatrightpro.org>. Accessed April 14, 2019.
- ³⁴G. Egan and R. J. Reese, *The Skilled Helper*. 11th ed. Pacific Grove, CA: Cengage, 2019.
- ³⁵G. S. Belkin, *Introduction to Counseling*. Dubuque, IA: Brown, 1988.
- ³⁶P. G. Kittler and K. P. Sucher, *Food and Culture in America*. 7th ed. Belmont, CA: Cengage Learning, 2017.
- ³⁷Yankelovich, Inc. Food for Life Study. 2006, <https://www.businesswire.com/news/home/20060328005711/en/Yankelovich-Study-Uncovers-Nutritional-Naivete-Change-Food>. Accessed April 14, 2019.
- ³⁸U.S. Department of Health and Human Services, OPHS Office of Minority Health, *National Standards for Culturally and Linguistically Appropriate Services in Health Care Final Report* (Washington, D.C.: U.S. Government Printing Office, March 2001).
- ³⁹C. Munoz and J. Luckmann, *Transcultural Communication in Health Care*. Belmont, CA: Delmar Cengage Learning, 2004.
- ⁴⁰J. Chang, *Wild Swans: Three Daughters of China*. New York: Simon & Schuster, 2003.
- ⁴¹R. M. Anderson, M. B. Donnelly, and R. F. Dedrick, Diabetes attitude scale. In B. K. Redman, ed., *Measurement Tools in Patient Education*. New York: Springer, 2002:66–73.
- ⁴²M. Berry and D. Krummel, Promoting dietary adherence. In P. Kris-Etherton and J. H. Burns, eds., *Cardiovascular Nutrition: Strategies and Tools for Disease Management and Prevention*. Chicago: American Dietetic Association, 1998:203–215.
- ⁴³National Institutes of Health (NIH) Obesity Health Initiative, *Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults*, NIH Publication No. 98-4083. Washington, D.C.: U.S. Department of Health and Human Services, 1998.
- ⁴⁴D. Herrman, *Helen Keller: A Life*. New York: Knopf, 1998.
- ⁴⁵I. Laquatra and S. J. Danish, Practitioner counseling skill in weight management. In S. Dalton, ed., *Overweight and Weight Management: The Health Professional's Guide to Understanding and Practice*. Gaithersburg, MD: Aspen, 1997:348–371.
- ⁴⁶R. A. Lorenz, J. Bubb, D. Davis, A. Jacobson, et al. Changing behavior: Practical lessons from the Diabetes Control and Complications Trial. *Diabetes Care*, 1996; 19:648–655.
- ⁴⁷M. M. Windhauser, M. A. Evans, M. L. McCullough, et al., Dietary adherence in the dietary approaches to stop hypertension trial. *J Am Diet Assoc.*, 1999; S76–S83.

2 Frameworks for Understanding and Attaining Behavior Change



Learning Objectives

- 2.1** Explain the importance of behavior change models and theories for a nutrition practitioner.
- 2.2** Describe and apply major concepts of selected behavior change theories and models.
- 2.3** Describe major components of selected theoretical approaches to counseling.
- 2.4** Differentiate counseling approaches for various durations of brief interventions.

Change and growth take place when a person has risked himself and dares to become involved with experimenting with his own life.

—HERBERT OTTO

2.1 Introduction

Historically, nutrition counselors and educators overlooked many fundamental factors affecting food behavior and attempted to change food choices by simply dispensing facts and diets. The results were often disappointing. Eventually, nutrition professionals recognized a need for a new procedure and turned to established psychotherapy counseling approaches and theoretical models stemming from food-related research and social psychology to guide nutrition interventions. During the 1980s, the focus was on behavior modification, giving way to goal setting and client-centered counseling in the 1990s. More recently, the Transtheoretical Model and Motivational Interviewing have provided guides for instituting behavior change in the health arena. An array of counseling philosophies, theories, behavior change models, and counseling approaches are currently available to deal with the complex process of changing health behaviors. Table 2.1 summarizes the usefulness of using theories and models for formulating an intervention.

The following discussion summarizes the approaches most often identified as useful for designing interventions and guiding and appraising changes in dietary behavior. Note that some of the concepts overlap among the behavior change theories, therapies, models, and approaches. We will start by discussing self-efficacy, which is a construct of several behavior change theories and is incorporated into some counseling approaches. Next, we will look at three theories that primarily focus on individual factors, such as knowledge, attitudes, beliefs, and prior experience. These include the Health Belief Model (HBM), the Transtheoretical Model (TTM), and the Theory of Planned Behavior (TPB).

Table 2.1 Benefits of Theoretical Behavior Change Theories and Models

- Present a road map for understanding health behaviors
- Highlight variables (for example, knowledge, skills) to target in an intervention
- Supply rationale for designing nutrition interventions that will influence knowledge, attitudes, and behavior
- Guide process for eliciting behavior change
- Provide tools and strategies to facilitate behavior change
- Provide outcome measures to assess effectiveness of interventions

Source: Adapted from Academy of Nutrition and Dietetics. Nutrition Counseling Evidence Analysis Project. <http://andeal.org>.

The last theory to be addressed is the Social Cognitive Theory (SCT), which does not look solely at individual traits for understanding behavior but incorporates a person's relationship with social groups and the environment. We will then turn our attention to counseling approaches frequently used to assist clients with making health behavior changes. Because Client-Centered Counseling provides guidance for establishing an effective counseling relationship, many practitioners utilize basic aspects of this approach. Then we will explore Solution-Focused Therapy. This commonly used counseling approach has not received much attention for changing dietary behavior, but it offers some intriguing useful strategies in nutrition counseling. Next, we will review Cognitive Behavioral Therapy (CBT), which has repeatedly been shown to be effective for changing health behaviors, and finally Motivational Interviewing (MI), which is widely used, especially with clients who are in the early stages of behavior change. You will observe a great deal of interplay among the theories, models, and counseling approaches.

2.2 Self-Efficacy

The concept of self-efficacy as a basic component of behavior change was developed by Albert Bandura.¹ Although sometimes considered a separate model, self-efficacy has been widely accepted and incorporated into numerous behavior change models. Bandura² defines self-efficacy as “the confidence to perform a specific behavior,” such as a belief in ability to change food patterns. Attainment of health behavior changes has been found to correlate solidly with a strong self-efficacy,³ probably because self-perception of efficacy affects individual choices, the amount of effort put into a task, views of barriers, and willingness to pursue goals when faced with obstacles. As a result, a person's confidence in his or her ability to accomplish a behavior change may be more important than actual skill.¹

After the importance of change is acknowledged, counselors and educators can help clients to feel that there is a “way out of this situation.” Clients need to believe that there are workable options that make change possible. If individuals perceive there is no solution, their discomfort may shift to defensive thinking: denial (“not really so bad”), rationalization (“didn't want to anyway”), or projection (“not my problem, but theirs”).⁴ The counselor's responsibility is to give clients hope by increasing awareness of options and assisting in setting achievable goals. Successful experiences build confidence that more complex goals can be attained. Self-efficacy can also be strengthened by pointing out

strengths, relating success stories, and expressing optimism for the future.

2.3 Health Belief Model

The Health Belief Model (HBM) proposes that cognitive factors influence an individual's decision to make and maintain a specific health behavior change.⁵ As depicted in Figure 2.1, central to making this decision, a person would need to (a) perceive personal susceptibility to a disease or condition; (b) perceive the disease or condition as having some degree of severity, such as physical or social consequences; (c) believe that there are particular benefits in taking actions that would effectively prevent or cure the disease or condition; (d) perceive no major barriers that would impede the health action; (e) be exposed to a cue to take action; and (f) have confidence in personal ability to perform the specific behavior (self-efficacy).⁶ See Table 2.2 for examples.

These beliefs interact with each other to determine a client's willingness to take action. For example, a woman who loves to eat sweets may believe that she is susceptible to getting dental cavities, but if she perceives the adverse effect (severity) on her life to be minimal, then she will not have an impetus to change. Studies have shown that a person with few overt symptoms

has lower dietary adherence.⁷ Similarly, a man may believe that eating a plant-based diet will reduce his cholesterol level (benefits), but he may feel it is too inconvenient to change his food pattern (too many barriers) or feel incapable of taking the necessary steps to make the change (low self-efficacy). Cues to action to participate in a program or seek counseling can come from a number of sources, including physical symptoms, observation of another person taking action, a media report, or advice of a physician. Counselors and clients can brainstorm together to design workable prompts to provide reminders to cue action, such as a note on the refrigerator.

Application of Health Belief Model

Using the HBM, a nutrition intervention in a community congregate food program was able to successfully increase consumption of whole grains, improve knowledge regarding whole grains, and strengthen the belief that intake of whole-grain foods would reduce risk of disease.⁸ The following is an example of the application of the HBM constructs for changing whole grain behavior in this study:

- **Perceived susceptibility and severity:** Personal risk was addressed by emphasizing increased risk for heart disease, cancer, type 2 diabetes, and constipation.

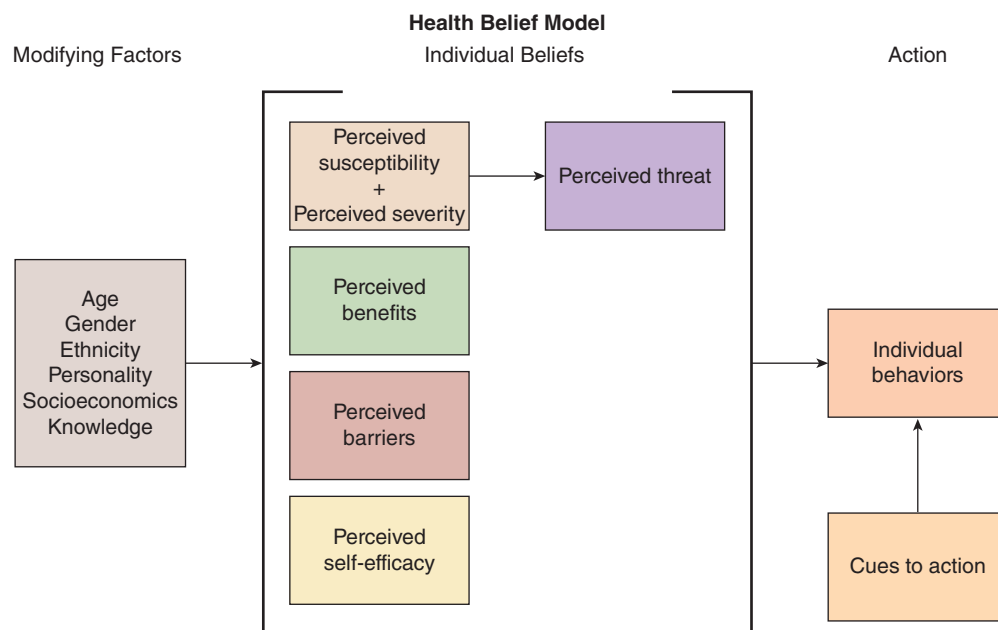


Figure 2.1 Health Belief Model Diagram

Source: Adapted from Figure 5.1, page 79, *Health Behavior and Health Education Theory, Research, and Practice*, 5th ed., Karen Glanz, Barbara K. Rimer, and K. Viswanath, Eds., San Francisco, CA: Jossey-Bass, 2015.

Table 2.2 Examples of Health Belief Model Constructs

Health Belief Construct	Sample Client Statements	Intervention Possibilities
Perceived susceptibility	"I worry about my chances of developing high blood pressure."	Educate on disease risk and link to diet, compare to an established standard. Example: "The American Heart Association recommends keeping blood pressure below 120/80 mm Hg. Your blood pressure is 148/110."
Perceived severity	"Well, I have high blood pressure, but I feel fine."	Discuss disease impact on client's physical, economic, social, and family life. Show graphs and give statistics. Clarify consequences. Example: "High blood pressure increases risk of developing a stroke."
Perceived benefits	"Eating more salads would be good for my health."	Provide role models and testimonials. Imagine the future. Specify action and benefits of the action. Example: "Eating more plant foods can be good for lowering your blood pressure."
Perceived barriers	"The foods I need to eat to lower my blood pressure are tasteless."	Explore strategies to overcome barriers such as inconvenience, cost, and unpleasant feelings. Offer incentives, assistance, and reassurance; correct misinformation and misperceptions; provide taste tests. Example: "There are good recipes to try using various herbs and salt substitutes."
Cues to action	"My roommate always has savory snacks and potato chips on the kitchen counter."	Link current symptoms to health problem, discuss media to promote health action, encourage social support, use reminder systems (sticky notes, automated cell phone messages, mailings). Example: "You could place additional snacks and nuts on the kitchen counter that are low in sodium."
Self-efficacy	"I am confident that I can prepare low sodium pasta dishes."	Provide skill training and demonstrate behaviors step-by-step. Encourage goal setting and positive reinforcement. Example: "Yes, you are on the right track."

- **Perceived benefits:** To encourage beliefs regarding benefits, lessons highlighted nutritional superiority of whole grains over refined grains.
- **Perceived barriers:** To overcome obstacles, lessons provided taste tests and education regarding labeling of whole grains.
- **Self-efficacy:** To increase confidence, lessons included demonstrations and opportunities to practice reading labels.
- **Cues to action:** Participants were given recipes, tip sheets, and educational materials to foster cues to action at home.

Exercise 2.1 Health Belief Model Activity

Match the following descriptions with the appropriate Health Belief Model construct.

- | | |
|---------------------------------|---|
| ___ 1. Perceived Benefits | a. Reading a blog about gut microbiota prompts action in eating fiber-rich foods |
| ___ 2. Perceived Susceptibility | b. Perception that a leaky gut can negatively affect a person's work productivity |
| ___ 3. Perceived Barriers | c. Individual's confidence in ability to prepare a meal with whole grains |
| ___ 4. Perceived Severity | d. Perception that eating fruits and vegetables may lower risk of inflammation |
| ___ 5. Self-Efficacy | e. Perception that eating healthfully will be costly and inconvenient |
| ___ 6. Cues to Action | f. Personal belief in the chances of developing irritable bowel disease |

2.4 The Transtheoretical Model (Stages of Change)

This model, developed by Prochaska and DiClemente, is referred to as transtheoretical because it crosses over many psychotherapy and counseling theories. This model has been used as a guide for explaining how behavior change occurs, supplying effective intervention designs and strategies, and evaluating dietary change interventions.^{9–11} The core constructs of this model include stages of change, processes of change, decisional balance, and self-efficacy.

Motivational Stages

The Transtheoretical Model (TTM), as depicted in Figure 2.2, describes behavior change as a process of

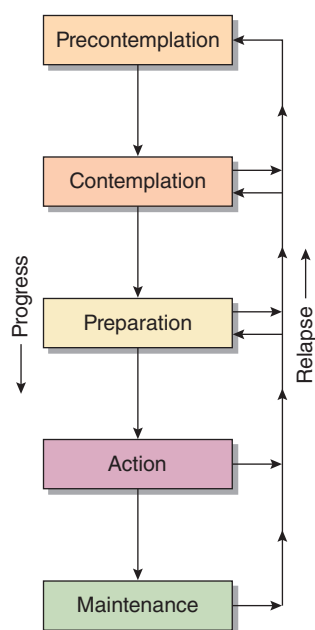


Figure 2.2 The Transtheoretical Stages of Change Model
Source: From BOYLE. *Community Nutrition in Action*, 7e. © 2017 Cengage Learning, Inc. Reproduced by permission. www.cengage.com/permissions

passing through a sequence of distinct motivational stages (that is, levels of readiness to take action). Implicit in this model is that behavior change is a process that occurs over time. For an intended behavior change, an individual can begin at any one of the motivational levels or stages:

- 1. Precontemplation:** A person in this stage has no intention of changing within the next six months and in fact resists any efforts to modify the problem behavior. The reasons for this include no awareness that a problem exists, denial of a problem, blame others for the problem, awareness of the problem but unwillingness to change, or feelings of hopelessness after attempting to change.
- 2. Contemplation:** Contemplators recognize a need to change but are in a state of ambivalence, alternating between reasons to change and reasons not to change. During an interview, a client may appear to be saying contradicting statements. For example, "I eat only good foods. I really enjoy the desserts in the lunch room at work." There is concern that the long-term health benefits of the change do not compensate for the short-term real or perceived costs.¹¹ Perceived barriers such as unacceptable tastes, economic constraints, or inconvenience are major obstacles. People can be stuck in this stage for years waiting for absolute certainty, the magic moment, or just wishing for different consequences without changing behavior. If asked, contemplators are likely to say they intend to change their undesired behavior in the next six months.
- 3. Preparation:** Preparers have identified a strong motivator, believe the advantages outweigh the disadvantages of changing, and are committed to take action in the near future (within the next thirty days). They may have taken small steps to prepare for a change, such as making an appointment with a nutrition counselor or inquiring about a walking club. A person in this stage would be willing to

Exercise 2.2 Determine Your Stage Using the Transtheoretical Model

The following is a list of health behaviors commonly accepted as desirable. Review the stages of change, and circle the corresponding number that indicates your stage.

1 = Precontemplation, 2 = Contemplation, 3 = Preparation, 4 = Action, 5 = Maintenance

<input type="checkbox"/> Floss teeth at least once a day.	1	2	3	4	5
<input type="checkbox"/> Exercise at least 90 minutes a week.	1	2	3	4	5
<input type="checkbox"/> Go to the dentist at least once a year.	1	2	3	4	5
<input type="checkbox"/> Eat at least 5 servings of fruits and vegetables a day.	1	2	3	4	5
<input type="checkbox"/> Always use a seat belt when driving.	1	2	3	4	5
<input type="checkbox"/> Refrain from smoking.	1	2	3	4	5
<input type="checkbox"/> Consume at least 1,000 milligrams of calcium every day.	1	2	3	4	5
<input type="checkbox"/> Eat at least 3 servings of whole grains every day.	1	2	3	4	5
<input type="checkbox"/> Consistently use sunscreens.	1	2	3	4	5

In your journal, write what you learned about yourself. Describe what you learned about the stages of change construct.

Source: This activity was adapted from one developed by Mary Finckenor, Adjunct Professor, Montclair State University, Montclair, New Jersey. Used with permission.

problem solve, explore goals, and take some practical steps such as trying a new recipe or tasting some new foods.

4. Action: Clients are considered to be in this stage if they have altered the target behavior to an acceptable degree for one day or up to six months and continue to work at it. Although changes have been continuous in this stage, the new behaviors should not be viewed as permanent. The most common time for relapse to occur is between three and six months in the action stage.¹²

5. Maintenance: A person in this stage has been engaging in the new behavior for more than six months and is consolidating the gains attained during previous stages.¹³ The new behavior has become a habit, and the client is confident that the behavior will persist. Prochaska and Norcross¹⁴ explain, “Perhaps most important is the sense that one is becoming more of the kind of person one wants to be.” However, the individual needs to work actively to modify the environment to maintain the changed behavior and prevent a relapse.

Anecdote

I walked into the hospital room of an obese teenage boy to give a discharge calorie-controlled, weight reduction diet. As soon as I introduced myself and explained the purpose of my visit, the boy said he didn’t want another diet. He said he tried them all before, and none of them worked. He said he was fat, his whole family was fat, and that is the way it would always be. Although I was sympathetic to his plight, I proceeded to explain the diet. During the whole explanation, he rolled his eyes, and the rest of his body language indicated that he was annoyed with me. Even at the time I knew that the encounter was not productive. I just transmitted a bunch of facts, even though he obviously was not listening. I felt it was my responsibility to go over the diet with him and chart in his record that the diet order was accomplished. Now that I have had a counseling course, I believe I would have spent the limited time I had with him dealing with his frustration and would have told him to come see me as an outpatient after discharge if he had a change of heart. Now I wouldn’t even attempt to go over the diet.*

6. Termination: Individuals in this stage are not tempted to relapse and are 100 percent confident that the behavior will continue. Prochaska et al.¹¹ suggest that the ultimate goal for many new nutrition and exercise behaviors may be a lifetime of maintenance, not termination, because “relapse temptations are so strong and prevalent.”

A review of the various stages indicates that behavior change occurs in a linear order in

which people “graduate” from one stage to the next. However, it is normal for individuals to slip back one or more stages, or even to have a relapse and then start to move forward again, progressing toward maintenance. (See Lifestyle Management Form 7.5 in Appendix C.) Figure 2.2 depicts the concept that although individuals move through a sequence of stages, there is forward and backward movement in the various stages. Smoking research, for example, has shown that people commonly recycle four times

*Numerous first-person accounts from dietetic students or nutrition counselors working in the field are included throughout this book.

through various stages before achieving long-term maintenance.⁴ The fact that change is not perfectly maintained should not be viewed in a negative light. By knowing from the outset that perfection is not realistic and lapses are to be expected, an intervention can be planned accordingly. Hopefully, by understanding that relapses are a normal occurrence in the change process, clients and counselors can maintain a realistic perspective and not become demoralized when they occur. In addition, individuals may be in different stages of change for various behaviors affecting a health outcome. For example, a person who would like to reduce cholesterol may be in an action stage for eating an ounce of nuts each day but may be only in the contemplation stage for decreasing intake of high-fat cold cuts.

Processes of Change

TTM serves as a guide to identify potentially effective messages and intervention strategies to facilitate movement through the stages to reach and remain at the maintenance stage or even the termination stage. Because the strategies clients find useful at each stage differ,¹⁵ the treatment intervention needs to be tailored to a client's stage of change. Traditionally, nutrition interventions have not taken readiness into consideration and have treated all people as if they were actively searching for ways to make behavior changes (by giving information, offering advice, and developing a diet plan). This approach has been counterproductive because most individuals with dietary problems are in a pre-action stage: precontemplation, contemplation, or preparation. In fact, giving advice to individuals who do not believe

they have a problem could make them feel beleaguered and defensive, making change even less likely to occur. In some cases, nutrition counselors may have erroneously assumed that an individual enrolled in a program is ready to take action.¹³ The person may in fact have decided to participate because of pressure from a loved one, or serious consideration may have been given to the problem, but the person is not actually ready to make a behavior change. In general, cognitive (thinking-related) and affective (feeling-related) strategies are more effective in the early stages, whereas behavioral (action-oriented) strategies in the latter stages are more likely to meet client needs.¹³ (See Table 2.3.) As individuals move through stages, intervention strategies need to be adjusted; therefore, counselors need to reassess their clients' stage periodically. Prochaska and Norcross¹⁴ have identified ten effective intervention strategies to assist clients' progress from one stage to another. These include the following:

Cognitive and Affective Experiential Processes

- **Consciousness Raising (Learn the facts):** By increasing awareness of the causes, consequences, and available treatments regarding a problem, individuals are better able to formulate a decision to make a behavior change. Increase understanding through nutrition education, observations, and personal feedback about the behavior.
- **Dramatic Relief (Experiencing and expressing feelings):** Either positive or negative emotional arousal can influence a decision to make a behavior change.

Table 2.3 Transtheoretical Model Summary

Stage	Key Intervention Objectives	Intervention Strategies
Precontemplation		
"I won't" "I can't" No intention of changing within the next six months	Increase information and awareness, emotional acceptance.	<ul style="list-style-type: none"> • Show respect, empathy, use reflection • Assess knowledge, attitudes, and beliefs • Clarify: Decision is yours • For "I won't": "I hear you saying you are not ready to make a decision to change right now. What would you like to address with me?" • For "I can't": "Do I understand you correctly that you do not think a change will work? Can you tell me more about that?" • Do not threaten the client, "You will have a heart attack." • Ask when and how the food problem conflicts with the client's values • Provide personalized benefits of changing and possible ways changes could be made, offer nutrition information including handouts and websites

(continued)

Table 2.3 Transtheoretical Model Summary (*continued*)

Stage	Key Intervention Objectives	Intervention Strategies
Contemplation		
<p>"I may"</p> <p>Aware of problem, thinking about changing behavior within the next six months</p>	<p>Encourage self-reevaluation, help develop a vision for change, increase confidence in ability to adopt recommended behaviors.</p>	<ul style="list-style-type: none"> • Validate lack of readiness • Clarify: Decision is yours • Recall an emotional reaction to a food problem. For example: "Can you recall a time when your eating issue caused a problem?" "What good things could happen if you changed your food habits?" • Explore availability of support networks • Ask how life would be different for the client and family • Explore small achievable steps to make a change • "What will happen if you do not make any changes in the way you eat?" • Give positive feedback about client's abilities • Imagine the future: "If you decided to change your food habits, what changes would you make?"
Preparation		
<p>"I will"</p> <p>Intends to change within the next thirty days, may have made small changes</p>	<p>Resolution of ambivalence, firm commitment, and development of a specific action plan</p>	<ul style="list-style-type: none"> • Discuss and resolve barriers to change • Help client to set achievable goals • Remove cues for undesirable behavior • Reinforce small changes that client may have already achieved. State that small goals lead to success. • Encourage participation in support groups • Encourage client to make public the intended change
Action		
<p>"I am"</p> <p>Actively engaged in behavior change for less than six months</p>	<p>Collaborative, tailored plans, behavioral skills training, and social support.</p>	<ul style="list-style-type: none"> • Develop or refer to education program to include self-management skills • Cultivate social support • Reinforce self-confidence • Consider reward possibilities • Remove cues for undesirable behaviors and add cues for desirable ones • Explore cognitive restructuring
Maintenance		
<p>"I still am"</p> <p>Engaged in the new behavior for at least six months</p>	<p>Collaborative, tailored revisions, problem-solving skills, and social and environmental support.</p>	<ul style="list-style-type: none"> • Identify and plan for potential difficulties (for example, maintaining dietary changes on vacation) • Collect information about local resources (for example, support groups, shopping guides) • Encourage client to "recycle" if a lapse or relapse occurs • Recommend more challenging dietary changes if client is motivated

Sources: *Journal of the Academy of Nutrition and Dietetics*, 99:683, Kristal A.R., Glanz K., Curry S.J., Patterson R.E., How can stages of change be best used in dietary interventions?; International Food Information Council Foundation. 2014 Food & Health Survey: Behavior Change Consumer Profiles. <https://www.foodinsight.org/>

Personal testimonials, media campaigns and stories, and role playing can move people emotionally.

- **Environmental Reevaluation** (Notice effect on others): Realization regarding the impact of an unhealthy behavior on others can encourage change. For example, a parent's recognition that a harmful eating practice is a bad role model for a child could stimulate a commitment to change. Empathy training, documentaries, or testimonials can encourage reevaluation of an unhealthy behavior.
- **Self-Reevaluation** (Create a new self-image): Emotional (feeling) and cognitive (reasoning) self-appraisal of how a healthy behavior fits into an individual's self-image. Values clarification activities, healthy role models, or imagery can encourage reassessment of a desired image.
- **Social Liberation** (Notice public support): Awareness of social support or advocacy for healthy opportunities encourage adopting a new behavior. Social support could include salad bars, calorie data on menus, or neighborhood walking paths.

Behavioral Processes

- **Self-Liberation** (Make a commitment): Individuals believe a new behavior can be attained and make a firm commitment to change. New Year's resolutions, public testimonies, writing a plan, and making a choice among several options can increase commitment to change.
- **Counter Conditioning** (Use substitutes): Replace unhealthy behaviors with healthier alternatives. Relaxation techniques can offset stress, advocacy can counter peer pressure, and positive self-statements can replace demoralizing self-talk.
- **Helping Relationships** (Get support): Counselors as well as a positive social network can give emotional support during attempts to change a problem behavior. Phone calls, emails, text messages, online support groups, group counseling, and a buddy system can be beneficial.
- **Reinforcement Management** (Use rewards): Rewards from self or others can be an incentive to change an unhealthy behavior. Contingency contracts, group recognition, and positive self-talk can provide positive reinforcement.
- **Stimulus Control** (Manage your environment): Change the environment to alter the prompts that encourage the unhealthy behavior and add reminders to engage in the healthy behavior. Possible strategies include removing unhealthy food from sight or possibly the home, providing easily seen tasty and healthy options, and participation in self-help groups.

Decisional Balance

In the TTM, part of the decision to move from stage to stage is based on a client's view of the pros and cons of making a behavior change. Pros are considered an individual's beliefs about the anticipated benefits of changing (for example, eating vegetables will decrease cancer risk). Cons are the costs of behavior change, which can include undesirable taste; inconvenience; and monetary, physical, or psychological costs. A shift in the balance of the two will contribute to advancing or backsliding.^{14,16} In the precontemplation stage, cons clearly outweigh pros, resulting in a decision to not change an unhealthy food habit. For individuals in this stage, pros need to increase twice as much as the cons for an individual to move to the next stage. In the contemplation stage, pros and cons tend to balance each other, reflecting the ambivalence and confusion individuals experience at this stage. As individuals progress from preparation through maintenance, the pros increase and the cons decrease.

Self-Efficacy

Research indicates that self-efficacy tends to decrease between the precontemplation and contemplation stages, most likely due to an optimistic bias possessed by individuals in the precontemplation stage. Individuals in the contemplation stage may begin to realize the challenges of adopting a new behavior, which may be seen as daunting. As individuals progress through the action and maintenance stages, self-efficacy gradually increases.¹⁷

2.5 Using the Transtheoretical Model for Research and to Measure Outcomes

The TTM has been used by researchers to design dietary behavior investigations¹⁸ and outcomes of interventions.¹⁹ By tracking movement through various stages, the TTM has given nutrition counselors a tool for measuring outcomes. For example, counselors should consider their intervention successful if a client has moved from "I do not need to make a change" to "Maybe I should give some thought to a change." This measure of success may provide encouragement to health professionals who become discouraged with the slow pace of change.²⁰

Application of the Transtheoretical Model

The Diabetes Stages of Change (DiSC) was a program administered in Canada using the Transtheoretical Model as a guide to design and implement a twelve-month intervention to improve self-care and improve diabetes control in 1,029 individuals with type 1 or type 2 diabetes.²¹ Participants were in one of three levels of pre-action motivation groups: precontemplation, contemplation, or

preparation for self-monitoring of blood glucose, healthy eating, or smoking cessation. Participants were given usual care or a tailored intervention based on their stage of change called Pathways to Change, which included personalized assessment reports, self-help manuals, newsletters, and individual phone conversations using stage-appropriate counseling strategies. Participants who received the Pathways to Change intervention as compared to usual care showed significant movement to action or maintenance stage for improving their diets by decreasing fat intake and increasing fruits and vegetables. They also had better control of their diabetes as indicated by blood glucose measures.

Exercise 2.3 Match Intervention Strategy with Stage of Change

You are hired by the corporate wellness director to design a nutrition intervention promoting intake of calcium-rich foods with the goal of consuming at least 1000 mg of calcium per day. A needs assessment of middle-aged female employees found they were in precontemplation, contemplation, and action stages. Review the following behavior change strategies below and indicate which approach best meets the needs for individuals in each stage.

1. Provide coupons, recipes, cooking demonstrations.
2. Offer a self-assessment quiz to compare individual frequency of consumption of calcium-rich foods against a standard. Supply free samples of non-dairy sources of calcium.
3. Display vivid posters and distribute flyers about the importance of calcium to reduce the risk of developing osteoporosis.

2.6 Theory of Planned Behavior

In the Theory of Planned Behavior (TPB), originally known as the Theory of Reasoned Action,^{22,23} an individual's health behavior is directly influenced by intention to engage in that behavior ("In the upcoming week, I intend to read labels for sodium content."). As indicated in Figure 2.3, three factors affecting behavioral intention include attitude, subjective norm, and perceived behavioral control.

- *Attitudes* are favorable or unfavorable evaluations about a given behavior. They are strongly influenced by our beliefs about the outcomes of our actions (outcome beliefs) and how important these outcomes are to the client (evaluations of outcomes). For example, "eating whole grain foods will increase my energy levels" and "having high energy levels is extremely important to me."
- *Subjective norm* or perceived social pressure reflects beliefs about whether significant others approve or disapprove of the behavior. Subjective norms are determined by two factors: normative beliefs and motivation to comply. Normative beliefs are the strength of our beliefs that significant people approve or disapprove of the behavior. For example, significant family members may want a client to eat less salt. Motivation to comply is the strength of our desire to comply with the opinion of significant others. For example, how much does the client want to comply with family members' recommendation to eat less salt?
- *Perceived behavioral control* is an overall measure of an individual's perceived control over the behavior, such as, "What is your overall perception of control in purchasing healthy food?" Control beliefs are influenced by presence or absence of resources

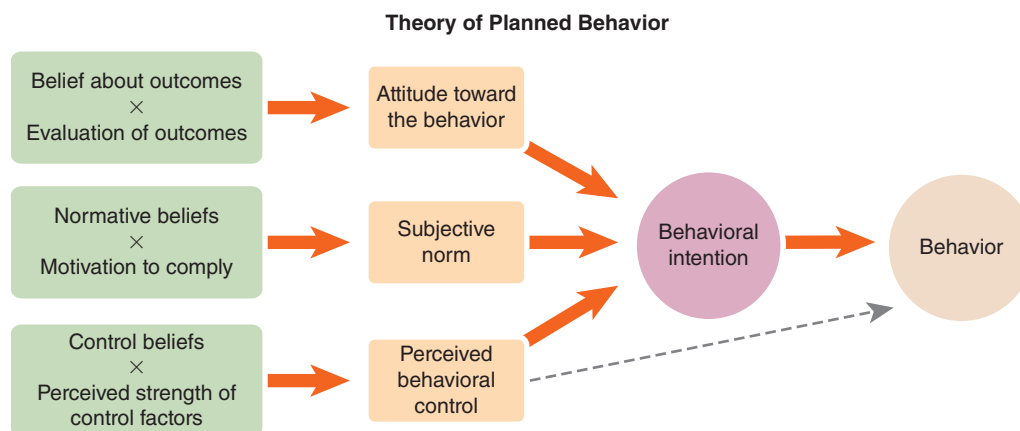


Figure 2.3 Theory of Planned Behavior Diagram

Source: Adapted from Figure 6.1, page 98, *Health Behavior and Health Education Theory, Research, and Practice*, 5th ed. Karen Glanz, Barbara K. Rimer, and K. Viswanath, Eds., San Francisco, CA: Jossey-Bass; 2015.

supporting or impeding behavioral performance. For example, a supportive resource may include family members (“My wife always cooks without salt.”) and barriers may include social or physical environmental factors (“My company provides lunch free of charge. If I want a low sodium lunch, I will not be able to eat most of the meals.”). Control factors can be internal factors, such as skills and abilities, or external factors, such as social or physical environmental factors. The impact of each resource to facilitate or impede the desired behavior is referred to as perceived power of the variable.

Application of the Theory of Planned Behavior

The TPB was used in a study to investigate the intention of dietitians to promote whole-grain foods.²⁴ Intention was measured assessing likelihood of encouraging

consumption of whole-grain foods in the next month. Attitude was evaluated by the likelihood that intake of whole-grain foods would result in health benefits for clients. Subjective normative beliefs were based on the belief that other health professionals thought they should promote whole-grain foods and their motivation to comply with health professionals’ opinions. Perceived behavioral control was evaluated by measuring barriers to promotion and assessing knowledge and self-efficacy for promotion of whole-grain foods. Results indicated that attitude for promotion of whole-grain foods was high, as well as the belief that other health professionals wanted them to promote these foods and a majority of study participants wanted to comply with this subjective normative belief. Perceived control (self-efficacy and barriers, including knowledge) was low, indicating a need for continuing education for dietitians regarding promotion of whole-grain foods.

Exercise 2.4 Evaluation of a Desired Behavior Change Using the Theory of Planned Behavior

Think of a behavior you are trying to change and analyze it according to the Theory of Planned Behavior constructs. Describe the behavior you wish to change.

Circle your responses to the questionnaire and answer the following questions in your journal.

1. What is your attitude toward the behavior?
2. How do significant others feel about your possible change?
3. Do people in your social circles approve or disapprove of your adoption of the behavior?
4. What factors could help you perform the new behavior?
5. Describe the internal and/or external barriers to adopting the new behavior.
6. Evaluate the three components affecting behavioral intention (attitude, subjective norm, and perceived behavioral control) for your intended behavior change. Choose one of the three that is the most influential and explain why.

Intention: Indicate your level of intention (motivation) to change the behavior in the upcoming week.	Very unlikely	Unlikely	Unsure	Likely	Very likely
Attitude: What is your attitude toward the behavior change?	Extreme dislike	Dislike	Neutral	Enjoyable	Very enjoyable
Attitude: What do you feel about the outcomes of the new behavior?	Extreme dislike	Dislike	Neutral	Enjoyable	Very enjoyable
Normative Beliefs: Do significant others think you should change the behavior?	Highly unlikely	Unlikely	Unsure	Likely	Highly likely
Motivation to Comply: How likely are you to comply with significant others’ opinions?	Highly unlikely	Unlikely	Unsure	Likely	Highly likely
Perceived Behavioral Control: What is your overall perception of control over the behavior?	Totally not under my control	Not under my control	Unsure	Under my control	Totally under my control

2.7 Social Cognitive Theory

The Social Cognitive Theory (SCT),² formerly known as the Social Learning Theory, provides a basis for understanding and predicting behavior, explaining the process of learning, and designing behavior change interventions. See Figure 2.4 and Table 2.4 for a summary of the components of this theory. In this theory, there is a dynamic interaction of personal factors, behavior, and the environment with a change in one capable of influencing the others (known as reciprocal determinism). For example, a change in the environment (husband develops high blood pressure) produces a change in the individual (motivation to learn about food choices to help husband) and a change in behavior (increase intake of fruits and vegetables). Key personal factors can include values and beliefs regarding outcomes of a behavior change and self-efficacy. Behavior change may occur by observing and modeling

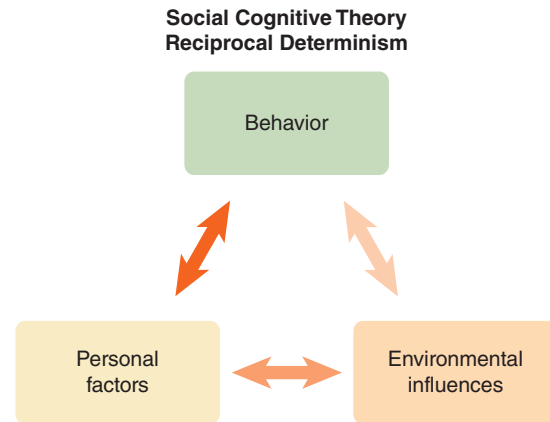


Figure 2.4 Reciprocal Determinism, Social Cognitive Theory

Source: Adapted from Pajares (2002). *Self-efficacy beliefs in academic contexts: An outline*. Retrieved April 20, 2019, from <http://des.emory.edu/mfp/efftalk.html>

Table 2.4 Social Cognitive Theory Concepts and Intervention Strategies

Concept	Definition	Implications for Interventions
Reciprocal determinism	Dynamic interaction of the person, behavior, and the environment	<ul style="list-style-type: none"> Consider multiple behavior change strategies Motivational interviewing Social support Behavioral therapy (for example, self-monitoring, stimulus control) Change environment
Outcome expectations	Beliefs about the likelihood and value of the consequences of behavioral choices	<ul style="list-style-type: none"> Provide taste tests Educate about health implications of food behavior
Self-regulation (control)	Personal regulation of goal-directed behavior or performance	<ul style="list-style-type: none"> Provide opportunities for decision-making, self-monitoring, goal setting, problem solving, and self-reward Stimulus control
Behavioral capacity	Knowledge and skill to perform a given behavior	<ul style="list-style-type: none"> Provide comprehensive education, such as cooking classes Show clients how to properly shop to meet their personal nutritional goals
Expectations	A person's beliefs about the likely outcomes of a behavior	<ul style="list-style-type: none"> Motivational interviewing Model positive outcomes of diet and exercise
Self-efficacy	Beliefs about personal ability to perform behaviors that lead to desired outcomes	<ul style="list-style-type: none"> Skill development training and demonstrations Small, incremental goals and behavioral contracting Social modeling Verbal persuasion, encouragement Improving physical and emotional states

(continued)

Table 2.4 Social Cognitive Theory Concepts and Intervention Strategies (*continued*)

Concept	Definition	Implications for Interventions
Observational learning	Behavior acquisition that occurs by watching the actions and outcomes of others' behavior, and media influences	<ul style="list-style-type: none"> • Demonstrations • Provide credible role models, such as teen celebrities who practice good health behaviors • Group problem-solving session
Reinforcement	Responses to a person's behavior that increase the likelihood of its recurrence	<ul style="list-style-type: none"> • Affirm accomplishments • Encourage self-initiated rewards and incentives • Offer gift certificates or coupons
Facilitation	Providing tools, resources, or environmental changes that make new behaviors easier to perform	<ul style="list-style-type: none"> • Alter environment • Provide food, equipment, and transportation

Source: Adapted from Baranowski T., Parcel G.S. *How Individuals, Environments, and Health Behavior Interact: Social Learning Theory, in Health Behavior and Health Education-Theory, Research, and Practice*, 3rd ed. K. Glanz, F. M. Lewis, and B. K. Rimer, eds. (San Francisco: Jossey-Bass; 2002) Copyright 2002 by Jossey-Bass, Inc., Publishers. Used with permission.

behaviors and using self-regulating behavior change techniques such as journaling or goal setting. Environmental changes may include buying new cooking equipment or altering types of food available in the home.

Application of the Social Cognitive Theory (SCT)

A guided goal-setting intervention called EatFit using computer technology with middle school adolescents in various school and community settings used constructs of the SCT to improve eating and fitness choices.^{25,26} This program was developed by the Expanded Food and Nutrition Education Program administered by the University of California, Davis, and received a Dannon Institute Award of Excellence in Community Nutrition. This intervention started with students selecting one of six possible dietary goals and one of four physical activity options. These goals were reinforced through nine experiential lessons that focused on a variety of healthy behaviors. Many of the SCT constructs were used in the intervention, but the three guiding constructs included the following:

- Self-efficacy was enhanced by many skill-building activities, such as reading food labels, verbal encouragement, and utilization of social modeling by interviewing their parents about goal-setting experiences.
- Self-regulation was implemented by self-assessments.
- Outcome expectancies were addressed by matching goals with adolescent desired outcomes predetermined by focus group sessions with adolescents before the onset of the intervention. These outcome expectancies included improved appearance, increased energy, and increased independence.

Exercise 2.5 Using Social Cognitive Constructs

Interview an individual in your social circle regarding an experience with goal setting. How did the process work out for your friend or relative? What barriers and hurdles needed to be overcome? Write your answers in your journal.

2.8 Cognitive-Behavioral Therapy

Cognitive-behavioral therapy (CBT) incorporates components of cognitive therapies and behavior therapy and includes a wide range of treatment approaches.²⁷ Both are based on the assumption that behavior is learned, and by altering the environment or internal factors, new behavior patterns develop. Many therapists use a combination of the two therapies and refer to themselves as cognitive-behavioral therapists, even if they rely more on one than on the other. An Academy of Nutrition and Dietetics expert panel analysis of the usefulness of nutrition counseling theoretical approaches for changing health and food behavior gave CBT high marks.²⁸ The following provides a discussion of each approach.

Cognitive Therapies

Leaders in this field include Albert Ellis, who developed *rational emotive behavior therapy* (REBT)^{29,30}; Aaron T. Beck, who developed *cognitive therapy* (CT)^{31,32}; and Donald Meichenbaum,³³ who developed *cognitive-behavior modification*. The premise of this approach is that negative

self-talk and irrational ideas are self-defeating learned behaviors and the most frequent source of people's emotional problems. Clients learn to distinguish between thoughts and feelings, become aware of ways in which their thoughts influence feelings, critically analyze the validity of their thoughts, and develop skills to interrupt and change harmful thinking.³⁴ Clients are taught that harmful self-monologues should be identified, eliminated, and replaced with productive self-talk. By influencing a person's pattern of thinking, the person's feelings and actions are modified. An example of an individual with a high cholesterol level using negative self-talk and creating an emotional turmoil for herself would be, "I am a fool for eating that cheesecake. I have no self-control. I'll just die of a heart attack." This could be changed into better coping self-talk: "I am learning how to handle these situations. Next time I will ask for a small taste. I am on the road to a healthier lifestyle."

Cognitive therapists have developed a number of techniques to improve positive feelings and help problem-solving ability. These include relaxation training and therapy, mental imagery, thought stopping, meditation, biofeedback, stress management, social support, cognitive restructuring, and systematic desensitization. See Chapter 6 for elaboration on several of the strategies.

Behavioral Therapy

Behavioral counseling evolved from behavioral theories developed by Ivan Pavlov, B. F. Skinner, Joseph Wolpe, Edward Thorndike, and Albert Bandura.^{35,36} The premise of this type of counseling is that many behaviors are learned, so it is possible to learn new ones. The focus is not on maintaining willpower but on creating an environment conducive to acquiring new behaviors. Three approaches to learning form the basis for behavior modification:

1. Classical conditioning focuses on antecedents (stimuli, cues) that affect food behavior. For example, seeing or smelling food, watching television, studying, or experiencing boredom may be a stimulus to eat. In nutrition counseling, clients may be encouraged to identify and eliminate cues, such as removing the cookie jar from the kitchen counter.

- 2. Operant conditioning** is based on the law of effect, which states that behaviors can be changed by their positive or negative effect. In nutrition counseling, generally a positive approach to conditioning is applied, such as a reward for obtaining a goal. The change in diet itself can be the reward, as in the alleviation of constipation by an increased intake of fluids and fiber.
- 3. Modeling** is observational learning, such as learning by watching a video or demonstration, observing an associate, or hearing a success story.

Counseling strategies that incorporate several of these approaches include goal setting, self-monitoring, and relapse prevention. See Chapter 6 for explanations and implementations of these strategies.

Anecdote

In the cardiac rehabilitation center where I worked, there was a client whose quality of life was severely affected by his weight. He was working as a security guard and had difficulty climbing steps or walking any reasonable distance because of his weight and his need to lug an oxygen tank. After several months of trying a variety of intervention strategies, I asked him whether he had ever been on a diet that worked. He said the only time he lost weight was when he cut bread out of his diet. We set "no more bread" as a goal, and that was the beginning of a successful weight loss program that allowed grains in other forms, such as cereal, pasta, and rice.

Application of Cognitive-Behavioral Therapy

Cognitive-behavior (CB) strategies were used in a twelve-week study to help seventy-nine subjects who had metabolic syndrome to follow a Mediterranean diet.³⁷ The CB strategies included anger management, problem solving, stimulus control, impulsivity control, cognitive restructuring, stress management, and social support. As compared to the control group, the intervention group decreased

waist circumference, improved triglyceride levels, and adhered to a Mediterranean diet.

2.9 Solution-Focused Therapy

Insoo Kim Berg developed solution-focused therapy, and Steve de Shazer³⁸ brought the topic to international attention. Solution-focused therapists work with their clients to concentrate on solutions that have worked for them in the past and identify strengths to be expanded on and used as resources. Focus of sessions is not on discovering and solving problems but may well be an exception to the normal course of action—that is, the one time the client was able to positively cope. By investigating the accomplishment, no matter how small, adaptive strategies are likely to emerge. For example, a middle-aged executive who complains that business lunches and dinners are a frequent difficulty would be asked to think of an occasion when healthy food was consumed at one of these meals. After identifying the skills the executive used to make the meal a healthy experience, the

Exercise 2.6 Focus on Continuing

Think about what occurs in your life (such as relationships, habits, and activities) that you would like to continue to happen. Record two of these in your journal and identify what skills you have that facilitate these situations to exist.

Source: de Shazer S., *Keys to Solution in Brief Therapy* (New York: Norton; 1985).

nutrition counselor would focus on helping to replicate and expand those skills. The aim is for clients to use solution-oriented language—to speak about what they can do differently, what resources they possess, and what they have done in the past that worked. Language (solution-talk) provides the guide in solution-focused therapy. Examples of questions a solution-focused counselor may ask include the following:

- What can I do that would be helpful to you?
- Was there a time when you ate a whole-grain food?
- When was the last time you ate fruit?
- Has a family member or friend ever encouraged you to eat low-sodium foods?

2.10 Client-Centered Counseling

Carl Rogers was the founder of client-centered counseling, also referred to as “nondirective” or “person-centered.”³⁹ The basic assumption in this theory of counseling is that humans are basically rational, socialized, and realistic, and that there is an inherent tendency to strive toward growth, self-actualization, and self-direction. Clients actively participate in clarifying needs and exploring potential solutions.⁴⁰ They realize their potential for growth in an environment of unconditional positive self-regard. Counselors help develop this environment by totally accepting clients without passing judgments on their thoughts, behavior, or physique. This approach includes respecting clients, regardless of whether they have followed medical and counseling advice.

Total acceptance needs to be communicated both verbally and nonverbally for a level of trust to develop in which clients feel comfortable to express their thoughts freely. This portion of the theory has special meaning for nutrition counselors. A study of nutrition professionals’ perceptions and attitudes toward overweight clients indicates a need for training in sensitivity and empathy.⁴¹ Another important component of this approach for a

nutrition counselor is the underlying assumption that simply listening to information cannot help a client. In client-centered therapy, clients discover within themselves the capacity to use the relationship to change and grow, thereby promoting wellness and independence. Listening to a client’s story has been compared to the role of a pharmacologic agent, meaning there is great value in developing an open and trusting relationship with a client.⁴² Nutrition counselors should not lose sight of the fact that the educational component of dietary therapy

has been shown to be extremely valuable.⁴³ However, person-centered theory of counseling can help guide nutrition counselors by stressing the importance of respect and acceptance for developing a counseling relationship.

Anecdote

When I started working for the WIC Program, I worried that I might have trouble totally accepting an unmarried client who was pregnant or had a baby. I enjoyed working with my WIC clients and they taught me to move past my biases.

2.11 Motivational Interviewing

A major factor for backsliding on the readiness continuum is lack of motivation (that is, eagerness to change). Motivational interviewing (MI) is an approach to counseling that integrates client-centered counseling and complements the Transtheoretical Model (TTM) because it entails a focus on strategies to help motivate clients to build commitment to make a behavior change and move toward the action stage. Miller and Rollnick,⁴ founders of MI, provide the following definition: “a collaborative conversation style for strengthening a person’s own motivation and commitment to change” (p. 12). As compared to client-centered counseling, MI is more focused and goal directed. As compared to the TTM, MI is not a comprehensive theory of change.

In MI, motivation is not viewed as a personality trait or a defense mechanism but is considered a state of readiness to change that can alter and be influenced by others. Since counselors can impact motivation, to do so is considered an inherent part of their intervention responsibility. MI is particularly useful in the early stages of behavior change when there is a great deal of ambivalence about making a decision to change.⁴⁴ If a client has clearly indicated a desire to change behavior, spending precious counseling time exploring ambivalence would probably be frustrating and as a result counterproductive.

MI works to cultivate a client’s natural motivation for change (intrinsic).⁴ Motivation can come from coerced external forces (“Lose weight or you can’t be in my wedding.”) or intrinsic (internal) due to specific values (“I want to be able to be a good role model for

Table 2.5 Overview of What Is Motivational

1. Knowledge of consequences
2. Self-efficacy
3. A perception that a course of action has been chosen freely
4. Self-analysis (giving arguments for change)
5. Recognition of a discrepancy between present condition and desirable state of being
6. Social support
7. Feelings accepted

my children.”).⁴⁵ Even if perceived self-efficacy and competence are the same, if motivation originates from internal beliefs and values, there will be enhanced performance, persistence, and creativity to accomplish the task. An overview of factors usually found to be motivational can be found in Table 2.5.

Spirit of Motivational Interviewing

The communication style of the counselor greatly influences the outcomes of a counseling session. In the third edition of Millner and Rollnick’s book, *Motivational Interviewing*, less emphasis was placed on techniques and more attention was put on the underlying spirit of MI. Inherent in the spirit is the need for counselors to resist the righting reflex. Counselors may want to make things right because of a desire to help others lead healthier lives. If a client is ambivalent about change, he or she has a good argument for both changing and not changing. Your natural reaction may be to “right off the bat” set things straight and provide all the reasons for changing an established food pattern. For example, a counselor may tell an ambivalent client, “You should eat breakfast. You will have more energy throughout the day, be more focused in your work and have better control of your appetite all day. Successful dieters typically eat breakfast.” This is good advice, and when and how to give advice will be reviewed in Chapter 3. However, an ambivalent client is likely to respond with all the reasons the good advice will not work. This scenario is not likely to produce a good outcome. If your client is giving arguments for not changing, your interaction is building commitment to *not* change. More arguments for change on your part will likely interfere with the counseling relationship. You and your client will feel as if you are wrestling. Addressing the interrelated elements of the spirit of MI will help you achieve

the type of interaction with clients that encourages behavior change. These include partnership, acceptance, compassion, and evocation.⁴⁶

- **Partnership:** A collaborative approach in the search for ways to achieve behavior change is essential for the motivational interviewing process. The counseling experience is described as a dance rather than a wrestling match. The expertise of both the counselor and the client is respected. The counselor brings a wealth of knowledge and experience, and the client is the expert on past experiences, influencing pressures, and personal beliefs and values. The counselor appears curious during interactions with a client while exploring various angles of behavior change.
- **Acceptance:** Components of acceptance include absolute worth, affirmation, autonomy, and accurate empathy. Absolute worth refers to understanding that everyone’s dignity is the same, thereby creating a counseling relationship in which clients are more likely to be open and honest regarding their issues. Affirmation is pointing out specific skills a client already possesses, giving a confidence boost that behavior change is possible. Autonomy recognizes that decisions to change always need to come from the client. The counselor creates an atmosphere where clients understand that they are not reacting to the force of any other person (such as counselor, parent, or doctor) but have chosen to make changes based on their own beliefs and values. Counselors demonstrate accurate empathy by taking an active interest in their clients and attempting to understand their perspective. The underlying assumption of expressing empathy is acceptance, and acceptance facilitates change. This does not mean that a counselor has the same perspective or would have made similar choices. However, basic acceptance (“You are OK”) creates an environment for change.⁴ A message of “You are *not* OK” creates resistance to change. In MI, clients are invited to explore conflicts. Unless a counselor communicates with empathy, clients are not likely to feel safe revealing discrepancies between their behavior and their beliefs and values. Empathy responses are further explored in Chapter 3.
- **Compassion:** This component of the spirit of MI involves genuine concern for the suffering of others. Clients feel worthy when counselors value their well-being. If a counselor is focusing on self-gain such as feeling the need to have a client sign up for additional sessions, the counselor is not likely to appear genuine.

Table 2.6 Possible Affirmations to Use With Clients

Accepting	Committed	Flexible	Persevering	Stubborn
Active	Competent	Focused	Persistent	Thankful
Adaptable	Concerned	Forgiving	Positive	Thorough
Adventuresome	Confident	Forward-looking	Powerful	Thoughtful
Affectionate	Considerate	Free	Prayerful	Tough
Affirmative	Courageous	Happy	Quick	Trusting
Alert	Creative	Healthy	Reasonable	Trustworthy
Alive	Decisive	Hopeful	Receptive	Truthful
Ambitious	Dedicated	Imaginative	Relaxed	Understanding
Anchored	Determined	Ingenious	Reliable	Unique
Assertive	Die-hard	Intelligent	Resourceful	Unstoppable
Assured	Diligent	Knowledgeable	Responsible	Vigorous
Attentive	Doer	Loving	Sensible	Visionary
Bold	Eager	Mature	Skillful	Whole
Brave	Earnest	Open	Solid	Willing
Bright	Effective	Optimistic	Spiritual	Winning
Capable	Energetic	Orderly	Stable	Wise
Careful	Experienced	Organized	Steady	Worthy
Cheerful	Faithful	Patient	Straight	Zealous
Clever	Fearless	Perceptive	Strong	Zestful

"Some Characteristics of Successful Changes" is in the public domain and may be reproduced and adapted without further permission. This list, compiled by Shelby Steem, is from Miller, W.R. (Ed.). (2004). *Combined behavioral intervention: A clinical research guide for therapists treating individuals with alcohol abuse and dependence* (COMBINE Monograph Series, Vol. 1). Bethesda, MD: National Institute on Alcohol Abuse and Alcoholism.

- Evocation:** In MI there is a basic assumption that individuals have an intrinsic desire to do what is truly important to them, and the counselor's responsibility is to facilitate clients to evoke that motivation (evocation) and to bring about change. Spending counseling time trying to convince a client to change or too much time educating a client will not likely lead to clients talking themselves into changing.

Exercise 2.7 Practice Formulating an Affirmation

Review the characteristics of successful changers in Table 2.6. Work with a colleague. Ask the partner to tell you a story about a time when he or she was successful. As the counselor your body language and tone of voice should indicate interest and curiosity. When your colleague has finished the story, you should voice an affirmation. The affirmation should begin with *you*, not *I*. For example, "You are someone who is..." or "You value..."

In your journal, describe your experience with formulating an affirmation.

Source: Adapted from an exercise described in *Building Motivational Interviewing Skills*, 2nd ed., 2018, by David B. Rosengren.

Core Counseling Skills of Motivational Interviewing: OARS

MI relies on basic counseling skills, such as those found in Table 2.7, to encourage clients to make a decision to change. Four skills are found to be the most useful for MI and can be remembered with the acronym OARS: open-ended questions, affirmations, reflective listening, and summaries.

- **Open-ended questions:** Open-ended questions are used to explore and gather information from the client's perspective, usually begin with the words *what*, *how*, or *tell me*, and tend to elicit change talk. They are questions that are not likely to be answered with a yes or no or a few words. To use these effectively, your approach must communicate curiosity, concern, and respect. You should not appear to be conducting an inquisition to gather information against your client. These types of questions are covered in more detail in Chapter 3, but the following have been found to be particularly useful for MI:
 - ❑ Ask about the pros and the cons of the client's present eating pattern and the contemplated change.

Table 2.7 General Motivational Interviewing Counseling Strategies

- Encourage clients to make their own appraisals of the benefits and losses of an intended change.
- Do not rush clients into decision-making.
- Describe what other clients have done in similar situations.
- Give well-timed advice emphasizing that the client is the best judge of what can work.
- Provide information in a neutral, non-personal manner.
- Do not tell clients how they should feel about a medical or dietary assessment.
- Present choices.
- Clarify goals.
- Failure to reach a decision to change is not a failed consultation.
- Make sure clients understand that resolutions to change break down.
- Expect commitment to change to fluctuate, and empathize with the client's predicament.

- ❑ Ask about extremes related to the problem. For example, "What worries you the most?"
- ❑ Ask the client to envision the future after the change has been accomplished. "How would life be different after this change?"
- ❑ Ask about priorities in life (that is, what is most important to the client). Then ask how the contemplated behavior change fits into the hierarchy.
- **Affirmations:** Affirmations recognize client efforts and strengths and provide another source of motivation. Pointing out a job well done or persistence in the face of numerous obstacles reminds clients that they possess inner qualities that make behavior change possible. Rosengren⁴⁷ suggests that affirmations should focus on specific behaviors, avoid use of the word *I*, and highlight nonproblem areas. For example, "You are providing a healthy food environment in your home," rather than, "I am happy you decided not to buy soda anymore." See Table 2.6 for words listing characteristics of people who are successful changers and can assist you in formulating an affirmation. Also, affirmations can come from your clients by asking them to describe their strengths, past successes, and best efforts.
- **Reflective listening:** Reflective listening is a key skill in MI and entails using basic listening skills, interpreting the heart of your client's message, and reflecting the interpretation back to your client. By acting as a mirror and reflecting back your understanding of the intent or your interpretation of the underlying meaning, clients are encouraged to keep talking. This show of interest is an expression of empathy, creating an environment for self-exploration about the challenges of making a behavior change. You also have the opportunity to select what you would like to reinforce. The following dialogue illustrates a nutrition counselor listening reflectively and attempting to identify the underlying meaning of a client's statements:
- **Summaries:** Summaries are done periodically throughout an MI session to help organize thoughts, reinforce change talk, clarify discrepancies, provide links during the session, or transition to a new topic. The technique will be covered at greater length in Chapter 3.

Client: *Everyone is getting on my back about my cholesterol level—my wife, my doctor, my brother. I guess I have to do something about my diet.*

Counselor: *You're feeling harassed that other people are pushing you to change the way you eat.*

Client: *I suppose they're right, but I feel fine.*

Counselor: *You're worried about the future.*

Client: *Yeah. I have a lot of responsibilities. I have two children, and I want to be around to take care of them, see them grow up, and get married. But it doesn't thrill me to give up meatballs and pizza.*

Counselor: *You're wondering about what food habits you are willing to change.*

Client: *You know, I wouldn't mind eating more fish. I've heard that is a good food to eat to lower cholesterol levels. What do you think about oatmeal?*

Note that the formulation of a response is an active process. You must decide what to reflect and what to ignore. In this dialogue example, the counselor chose to respond to the client's statement "I suppose they're right" rather than "I feel fine." The counselor guessed that if the client thought all those others were right, then he must be worried about his health. If the counselor had chosen to reflect on the feeling-fine part of the client's second statement, what would have happened? We can only guess, but it doesn't seem likely that a client-initiated discussion of diet changes would have occurred so quickly. To respond reflectively is particularly useful after asking an open-ended question when you are trying to better understand your client's story. Reflective responses are also reviewed in Chapter 3.

The development of reflective listening skills can be a complex task for novice counselors.⁴⁸ If this is a skill you decide to develop, explore the motivational interviewing resources at the end of this chapter and consider attending motivational interviewing workshops.

Processes in Motivational Interviewing

In the past Miller and Rollnick provided phases and guiding principles to help practitioners to implement motivational interviewing. In their third edition of *Motivational Interviewing*, they describe four broad processes: engaging, focusing, evoking, and planning to provide structure for using MI. Although these steps appear to be linear, they are not distinct processes. An adept counselor will move back or forward as needed.

- **Engaging:** Miller and Rollnick⁴ define engaging as "the process of establishing a mutually trusting and respectful helping relationship" (p. 40). This is accomplished by showing warmth, appearing curious, and using nonthreatening, open-ended questions. The counselor listens carefully to understand the client's story and uses reflective listening to demonstrate that what the client has to say is important

to the counselor. During the engaging process, the reason for the client's visit should be established, the counselor should provide an overview of what to expect, and the counselor should ask permission to explore the client's thoughts and feelings about a possible change, such as, "Is it OK if we talk about possible food changes to help lower your high cholesterol levels today?"⁴⁶

- **Focusing:** In the second process, the goal is to develop a clear direction that allows development of achievable goals. The counselor invites the client to focus on a topic for the session. For a new diagnosis, the client may have no idea where to begin, and in that case the counselor should offer several options. The following questions can help select a focus:

"Which of the options would you like to work on first?"

"You have mentioned several concerns this afternoon, which one would you like to cover today?"

- **Evoking:** Once there is a focus on a particular change, the counselor elicits the client's ideas and feelings about why and how the change can occur. Counselors assess readiness to change, explore ambivalence if there is not a clear commitment to change, and evoke language from the client about change. When exploring ambivalence, client responses usually fall into two categories: *change talk* or *sustain talk*. "Change talk is any self-expressed language that is an argument for change"⁴ (p. 159). Early stages of change talk often fall into the category of preparatory and can be remembered with the acronym DARN, referring to desire, ability, reasons, and need statements. These statements indicate the client is thinking about a change but is not making a solid commitment. See Table 2.8. Mobilizing change talk statements clearly expresses or implies action to change behavior. These statements indicate that the client is resolving ambivalence and can be remembered with the acronym CATS, referring to commitment, activation, and taking steps. Research has shown that the type and amount of change talk a client engages in predicts whether a client will make the behavior change. Furthermore, research also shows that counselor behavior influences change talk.⁴⁷

Sustain talk is about talking ourselves into continuing the current behavior, and change is unlikely to occur. Sustain talk parallels change talk as when a client expresses a desire, ability, reason, or

Table 2.8 Categories of Change Talk

Preparatory Change Talk (DARN): Client expresses motivations for change without stating or implying specific intent or commitment to make a change.

Desire: Statements regarding preference for change.

- I **want** to lose weight.
- I **would like** to lose weight.
- I **wish** I could lose weight.
- I **hope** to lose weight.

Ability: Statements about self-perceived ability.

- I **might be able to** drink less soda.
- I **could** drink less soda.
- I **didn't always** drink soda.

Reasons: Statements about the benefits of change. Describes a specific if-then motive for change.

- If my blood sugars were better controlled, then I would feel better.
- Eating more vegetables **would be better** for my health.

Need: Statements expressing an imperative for change without specifying a particular reason.

- I **need to** eat more fruit.
- I **ought to** eat whole grains.
- I **have to** start keeping food records.

Mobilizing Change Talk (CAT): Client expresses or implies action to change.

Commitment: Statements reflect a clear intention to change.

- I am **going to** start exercising.
- I **will** use a meditation tape tonight.
- I **plan** to eat a salad at lunch or dinner every day.

Activation: Statements signal a movement toward change.

- I **am ready** to change my eating behavior.
- I **am willing** to try whole grains.

Taking Steps: Statements describe an action already taken toward change.

- This week I **started** keeping food records.
- I **am not** eating after 8:00 p.m.

need to keep performing the undesirable behavior. For example, "I don't want to eat vegetables. I do not think there is any way to make vegetables taste good. Eating vegetables makes me nauseous. I need to drink cola throughout the day." These statements indicate a need to continue the status quo. If these comments are mixed with change talk statements, the fact that the client is ambivalent will be clear. Also a client may be making statements indicating

behavior change is possible, but their body language may indicate something different. In that case, the counselor will need to inquire regarding degree of importance, confidence, or readiness to make a change. See the next session, Evoking Change Talk.

- **Planning:** This process includes both developing commitment to change and formulating a plan of action. Planning for behavior change is covered in Chapter 5.

Exercise 2.8 Practice Identifying Change Talk and Sustain Talk

Work with a partner. Each of you should choose a behavior you are considering to change, such as drinking more water, drinking less coffee, eating more fruit, etc. Take turns being the counselor and the client and explore the desired behavior change. Record your session. When you are the counselor, help your client to explore their ambivalence. When you are the counselor, consider using the following questions:

"Most people considering a behavior change have reasons not to change and reasons to change. What are the reasons you have for considering change?"

"Have you ever tried to make this behavior change in the past? If so, what did you learn?"

"Rate on a scale of zero to ten (with ten being the highest) the importance of the behavior change."

"Why did you choose the number four and not two?"

"If you were to change, what would it be like?"

"Rate on a scale of zero to ten (with ten being the highest) how confident you are of making the behavior change."

"What would have to happen for you to choose the number six and not five?"

"If you decide to change, what would be your options?"

Be sure to include an affirmation. You may wish to have Table 2.6 in front of you.

After each has taken a turn, listen to the recording and jot down the change and sustain talk statements made by each of the participants. Discuss your findings with your partner.

Evoking Change Talk

Use Table 2.8 to identify the specific category of the change talk statements. The objective of change talk is to resolve ambivalence by providing opportunities and encouragement for the client, rather than the counselor, to make arguments for change. You guide the counseling session to allow your clients to explore perceptions and see a discrepancy regarding their current behavior compared with their values, beliefs, and concerns. The guiding encourages clarifying important goals, vocalizing change talk, and exploring the potential consequences of their present behavior. When the discrepancy overwhelms the need to keep the present behavior, there is likely to be a decision to start taking action to change. In doing so, the balance of indecision begins to shift toward taking action. As change talk strengthens, commitment increases as well as the likelihood of behavior change.⁴⁹

- 1. Ask Evocative Questions:** As clients speak aloud their thoughts and feelings about changing a behavior, clients are analyzing their commitment to change. Counselors are gaining a better understanding of what is important to their clients.⁴⁶ The following are some examples of useful questions for clients who are making DARN statements:

"What are you hoping our work together will accomplish?"

"What ideas do you have for getting your A1c levels below 7?"

"What are the problems for how your diet is now?"

"Most people considering a behavior change have reasons not to change and reasons to change. What are the reasons you have for considering change?"

Counselors can reinforce and amplify motivational statements by using nonverbal attentive behavior such as a head nod. Verbal reinforcement can come from making reflection responses, requesting clarification (for example, how much, how many, and give an instance), and including change talk statements in summaries.

- 2. Evaluate Importance and Confidence:** This technique usually involves two questions. First, clients are asked to rate on a scale of zero to ten (with ten being the highest) the importance of the behavior change (for example, increase intake of fruits and vegetables). Next they are asked to rate again on the same scale their confidence in making a change. Follow-up questions explore choices. For example, "Why did you choose the number four and not two?" "What would you need to get to the number seven instead of four?" An individual may feel that a change is worthwhile and may even elicit change talk indicating the importance of change, but if that person has little confidence in the ability to make the change, then implementation of action strategies is not likely to be successful. For example, a woman may feel confident in her ability to increase her calcium intake, but if she does not consider the issue important enough, her degree of readiness to change is reduced. Likewise, a woman who

Table 2.9 Three Topics in Talk about Behavior Change

Importance: Why?	Confidence: How? What?	Readiness: When?
Is it worthwhile?	Can I?	Should I do it now?
Why should I?	How will I do it?	What about other priorities?
How will I benefit?	How will I cope with x, y, and z?	
What will change?	Will I succeed if . . .	
At what cost?	What change . . . ?	
Do I really want to?		
Will it make a difference?		

Source: Rollnick S., Mason P., Butler C. *Health Behavior Change: A Guide for Practitioners*. New York: Churchill Livingstone; © 1999; p. 21. Used with permission.

feels an increase in calcium intake is important, but does not feel confident in her ability to make the increase, will be at a lower level of readiness to change. In general, lowest levels of readiness are often associated with low importance. Differences between the terms are illustrated in Table 2.9.

- **Values Clarification—Card Sort:** This technique was used successfully in the Healthy Body Health Spirit Trial.⁵⁰ Clients are asked to sort cards, each having a personal core value (such as being a good parent, competent, or attractive) according to how important the value is to them. Then clients

are asked if there are any connections between the health behavior desires and their values. This strategy has been incorporated into Exercise 2.9.

- **Change Roles:** Tell your client that you are going to change roles, and ask the client to convince you to make the contemplated behavior change. Gradually allow the client to persuade you.
- **Typical Day Strategy:** Ask your clients to take about five to ten minutes to describe a typical day and explain how their health issue (for example, diabetes) and their food needs are affecting their life. This strategy is discussed in more detail in Chapter 4.

Exercise 2.9 Values Clarification Card Sort

1. Obtain twenty-three index cards.
2. On one of the cards label IMPORTANT TO ME, on a second label VERY IMPORTANT TO ME, and on a third label NOT IMPORTANT TO ME. These are the anchor (title) cards, put aside.
3. On one card, label a behavior change you are contemplating, such as drink less coffee, and on a second card write another behavior change you are contemplating, such as exercising more.
4. On the remaining cards make eighteen value cards, and on each card write one of the following values. (Note some are actually attributes or goals.)

Good parent

Good spouse or partner

Wealth

Loved

Health

Creativity

Good community member

Respected at home

Spiritual

On top of things

Energetic

Considerate

Competent

Attractive

Successful

Independent

Responsible

Disciplined

5. Shuffle the eighteen value cards.
6. Team up with a partner and give your cards to your colleague.
7. Your partner will read the following script to you: “I am placing three title cards in front of you. Take the eighteen value cards and your two behavior change cards, look at each one, and place them under a title card. The only rule is that there cannot be more than four cards in the VERY IMPORTANT TO ME pile.”
8. Your partner will then ask you, “How does your desired behavior change relate to these goals or values?”

Source: This activity is based on one used by the Healthy Body, Healthy Spirit Project; Resnicow, K., Jackson, A., Blissett, D., Wang, et al. Results of the Healthy Body Healthy Spirit Trial. *Health Psychology*. 2005;24(4):339–348.

2.12 Integrating Motivational Interviewing with Other Behavior Change Approaches

MI is a communication style that can be integrated with other behavior change approaches. For example, MI may be used during an initial session with a client who is ambivalent about making dietary changes, and when the decisional balance shifts toward a commitment to change, the nutrition counselor could incorporate cognitive-behavioral techniques. In addition, a counselor may see a need to come back to a MI approach as a client begins to expand dietary changes. For example, someone who has high cholesterol and high blood pressure may begin working on making dietary changes by setting goals to eat fish three times a week and nuts or beans each day. After the food habits have been established, a client may have ambivalence about making other changes, such as decreasing intake of sodium or fried food, and using an

MI approach would again be helpful. In the PREMIER study to lower blood pressure, motivational interviewing integrated well with self-applied behavior modification techniques, Social Cognitive Theory, and the Transtheoretical Model to help individuals lower blood pressure and change dietary behaviors.⁵¹ MI has been found to be effective in the treatment of a broad range of behavioral problems and diseases, but a system analysis of the method shows a need for clinicians to be versed in a variety of methods for helping clients change health behaviors.⁵²

2.13 Brief Encounters Using Motivational Interviewing

Health care practitioners are often involved in brief interventions that do not allow full development of the MI approach. However, using components of MI, providing the “spirit” of motivational interviewing has met with success when time is limited.^{44,48} (See Table 2.10.)

Table 2.10 Using the Four Processes of Motivational Interviewing

Engage

- Introduce self and role.
- “What brings you here today?”
- “What are you hoping to get out of this appointment?”
- Summarize and let the client know the allotted time for the appointment.

Focus

- “If it’s all right with you, I have a sheet of paper with different changes that clients often make. What is appealing to you, if anything, as a change you might be interested in making?”

Evoke

- “Why did you select that particular change?”
- “How would that change make your life better?”
- “How interested are you in making that change on a scale from 0 to 10, with 0 being not at all interested and 10 being very interested? Why did you select that number?”
- Reflect and summarize change talk.

Plan

- “How might you go about making that change?”
- “Would you be interested in hearing other strategies that have worked for clients attempting to make that same change?”
- Offer ideas.
- “Which of these strategies, if any, interest you?”
- “How do you see that fitting into your life?”
- “How confident are you that you can make that change on a scale from 0 to 10, with 0 being not at all confident and 10 being very confident? Why did you select that number?”
- “What might keep you from following through with your plan? What ideas do you have for overcoming those barriers?”
- Summarize change talk, highlighting the client-selected behavior change.

Source: *Motivational Interviewing in Nutrition and Fitness* by Dawn Clifford and Laura Curtis, New York: The Guilford Press, 2016.

For brief encounters, the goal may be to encourage a client to think about changing health behaviors and to accept a referral. Many of the components for approaching health care counseling have been incorporated into the analysis and flow of a nutrition counseling session and are found in Chapter 4. Table 2.10 provides a guide for the flow of a counseling session using the four processes of MI when time is limited and the client is ambivalent.

2.14 Summary of Behavior Change Attributes

Health behavior change models, theories, and approaches provide a picture of what predisposes individuals toward making successful health behavior changes. Table 2.11 summarizes the attributes counseling and education practitioners hope to cultivate with their clients. Not all six qualities need to be present for change to occur, but they provide an overall view of desirability for practitioners. The art of nutrition counseling and education is an evolving process for both the profession and the professional. Making a decision to change one’s diet and implementing that decision is guided by a complex interaction of psychological and environmental factors. No one orientation meets all of the needs of a complex, fluid society, nor can one methodology be a perfect fit for an individual nutrition counselor or educator. Nutrition professionals must use their professional judgment regarding selection of an intervention. We have a large array of theories and approaches to choose among. Sigman-Grant⁵³ states that sixty different behavior change models have

Table 2.11 Putting It All Together: Successful Behavior Change Attributes Based on Theories and Models

1. Strongly desires and intends to change for clear, personal reasons
2. Faces a minimum of obstacles (information processing, physical, logistical, or environmental barriers) to change
3. Has the requisite skill and self-confidence to make a change
4. Feels positively about the change and believes it will result in meaningful benefit(s)
5. Perceives the change is congruent with his or her self-image and social group(s) norms
6. Receives reminders, encouragement, and support to change at appropriate times and places from valued persons and community sources, and is in a largely supportive community or environment for the change

Reprinted from *American Journal of Preventive Medicine* 22:267–284. Whitlock, E. P, Orleans, T., Pender, N., Allan, J. Evaluating Primary care behavioral counseling interventions: An evidence-based approach, 2002, with permission from Elsevier.

been developed to explain changes in health behavior and to guide nutrition interventions. See Table 2.12 for an overview of the ones most often cited as a guide for explaining the nature and dynamics of food behavior. A health professional can use an eclectic approach merging the most useful ideas from various models.

Table 2.12 Summary of Behavior Change Models and Approaches

Behavior Change Model or Approach	Focus	Key Concepts
Self-Efficacy	A component of numerous behavior change models and approaches; confidence in ability to perform a behavior	<ul style="list-style-type: none">• Positive self-efficacy increases probability of making a behavior change
Health Belief Model	Perception of the health problem and appraisal of benefits and barriers of adopting health behavior are central to a decision to change	<ul style="list-style-type: none">• Perceived susceptibility• Perceived severity• Perceived benefits• Perceived barriers• Cues to action• Self-efficacy

(continued)

Table 2.12 Summary of Behavior Change Models and Approaches *(continued)*

Behavior Change Model or Approach	Focus	Key Concepts
Transtheoretical Model	Behavior change is explained as a readiness to change	<ul style="list-style-type: none"> • Behavior change is described as a series of changes • Behavior change occurs over time • Specific behavior change strategies are identified for each stage
Theory of Planned Behavior	Intention influences behavior	<ul style="list-style-type: none"> • Intention is a result of attitude, subjective norm, perception of behavioral control
Social Cognitive Theory and Social Learning Theory	People learn by observing social interactions and media; personal factors, behavior, and the environment interact continuously, each influencing the other	<ul style="list-style-type: none"> • Self-efficacy • Enhancement of knowledge • Skill development • Social support • Observational learning • Reinforcements increase reoccurrence of behavior
Client-Centered Counseling	Clients actively participate in clarifying issues and exploring solutions	<ul style="list-style-type: none"> • Counselors develop an environment of unconditional positive self-regard
Cognitive Behavior Therapy	Behavior is learned so it can be unlearned; irrational ideas are self-defeating; focus is on changing the environment	<ul style="list-style-type: none"> • Distinguish between thoughts and feelings • Challenge pattern of thinking • Stress management • Self-monitoring • Identify and remove cues • Provide substitutions • Emphasize consequences • Modeling
Solution-Focused Therapy	Focus on identifying strengths and expanding on past successes	<ul style="list-style-type: none"> • Use solution talk • Do not solve problems
Motivational Interviewing	Explore and resolve ambivalence	<ul style="list-style-type: none"> • Client-centered, directive • Develop discrepancy • Evoke change talk • Support self-efficacy • Listen reflectively

Exercise 2.10 Applying Theoretical Approaches for the Helping Relationships Case Study**Behavior Change Approach****Application of the Approach**

Self-efficacy	In order to increase self-efficacy, a counselor would point out John's strengths, give verbal encouragement, set goals, encourage the social work staff to find social support for him.
Client-centered	A client-centered counselor would have unconditional positive regard for John and clearly communicate understanding of his concerns. Nutrition facts would be kept to a minimum, and the nutritionist would take direction from John as to what nutrition goals should be formulated.
Motivational Interviewing	A counselor using motivational interviewing would use an empathic style, explore his ambivalence about making food behavior changes, and encourage change talk.
Behavioral	A behavioral counselor would work on changing the environment to improve John's food management. This may involve offering rewards, making certain foods available, or showing a video.
Cognitive	A cognitive counselor would be concerned with John's irrational thought pattern. Intervention could focus on cognitive restructuring (changing thought patterns) or relaxation techniques. Because John is described as depressed, this could be discussed at a unit meeting with the staff psychologist.
Solution focused	A solution-oriented counselor could ask John whether he ever did exercise in his wheelchair or when he believes he is eating healthy foods at the nursing home. After identifying the resources that have worked for him in the past, opportunities to expand on those resources would be sought.

- ❑ Review the theoretical approaches for interacting with John. Record in your journal which theoretical approach or approaches you believe would provide success in dealing with this client. As a nutrition counselor, what do you believe would be your goals for working with John? Identify some specific actions you would take to achieve these goals.

Exercise 2.11 Helping Relationships

After reading the Helping Relationships Case Study, record in your journal five behaviors, characteristics, or physical concerns that a nutrition counselor needs to consider prior to any interventions, and indicate how they will impact the relationship. Also, take into consideration that this is an institution, and a nutrition counselor has a limited amount of time to spend with each client.

- ❑ What is preventing the professional staff from building a helping relationship?
- ❑ What issues regarding John could be brought up at a medical staff meeting?
- ❑ What steps could the nutritionist take to develop an effective helping relationship?

CASE STUDY 2.1 Helping Relationships

John is a seventy-year-old white veteran of the Vietnam War who was admitted to the nursing home because he was no longer able to care for himself. His diagnoses on admission included cerebrovascular accident (stroke), angina, cancer of the prostate, and major depression. He is generally confined to a wheelchair, but he can ambulate eight to ten steps with the assistance of two people. He is unable to dress himself due to right-sided hemiparesis (paralysis); he is continent of bowel but at times is incontinent of bladder. All of his laboratory values are within normal limits. John is mentally alert and not at all confused but has clinical depression. He has no family or visitors.

John is able to feed himself and has an excellent appetite. He consistently consumes 100 percent of his meals. His weight on admission can be indicated only as over 300 pounds, as the scale cannot measure over 299 pounds. It is estimated that he weighs about 320 pounds, which is approximately 100 pounds overweight. He has no difficulty chewing or swallowing and receives a regular diet of regular consistency. He loves to eat, and some staff members bring him food items from home, especially on the 3–11 shift. This helps calm him down during the evening hours, allowing the nurses to do their work.

At times John has outbursts of anger at the staff, particularly when given instructions on what he should do or when he is awakened from sleep. He calls the nurses “Babe” or “Sweetie” and can often be heard telling staff that they “look good today” and “you have a great set of gams.” Most of the nurses, recreation staff, and social service staff are relatively young and find his comments to be offensive. Their attitude toward him is tolerant at best, and they do little for him beyond his basic care. The staff openly talk at the nurses’ station about his repulsive attitude toward women. The nurses’ aides complain about his weight because it is difficult to get him in and out of bed. Allowing him to ambulate as per doctor’s orders is also a challenge because it takes two to three people to assist. John once fell, and the fire department had to come to get him off the floor because he was too heavy for staff members to lift.

In November, John had surgery for the removal of a cancerous prostate, and his prognosis continues to remain relatively poor considering his cancer and his heart disease. He will frequently comment on how he wants to lose weight; however, he will also say things like, “I could sure go for another one of those éclairs,” or “That cook sure can make a great meat loaf—I could have eaten another whole lunch.” At times he has even gotten angry if the staff does not meet his requests for seconds.

John spends his day sitting in the hallway watching the activities at the nurses’ station or goes to the patio and chain smokes. He enjoys some game shows and listens to country music. He does not attend recreational activities.

KEY TERMS

Behavior Change: conducting oneself differently in some particular manner.

Behavior Change Models: a conceptual framework for analyzing and explaining behavior change.

Theories: constructs to provide an explanation based on observation and reasoning of why phenomenon occurs.

Concepts: the building blocks or major components of a theory.

Constructs: concepts developed for use in a particular theory.

Models: generalized descriptions used to analyze or explain a phenomenon.

Motivation: a state of readiness to change.

Self-Efficacy: an individual’s confidence to perform a specific behavior.

Self-Motivational Statements: arguments for making a behavior change made by the client.

REVIEW QUESTIONS

1. What are the benefits of using theoretical behavior change theories and models?
2. Why does a high level of self-efficacy correlate positively with health behavior changes?
3. Identify and explain the six constructs of the Health Belief Model.
4. Identify and explain the five stages of change in the Transtheoretical Model.
5. According to the Theory of Planned Behavior, three factors that affect behavioral intention are attitude, subjective norm, and perceived behavioral control. Explain these factors.
6. Explain reciprocal determinism, a main principle of Social Cognitive Theory.
7. Explain why unconditional positive regard is essential for client-centered counseling.
8. Which type of therapy works at changing harmful thinking?

9. Which type of therapy focuses on changing the environment?
10. Which type of therapy does not focus on problem solving but encourages clients to elaborate on when the client was able to successfully cope?
11. How does a Motivational Interviewing counselor encourage a client to engage in change talk?

ASSIGNMENT Observation of a Nutrition Counselor

Observe a nutrition counselor in an inpatient clinic, outpatient clinic, or private office setting for two hours.[‡] Answer the following questions in your journal or in a typed, formal paper to be handed in to your instructor. Use the corresponding number or letter for each answer.

1. Identify the name of the setting, location, starting and ending time of the observation, date, and name of the counselor you observed.
2. Describe the physical setting where the nutrition counseling sessions took place.
3. Describe the counselor's attire and its appropriateness.

[‡]If a counselor is not available, an alternative would be to use a video of a counseling session that could be critiqued individually or in groups. These are available on YouTube.

4. Select a client you observed, and give the following information to the best of your ability:
 - a. Describe the client's gender, age, and cultural (including ethnic) orientation.
 - b. Was a helping relationship established? If not, why not? If yes, what did the counselor specifically do or say to encourage an effective relationship?
 - c. Explain the nature of the client's problem.
 - d. Was there evidence of collaboration between the counselor and the client to define dietary objectives? Explain.
 - e. Were short- or long-term goals established? If yes, what were they?
 - f. Describe any teaching or visual aids.
 - g. Was there evidence of tailoring dietary objectives to address the client's lifestyle issues? Explain.
 - h. Give your impression of the client's educational level and needs.
 - i. Give your impression of the client's health belief and self-efficacy regarding his or her dietary objectives.
 - j. What were the client's barriers to meeting the dietary objectives?
 - k. Estimate and explain what you believe was the client's stage of change.
 - l. Was there evidence of social support for the client to meet the dietary objectives?
 - m. Complete a counseling observation checklist. See below.

Counseling Observation Checklist

	Rarely	Occasionally	Undecided	Often	Almost always	Always
Counselor name: _____						
Date of session: _____						
Length of observation: _____ minutes						
Estimated percentage of time counselor talked: _____ %						
Did the nutrition counselor appear to be comfortable with the client and with the subject areas discussed?						
Did the counselor avoid imposing values on the client?						
Did the counselor remain objective?						
Did the counselor focus on the client, not just on the procedure of providing a diet instruction?						
Were the counselor's skills spontaneous and non-mechanical?						
How would you describe the likelihood that the client would return to this nutrition counselor again?						
Comments:						

5. Review Client-Centered Counseling, Solution Focused Therapy, Cognitive-Behavioral Therapy, and Motivational Interviewing approaches to counseling covered in this chapter. List each one, and indicate whether any components of the approaches were demonstrated in your observations. If yes, explain. If no, how could they have been incorporated?
6. Describe your general impressions of the counseling session. What did you learn from this experience?

Nutrition Care Process (NCP) Connection*

Theoretical basis/approach for nutrition education and nutrition counseling in NCP includes:

- Cognitive-Behavioral Theory
- Health Belief Model
- Social Learning Theory
- Transtheoretical/Stages of Change
- Motivational Interviewing—listed as a strategy in the NCP

*Throughout the book, connections to the Academy of Nutrition and Dietetics' Nutrition Care Process will be highlighted when appropriate. The Nutrition Care process is a systematic approach to providing high-quality nutrition care, including nutrition assessment, diagnosis, intervention, and monitoring evaluation. The process is elaborated on in Chapter 5.

Answers to Exercises

Exercise 2.1: 1 = d, 2 = f, 3 = e, 4 = b, 5 = c, 6 = a

Exercise 2.3: 1 action, 2 contemplation, 3 precontemplation

ADDITIONAL RESOURCES

Overview of Psychological Theories and Counseling Approaches

Contento, I. *Nutrition Education: Linking Research, Theory, and Practice*. 3rd ed. Sudbury, MA: Jones and Bartlett Learning, 2015.

Glanz, K., B. Krimer, and K. Viswanath. *Health Behavior: Theory, Research, and Practice*. 5th ed. San Francisco: Jossey-Bass, 2015.

Client-Centered Counseling

<http://carlrogers.org/> Carl Rogers Info: interviews, videos of therapy sessions and presentations.

Cooper, M., M. O'Hara, and P. F. Schmid. *The Handbook of Person-Centered Psychotherapy and Counseling*. 2nd ed. New York: Macmillan, 2013. A comprehensive overview

of theoretical and practical aspects of the person-centered approach. Highlights for nutrition counselors include using the approach for group work, families, medical settings, and counseling across differences.

Cognitive-Behavioral Therapy

Ellis, A. *Feeling Better, Getting Better, Staying Better: Profound Self-Help Therapy for Your Emotions*. Impact Publishers, 2001. This book explains the basics of cognitive-behavioral therapy.

Transtheoretical Model

Prochaska, J. O., and J. M. Prochaska. *Changing to Thrive: Overcome the Top Risks to Lasting Health and Happiness*. Center City, MN: Hazelden Publishing, 2016.

Motivational Interviewing

<https://motivationalinterviewing.org> Motivational Interviewing Network of Trainers (MINT) is an international of trainers in motivational interviewing. The website provide a variety of resources regarding research, training manuals, seminars, and videos.

www.stephenrollnick.com Stephen Rollnick's Motivational Interviewing and Training Resources. Personal Value Card Sort Activity is available.

Miller, W. R., and S. Rollnick. *Motivational Interviewing: Helping People Change*. 3rd ed. New York: The Guilford Press, 2013. The landmark book on Motivational Interviewing.

Rosengren, D. B. *Building Motivational Interviewing Skills, A Practitioner Workbook*. 2nd ed. New York: The Guilford Press, 2018. Written by a trainer of MI, the book is full of practice dialogues, concept quizzes, and excellent exercises.

Solution-Focused Brief Therapy

Lutz, A. B. *Learning Solution-Focused Therapy: An Illustrated Guide*. Arlington, VA: American Psychiatric Press, 2014. Includes more than thirty companion videos demonstrating the approach.

<https://www.basic-counseling-skills.com/solution-focused.html> Basic Counseling Skills, Solution Focused Therapy. The website provides resources including videos.

REFERENCES

- ¹A. Bandura, Self-efficacy: Toward a unifying theory of behavioral change. *Psychosoc Rev.*, 1977; 84:191–215.
- ²A. Bandura, *Social Foundations of Thought and Action*. Englewood Cliffs, NJ: Prentice-Hall, 1986.
- ³V. J. Strecher, B. M. DeVellis, M. H. Becker, et al., The role of self-efficacy in achieving health behavior change. *Health Educ Q.*, 1986; 13:73–91.

- ⁴W. R. Miller and S. Rollnick, *Motivational Interviewing: Helping People Change*, 3rd ed., New York: The Guilford Press, 2013.
- ⁵I. M. Rosenstock, V. J. Strecher, and M. H. Becker, Social learning theory and the health belief model. *Health Educ Quart.*, 1988; 15:175–183.
- ⁶C. S. Skinner, J. Tiro, and V. L. Campion, The Health Belief Model. In K. Glanz, B. K. Rimer, and K. Vswanath, eds., *Health Behavior Theory, Research, and Practice*. 5th ed. San Francisco: Jossey-Bass, 2015:75–94.
- ⁷D. Meichenbaum and D. C. Turk, *Facilitating Treatment Adherence: A Practitioner's Guidebook*. New York: Plenum, 1987.
- ⁸J. Ellis, M. A. Johnson, J. B. Fischer, and J. L. Hargrove, Nutrition and health education intervention for whole grain foods in the Georgia Older Americans Nutrition Program. *J Nutr Elderly*, 2005; 24:67–83.
- ⁹J. O. Prochaska, C. C. DiClemente, and J. C. Norcross, In search of how people change: Applications to addictive behaviors. *Am Psychol.*, 1992; 47:1102–1114.
- ¹⁰J. O. Prochaska, J. C. Norcross, and V. DiClemente, *Changing for Good: A Revolutionary Six-Stage Program for Overcoming Bad Habits and Moving Your Life Positively Forward*. New York: Avon Books, 1994.
- ¹¹J. O. Prochaska, C. A. Redding, and K. E. Evers, The transtheoretical model and stages of change. In K. Glanz, B. K. Rimer, and K. Viswanath, eds., *Health Behavior Theory, Research, and Practice*. 5th ed. San Francisco: Jossey-Bass, 2015:125–148.
- ¹²W. M. Sandoval, K. E. Heller, W. H. Wiese, and D. A. Childs, Stages of change: A model for nutrition counseling. *Top Clin Nutr.*, 1994; 9:64–69.
- ¹³J. K. Grommet, Weight management; framework for changing behavior. In S. Dalton, ed., *Overweight and Weight Management: The Health Professional's Guide to Understanding and Practice*. Gaithersburg, MD: Aspen, 1997:332–347.
- ¹⁴J. O. Prochaska and J. C. Norcross, *Systems of Psychotherapy: A Transtheoretical Analysis*. 3rd ed. Pacific Grove, CA: Brooks/Cole, 1994.
- ¹⁵F. Nothwehr, L. Snetselaar, J. Yang, and H. Wu, Stage of change for healthful eating and use of behavioral strategies. *J Am Diet Assoc.*, 2006; 106:1035–1041.
- ¹⁶J. O. Prochaska, Decision making in the transtheoretical model of behavior change. *Medical Decision Making*, 2008; 28:845–849.
- ¹⁷J. Ma, N. M. Betts, T. Horacek, et al., The importance of decisional balance and self-efficacy in relation to stages of change for fruit and vegetable intakes by young adults. *Am J Health Prom.*, 2002; 16:157–166.
- ¹⁸International Food Information Council Foundation, 2014 Food & Health Survey: Behavior Change Consumer Profiles, <https://www.foodinsight.org/>. Accessed April 15, 2019.
- ¹⁹C. A. Klöckner, A stage model as an analysis framework for studying voluntary change in food choices: The case of beef consumption reduction in Norway. *Appetite*, 2017; 108:434–449.
- ²⁰M. Sigman-Grant, Stages of change: A framework for nutrition interventions. *Nutr Today*, 1996; 31:162–170.
- ²¹H. Jones, L. Edwards, T. M. Vallis, et al., Changes in diabetes self-care behaviors make a difference in glycemic control: The Diabetes Stages of Change (DiSC) study. *Diabetes Care*, 2003; 26:732–737.
- ²²I. Ajzen and B. L. Driver, Prediction of leisure participation from behavioral, normative, and control beliefs: An application of the theory of planned behavior. *Leisure Science*, 1991; 13:185–204.
- ²³M. Fishbein and I. Ajzen, *Understanding Attitudes and Predicting Social Behavior*. Englewood Cliffs, NJ: Prentice-Hall, 1980.
- ²⁴K. Chase, M. Reicks, and J. M. Jones, Applying the theory of planned behavior to promotion of whole-grain foods by dietitians. *J Am Diet Assoc.*, 2003; 103:1639–1642.
- ²⁵M. K. Shilts, M. Horowitz, and M. Townsend, An innovative approach to goal setting for adolescents: Guided goal setting. *J Nutr Ed Behav.*, 2004; 36:155–156.
- ²⁶M. Horowitz, M. K. Shilts, and M. Townsend, EatFit: A goal oriented intervention that challenges middle school adolescents to improve their eating and fitness choices. *J Nutr Ed Behav.*, 2004; 36:43–44.
- ²⁷British Association for Behavioural and Cognitive Psychotherapies, <http://www.babcp.com/>. Accessed April 15, 2019.
- ²⁸J. M. Spahn, R. S. Reeves, K. S. Keim, et al., State of the evidence regarding behavior change theories and strategies in nutrition counseling to facilitate health and food-behavior change. *J Am Diet Assoc.*, 2010; 110:879–891.
- ²⁹A. Ellis and R. Harper, *A Guide to Rational Living*. North Hollywood, CA: Wilshire, 1997.
- ³⁰A. Ellis and W. Dryden, Rational-emotive therapy. *Nurse Pract.*, 1984; 12:16.
- ³¹A. T. Beck, *Cognitive Therapy and Emotional Disorders*. New York: International Universities Press, 1976.
- ³²A. T. Beck, Cognitive therapy: Past, present, and future. *J Consult Clin Psychol.*, 1993; 61:194–198.
- ³³D. Meichenbaum, *Cognitive Behavior Modification: An Integrative Approach*. New York: Plenum, 1977.
- ³⁴The American Institute for Cognitive Therapy, <http://cognitivetherapynyc.com/Default.aspx>. Accessed April 15, 2019.
- ³⁵B. F. Skinner, *The Behavior of Organisms*. New York: Appleton-Century-Crofts, 1938.
- ³⁶B. F. Skinner, *Contingencies of Reinforcement: A Theoretical Analysis*. New York: Appleton-Century-Crofts, 1969.
- ³⁷J. Garcia-Silva, N. N. Navarrete, M. I. Peralta-Ramirez, et al., Efficacy of cognitive behavioral therapy in adherence to the Mediterranean diet in metabolic syndrome patients: A randomized controlled trial. *J Nutr Ed Behav.*, 2018; 50:896–904.
- ³⁸S. de Shazer and Y. Dolan, *More Than Miracles: The State of the Art of Solution-Focused Brief Therapy (Haworth Brief Therapy)*. Abingdon-on-Thames, England: Routledge, 2007.
- ³⁹C. R. Rogers, *Client-Centered Therapy*. Boston: Houghton Mifflin, 1951.
- ⁴⁰M. Berry and D. Krummel, Promoting dietary adherence. In P. Kris-Etherton and J. H. Burns, eds., *Cardiovascular-Nutrition-Strategies and Tools for Disease Management and Prevention*. Chicago: Academy of Nutrition and Dietetics, 1998:203–215.
- ⁴¹G. Panza, L. Armstrong, B. Taylor, et al., Weight bias among exercise and nutrition professionals: A systematic review. *Obesity Reviews*, 2018; 19:1492–1503.
- ⁴²C. Butler, S. Rollnick, and N. Stott, The practitioner, the patient and resistance to change: Recent ideas on compliance. *Can Med Assoc J.*, 1996; 154:1357–1362.

- ⁴³National Institutes of Health (NIH) Obesity Health Initiative, *Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults*, NIH Publication No. 98-4083. Washington DC: U.S. Department of Health and Human Services, 1998.
- ⁴⁴S. M. Berg-Smith, V. J. Stevens, K. M. Brown, et al., Dietary Intervention Study in Children (DISC) Research Group. A brief motivational intervention to improve dietary adherence in adolescents. *Health Educ Res.*, 1999; 14:101–112.
- ⁴⁵R. M. Ryan and E. L. Deci, Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. *Am Psychol.*, 2000; 55:68–78.
- ⁴⁶D. Clifford and L. Curtis, *Motivational Interviewing in Nutrition and Fitness*. New York: The Guilford Press, 2016.
- ⁴⁷D. B. Rosengren, *Building Motivational Interviewing Skills: A practitioner workbook*. 2nd ed. New York: The Guilford Press, 2018.
- ⁴⁸S. Rollnick, W. R. Miller, and C. Butler, *Motivational Interviewing in Health Care Helping Patients Change Behavior*. New York: The Guilford Press, 2008.
- ⁴⁹P. C. Amrhein, W. R. Miller, C. E. Yahne, et al., Client commitment language during motivational interviewing predicts drug use outcomes. *J Consul Clin Psych.*, 2003; 71:862–878.
- ⁵⁰K. Resnicow, A. Jackson, D. Blissett, et al., Results of the Healthy Body Healthy Spirit Trial. *Health Psychology*, 2005; 24:339–348.
- ⁵¹P. H. Lin, L. J. Appel, K. Funk, et al., The PREMIER intervention helps participants follow the dietary approaches to stop hypertension dietary pattern and the current dietary reference intakes recommendations. *J Am Diet Assoc.*, 2007; 107:1541–1551.
- ⁵²S. Rubak, A. Sandbaek, T. Lauritzen, et al., Motivational interviewing: A systematic review and meta-analysis. *BJGP*, 2005; 55:305–312.
- ⁵³M. Sigman-Grant, Change strategies for dietary behaviors in pregnancy and lactation. *University of Minnesota Educational Videos from the 1999 National Maternal Nutrition Intensive Course*. Minneapolis: University of Minnesota School of Public Health, 1999.

3

Communication Essentials



David Buffington/Photodisc/Getty Images

Learning Objectives

- 3.1** Identify stages of skill development.
- 3.2** Describe the impact of communication dynamics on nutrition interventions.
- 3.3** Explain intercultural influence on communication.
- 3.4** Identify three intents for formulating counseling responses.
- 3.5** Evaluate effectiveness of counselor's nonverbal communication.
- 3.6** Identify common messages from North American body language.
- 3.7** Identify communication roadblocks.
- 3.8** Demonstrate skills for building a relationship.
- 3.9** Utilize basic counseling responses.

An ounce of dialogue is worth a pound of monologue.

—ANONYMOUS

This chapter is devoted to exploring communication basics related to nutrition interventions. First, we will review basic nutrition counseling goals using the Haney and Leibsohn model of counseling, which includes facilitating awareness, supporting healthy lifestyle decision-making, and encouraging clients to take appropriate actions. This chapter is devoted to the basic skills and counseling responses that aid in helping clients take these actions. To accomplish these goals, nutrition professionals will likely need to learn new skills, so we will explore factors related to skill development. Then, we will examine a model of communication. Because we talk and interact with others every day, the need to review such a model may not seem obvious. However, interaction may not lead to communication, and by examining the model, we can see specific points where communication can break down. Cultural differences between two individuals can add another layer of complexity for communication, and this topic will be highlighted. Then, guidelines for effective communication in a counseling environment will be addressed. Finally, basic counseling responses will be covered, stressing appropriate times to use them in an intervention.

3.1 Nutrition Counseling Goals

Using the Haney and Leibsohn model of counseling, we can identify three specific goals in nutrition counseling.¹ The first is to *facilitate lifestyle awareness*, which can be achieved by keeping the **focus** on your client; acknowledging feelings, experience, and behavior; and providing information. Exploring feelings, ambivalence, inner strengths, behavior, and alternative options can increase the likelihood of obtaining the second goal, *healthy lifestyle decision-making*. The ultimate goal in nutrition counseling is for your client to *take appropriate action* to obtain a healthier lifestyle and become self-sufficient.^{1*, 2} This is done by exploring issues and encouraging your client to view his or her situation differently. In particular, nutrition counselors help clients take appropriate actions by encouraging them to take risks, tolerate incongruities, and give new behaviors and thoughts a chance before discounting them.³

*Although self-sufficiency is often stated as the ultimate goal of nutrition counseling, it should be noted that in a study of older patients with diabetes, a significant number reported that they did not desire an independent self-care role (Anderson et al., 1998). Also, the guidelines developed by the expert panel for the Identification, Evaluation, and Treatment of Overweight and Obesity headed by Dr. F. Xavier Pi-Sunyer acknowledge that a weight maintenance program consisting of diet therapy, behavior therapy, and physical activity may need to be continued indefinitely for some individuals (NIH Publication, 98-4083, 1998).

3.2 Stages of Skill Development

A student of nutrition counseling has the task of learning many new technical, social, and conceptual skills. For some individuals, the job will be easier than for others. This is because we are all born with **traits**, which are a quality of mind or personality characteristics. The special traits that are part of our essence may or may not easily interface with the interpersonal skills needed for counseling. However, no matter what special abilities we possess, we can all learn counseling skills through patience and practice.

As with learning any new skill, we must pass through a sequence of steps before mastering the skill. While reviewing the following sequence, keep in mind a skill that took you some time to develop, such as learning to drive a car.

1. **Motivation.** The first important step for developing a skill is having a desire to learn. A motivated student will progress to a much higher level of expertise than an unmotivated one, no matter what special traits a person possesses. Motivation can be enhanced by learning in a supportive environment that encourages success by mastering skills in a sequential, stepwise manner.
2. **Learning.** Acquiring knowledge, skills, and attitudes necessary to become an effective nutrition counselor comes from reading, participating in learning activities, making observations, engaging in discussions, and listening to presentations.
3. **Awkwardness.** If possible, the initial attempts at using a new counseling skill should be undertaken with volunteers under supervision, such as a role-playing situation. A novice counselor must be willing to go through a period of discomfort in order to acquire effective counseling skills. A degree of awkwardness should also be expected when conducting your first counseling session.
4. **Conscious awareness.** As ability is gained, a counselor is likely to feel more comfortable using the specific skill but will still be consciously aware of the process.
5. **Automatic response.** Eventually, the skill will become an automatic reaction with little or no forethought or discomfort.

6. **Proficiency.** A high level of expertise will be obtained when a counselor can perform and modify the skill under varying conditions. As nutrition counselors gain proficiency, they are likely to feel free to experiment with new approaches and to modify and expand their skills.

3.3 Model of Communication

Understanding the dynamics of communication is essential for developing good counseling skills. Counselors in particular need to realize that a speaker's statements can be interpreted in several ways, as illustrated in Figure 3.1. In this model, a speaker's intended meaning can be distorted at three main junctures: (1) The talker may not communicate clearly because of a faulty *encoding process*, or the ability to express a thought. This happens when language skills are not adequate or a person uses abstractions or generalizations as a way of dealing with denial or anxiety. (2) Distortions also occur when words are not heard properly. (3) A listener can distort a message during the *decoding process*, which refers to analysis of the thoughts expressed by others. We all interpret statements through mental filters created by past experiences. Because no two people have precisely the same life experiences, their filters will differ and interpretations simply become best guesses. Many remarks contain multiple meanings. For example, the statement "I binged last Saturday" could mean eating two brownies, consuming half the food in the refrigerator, or getting drunk. If counselors silently equate their interpretations with exact meaning, communication will break down.

3.4 Cultural Influence on Communication

Cultural orientation has a major impact on the process of communication. The closer two individuals share a common culture, the greater the likelihood that distortions will be minimal and conversation will flow smoothly. Each society has a conscious and an unconscious series of expected reciprocal responses. For example, in the United States, a "You're welcome" is expected to follow a "Thank you." When expected responses do not happen, a feeling of discomfort ensues. Race, gender, age, and nationality have the greatest influence on cross-cultural communication, although equally influential can be degree of acculturation or assimilation, socioeconomic status, health condition, religion, educational background, group membership, sexual orientation, or political affiliation.¹

Key differences among cultural groups often involve body language, variations in use of expressive language, degree of directness, use of eye contact, amount of personal space needed, and acceptable duration of silence. See Table 3.1 for specific examples of general communication differences of various cultural groups. While reviewing this list, keep in mind that considerable individual variation exists within any particular cultural group.

3.5 Guidelines for Enhancing Counseling Communication Effectiveness

This section reviews selected skills for enhancing communication in a counseling session. These include an introduction to the use of focuses and **intents** for the formulation of responses, an overview of effective

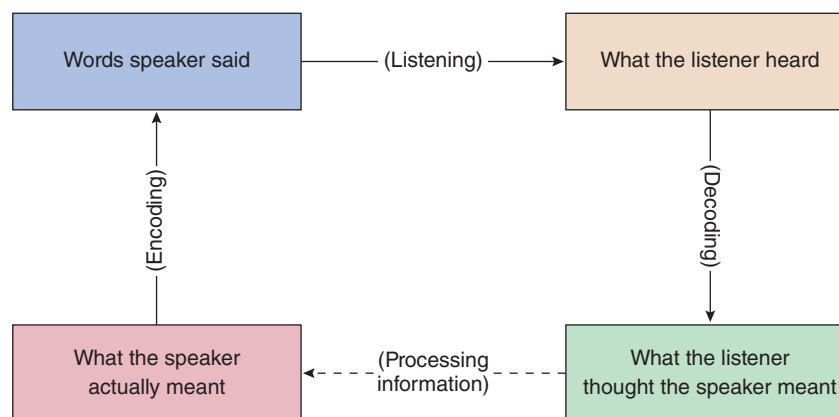


Figure 3.1 A Model of Communication

Source: Adapted from Gordon T, *Parent Effectiveness Training* (New York: Three Rivers; 2000).

Exercise 3.1 Generating Alternative Meanings

The purpose of this activity is to encourage you to practice generating alternative meanings. Work with colleagues in triads. Each person should complete this statement: “One thing that I like about myself is that I . . .” The statement should be relatively abstract and have a degree of ambiguity. Concrete statements such as physical attributes should be avoided, such as “One thing I like about myself is that I have blue eyes.” Each person should take a turn making one of the statements. The two listeners consider various meanings and respond five times with “Do you mean that you . . .?” The volunteer can only answer yes or no. Here is an example:

Speaker One thing I like about myself is that I am strong.
Listener Do you mean that you can lift a lot of weight?
Speaker No.
Listener Do you mean that you are there to help people if there is a problem?
Speaker Yes.
Listener Do you mean that you can handle a lot of problems at one time?
Speaker No.
Listener Do you mean that you don’t fall apart when a problem occurs?
Speaker Yes.

In a counseling situation, you would not interrogate a client with a series of “What do you mean?” questions but rather you should listen closely and consider alternative meanings. In the following sections of this chapter, various counseling responses will be covered to help clients clarify their meanings to you and to themselves.

- ☐ When you were the speaker in this activity, were you frustrated by the limitation of only being able to answer yes or no? Generally as attempts are made to clarify meanings, a person undergoes a deeper self-evaluation and will feel the need to elaborate. How does this activity relate to the counseling process?

Source: Miller W. R., and S. Rollnick. *Motivational Interviewing*. New York: Guilford Press, 1991:168.

Table 3.1 Cultural Comparisons of Communication Styles

African Americans	Asians	Latinos	Middle Easterners	Native Americans	Anglo Americans
Speak quickly, with affect and rhythm	Speak softly	Speak softly—may perceive normal white voice as yelling	Speak softly	Speak slowly and softly	Speak loudly, quickly—control of listener
Direct eye contact when speaking, may avert if prolonged—look away when listening	Avert eyes as sign of respect	Direct eye contact between members of same sex—may seem to stare—aversion seen as insult, though women may avert eyes with men	Direct gaze between members of same sex—women may avert eyes with men	Indirect gaze when speaking and listening	Direct eye contact when speaking and listening—prolonged contact rude
Interject often (taking turns)	Head nodding may indicate active listening—rarely interject	Seldom make responses to indicate active listening or to encourage continuation—rarely interject	Facial gestures express responses	Seldom make responses to indicate active listening or to encourage continuation—rarely interject	Head nodding, murmuring

(continued)

Table 3.1 Cultural Comparisons of Communication Styles (*continued*)

African Americans	Asians	Latinos	Middle Easterners	Native Americans	Anglo Americans
Very quick response	Delayed auditory (silence valued)	Mild auditory delay	Mild auditory delay	Delayed auditory (silence valued)	Quick response
Expressive, demonstrative	Polite, restrained, articulation of feelings considered immature	Men restrained, women expressive but not emotional	Expressive, emotional	Expression restrained	Task-oriented, focused
Respectful, direct approach	Indirect approach (Japanese); direct approach (Chinese, Koreans)	Indirect approach	Indirect approach	Indirect approach—stories about others may be metaphors for self	Direct approach, minimal small talk for urban whites—more indirect for rural whites
Assertive questioning	Rarely ask questions	Will ask questions when encouraged	Will ask polite questions	Rarely ask questions—yes or no answer considered complete	Ask direct questions
Firm handshake, smile	May or may not exchange soft handshake	Firm handshake among men, soft handshake with women	Numerous greetings, salaam—may or may not exchange soft handshake, smile	Quick handshake, smile	Firm handshake, smile
Touching common—reluctance to touch may be interpreted as rejection—stand and sit closer than majority whites	Non-touching culture—stand and sit farther away than majority whites	Touching common—stand and sit closer than majority whites	Touching common between members of same gender—stand and sit closer than whites	Minimal touching	Moderate touching
High-context use of pictures, graphs, charts useful	Very high-context use of pictures, graphs, charts important	Moderately high context	High-context use of pictures, graphs, charts useful	Very high-context use of pictures, graphs, charts important	Low- to medium-high context
Polychronistic	Polychronistic—punctual	Polychronistic	Polychronistic	Polychronistic	Monochronistic

Sue, D. W., H. Neville, and L. Smith. *Counseling the Culturally Diverse: Theory and Practice*. 8th ed. Copyright © 2019. Adapted with permission from John Wiley & Sons, Inc.

*Polychronistic: Circular, not defined by time; Monochronistic: Linear, time-oriented.

nonverbal behavior, an explanation of the value of harmonizing verbal and nonverbal behaviors, an analysis of nonverbal behavior, an examination of communication roadblocks, and a review of the importance of empathy for developing an effective counseling relationship.

Use Focuses and Intents When Formulating Responses

Flow of communication in a counseling setting for the most part is not like having a conversation with a friend. Counselors need to modify some previously learned behaviors such as talking about oneself, asking many questions, and avoiding lulls and silences. Counselors use verbal and nonverbal counseling responses with a specific **intent** and focus to address counseling objectives. Counseling intent is a rationale for selecting a particular response, and counseling focus is the placement of the emphasis in a response. The focus of a response could be placed on information about a client or a client's general experiences. The experience response can be subdivided further into feelings, thoughts, or behaviors. See Figure 3.2.

The counseling model developed by Haney and Leibsohn¹ has three intents, or rationales for selecting a particular response. See Figure 3.3. By recognizing the hoped-for outcome of a response, a counselor is better able to formulate an effective response. The intents include the following:

1. **To acknowledge.** If a counselor's intent is to acknowledge, then responses would be selected that identify observations, affirm, show respect, or recognize the worthiness of a client. Relationship-building responses would fall into this category.
2. **To explore.** The objective of a response could be for a client to explore ambivalence, consider new information, or gain insight. If this is the case, counselors might ask questions, provide information, or make clarifying responses.
3. **To challenge.** If the intent is to help clients see their situation differently or to take a different course of action, then a response that notes a discrepancy could be selected.

The following illustrates counselor responses using various focuses and intents:

- *Your blood evaluation indicates that you have a cholesterol level of 330. Your dietary evaluation shows a high intake of saturated fat and sugar and a low intake of fiber, fruits, and vegetables.* (information focus, intent to explore)

²Note that this is a general question allowing the client to choose a more specific focus (that is, feeling, thought, or behavior).

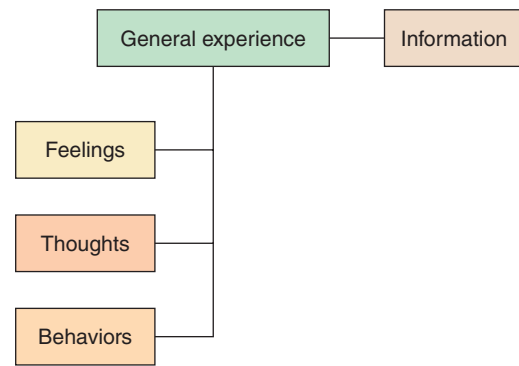


Figure 3.2 Nutrition Counseling Response Focuses

Source: Text for image is from J. H. Haney and J. Leibsohn. *Basic Counseling Responses*. Pacific Grove, CA: Brooks/Cole, Wadsworth © 1999.



Figure 3.3 Counseling Response Intents

Source: J. H. Haney and J. Leibsohn. *Basic Counseling Responses*. Pacific Grove, CA: Brooks/Cole, Wadsworth © 1999. Reprinted with permission.

- *How did you handle the party last week?* (experience focus,² intent to explore)
- *You have a right to feel angry about having to handle another dietary modification.* (feeling focus, intent to acknowledge)
- *I am getting the impression that you are thinking that you are a bad person because you ate a lot of cheese at the party.* (thought focus, intent to explore)
- *You set a goal to limit your intake of cheese to one ounce a day, but at the party you found this challenging.* (behavior focus, intent to challenge)

The communication analysis in the case study at the end of this chapter presents an examination of the focus and intent of responses made to a client. Note again that a particular interpretation of an intent or a focus can be debated because communication is influenced by a multitude of factors—cultural orientation, body language,

Table 3.2 Summary of Possible Counseling Intents

Responses	Possible Counseling Intents				
	Acknowledge		Explore		Challenge
	Relationship Building	Continue Talking	Counselor Is Listening	Clarify Concern	Note a Discrepancy
Attending	X	X	X		
Empathizing	X	X	X	X	
Legitimation	X				
Respect	X				
Personal support	X				
Partnership	X				
Mirroring			X		
Paraphrasing		X	X	X	
Giving feedback				X	X
Questioning				X	
Clarifying				X	
Noting discrepancy					X
Directing				X	X
Advice				X	X
Silence				X	
Self-disclosing	X	X			

and voice inflection, to name a few. However, by studying intent and focus evaluations, student counselors can enhance their abilities to formulate counseling responses. See Table 3.2 for a list of possible counseling intents for common counseling responses.

Use Effective Nonverbal Behavior

A great deal of our communication, up to 85 percent, is based on tone of voice and body language.⁴ Generally, people learn to trust perceptions of nonverbal behavior over verbal remarks as a better indication of the meaning of messages. In other words, people inherently believe the adage “actions speak louder than words.” This tendency probably occurs because much of our body language is under unconscious control, whereas verbal statements are more likely to be deliberate and subject to censorship.

Developing good nonverbal behavior is an extremely important skill for counselors to create an environment conducive to the development of a trusting relationship.

Facilitative body behaviors have been shown to result in positive client ratings, even in the presence of ineffective and detracting verbal messages.⁵ A counselor’s joyful expression or attentive silence can communicate an understanding of a client’s emotional state. Match the intensity of your own verbal and nonverbal messages with each other to create congruence. Communication will be hampered by unproductive nonverbal behavior, such as frequently looking at a watch, yawning, slouching, tapping or swinging feet, or playing with hair or a pencil. These distracting behaviors indicate that the listener is not interested in what the speaker has to say.

Table 3.3 lists effective and less effective nonverbal behaviors; however, before condemning any behaviors, the context of an encounter needs to be taken into consideration, including cultural practices of the client, verbal content, timing in session, and the client’s perceptual style.⁶ The list should be considered as a guide, not as steadfast rules.

Table 3.3 Effective and Ineffective Counselor Nonverbal Behavior

Nonverbal Mode of Communication	Ineffective Nonverbal Counselor Behavior	Effective Nonverbal Counselor Behavior
Space	Distant or very close	Approximately arm's length
Posture	Slouching; rigid; seated leaning away	Relaxed but attentive; seated leaning slightly toward
Eye contact	Absent; defiant; jittery	Regular
Time	You continue with what you are doing before responding; in a hurry	Respond at first opportunity; share time with client
Feet and legs (in sitting)	Used to keep distance between the persons	Unobtrusive
Furniture	Used as a barrier	Used to draw persons together
Facial expression	Does not match feelings; scowl; blank look	Match your own or other's feelings; smile
Gestures	Compete for attention with your words	Highlight your words; unobtrusive; smooth
Mannerisms	Obvious; distracting	None or unobtrusive
Voice: volume	Very loud or very soft	Clearly audible
Voice: rate	Impatient or staccato; slow or hesitant	Average or a bit slower
Energy level	Apathetic; sleepy; jumpy; pushy	Alert; stay alert throughout a long conversation

Harmonize Verbal and Nonverbal Behaviors

Your behaviors should also harmonize with your clients' expressive state. For example, a client who is animated and loud will have more trouble getting in synch with a counselor who has reserved body movements and a quiet voice. Body language harmony between two people is referred to as **synchrony**.

Mirroring and matching a client's body language have been advocated for business and sales personnel as a way to increase sensitivity and establish rapport.⁷ Similarly, Magnus⁸ suggests that a counselor mirror

a client's silence behavior for those who are culturally accustomed to long periods of silence. In an investigation reported by Curry and Jaffe,⁷ students who were able

to calibrate their behavior to match their clients had more successful counseling interventions. These students matched behaviors, such as cocking of the head, or made responses incorporating words used by their clients. Care should be taken not to use this method to an extreme; otherwise, clients will feel as if they are being mocked. To not feel overwhelmed when learning this strategy, try to select only one aspect of your client's behavior to mimic.

Anecdote

The first client I ever counseled was in a nutrition counseling class. My first impression was that this person was not communicative, as she sat with her arms crossed in front of her. I thought she was putting up a barrier. Later she put her head in her hand and rested her elbow on the table. For some reason I instinctively followed both behaviors, even though they would not be found on a counseling etiquette list. This client gradually opened up, and I felt mimicking her behavior contributed to the harmony that developed between us.

Exercise 3.2 Identifying Effective Nonverbal Behavior

Work with a colleague and do this exercise twice, exchanging roles as speaker and listener. The speaker engages in a monologue for five minutes on what it was like growing up in his or her home. The listener facilitates the discussion using only body language. No verbal sounds, such as "Mm-hmm," are permitted. After completing this exercise, exchange information with your associate as to what was done that communicated listening and encouraged you to keep talking. What would you have said if you could have talked while you were the listener?

Source: Miller, W. R., and S. Rollnick. *Motivational Interviewing*. New York: Guilford, 1991, pp. 164–165.

Although this method is useful in most counseling situations, you may wish to modify the technique when a client's expressive state, such as one who is agitated or distracted, would not be productive to mirror. Kellogg⁹ suggests briefly harmonizing with your client and then shifting to a more attentive, focused manner, which would encourage your client to become calmer and more focused.

Analyze Nonverbal Behavior of Your Client

Besides paying attention to your own nonverbal behavior, care should be taken to observe and interpret your client's body language. Clues regarding a client's feelings can come from body language, including expressions of autonomic nervous system reactivity (sweaty palms, flushed face, and so forth).¹⁰

Habit and culture complicate the overall task of interpreting nonverbal behavior, so counselors need to be wary of jumping to conclusions. Studies indicate that no single aspect of nonverbal communication can be universally translated across all cultural groups.¹¹ For example, nodding the head usually means yes in North America, but a single nod in the Middle East means no. More than 7,000 different gestures have been recognized,¹² thereby creating many opportunities for misunderstanding of particular cultural meanings.

Exercise 3.3 Video and Analyze Nonverbal Behavior

Video a five-minute conversation with a colleague or friend, during class or outside of class. After the discussion, write down your feelings during the dialogue. Play the video twice—with the sound on and again with the sound off.

❑ In your journal, describe your nonverbal behavior each time. Was your nonverbal behavior congruent with your recorded feelings? Analyze your behavior. Do you have any distracting habits that communicate inattention (for example, biting lips, playing with hair, and so forth)? What did you learn from this experience?

Anecdote

For a nutrition counseling assignment, I visited an Indian Hindu temple for a ceremony, followed by a meal. The temple was extremely crowded, and in the beginning of my visit, people were busy preparing for the ceremony and meal. Several times I was physically pushed aside with no apology. I found myself getting angry about the whole experience until I discussed the situation with one of the women. I asked if maybe this was some kind of cultural thing, and the woman told me that no offense was meant. She explained that gentle pushing was common when their temple was crowded and there was a lot of work to be done. I still do not know if this is an Indian Hindu practice or just what happens at that particular temple, but I did feel much better after the conversation. In fact, I thoroughly enjoyed the experience, and I found the people at the temple to be warm and anxious to share and explain their culture to me.

Magnus⁸ suggests if you are unsure of a particular behavior, you should ask for clarification. For example, you could ask, "I notice that you are mostly looking down. Would you tell me what that means for you?"

Communication Roadblocks

Be aware of communication roadblocks and use them only when justified. Communication roadblocks are obstacles that counselors inadvertently put up that

block self-exploration. They happen when counselors impose their own views, feelings, opinions, prejudices,

Exercise 3.4 Interpreting Common Nonverbal Cues Among North Americans

Select a person to act out the following behaviors. Write down your interpretation of the message portrayed by the behavior. The end of the chapter has a list of the common meanings of these behaviors for North Americans.

Behaviors

- | | |
|-------------------------------|-----------------------------|
| 1. Hand over mouth | 12. Making eye contact |
| 2. Finger wagging | 13. Avoiding eye contact |
| 3. Crossed arms | 14. Wringing hands |
| 4. Clenched fists | 15. Biting the lip |
| 5. Tugging at the collar | 16. Tapping feet |
| 6. Hand over eyes | 17. Hunching over |
| 7. Hands on hips | 18. Erect posture |
| 8. Eyes wide, eyebrows raised | 19. Slouching in seat |
| 9. Smile | 20. Shifting in seat |
| 10. Shaking head | 21. Sitting on edge of seat |
| 11. Scratching the head | |

❑ How did you do? Do not feel too bad if you were not able to correctly identify all behaviors. Generally, nonverbal behaviors are expressed in clusters, and we usually do not focus on one aspect of the cluster. We interpret nonverbal behavior based on a general impression.

Table 3.4 Examples of Roadblocks

Response	Examples
1. Ordering, directing, or commanding	"Don't say that." "Go right back and tell her . . ."
2. Warning or threatening	"You're really asking for trouble when you eat like that." "You better get your blood pressure down." "It is risky to carry around so much weight."
3. Giving advice, making suggestions, or providing solutions	"What you need to do . . ."
4. Persuading with logic, arguing, or lecturing	"Yes, but . . ." "Let's reason this through . . ."
5. Moralizing, preaching, or telling them their duty	"You should . . ." "You really ought to . . ."
6. Judging, criticizing, disagreeing, or blaming	"You're wrong. It is too bad that you can't . . ." "You did this to yourself." "You have only yourself to blame for this condition."
7. Agreeing, approving, or praising	"You did the right thing." "You're doing well at . . ." "You are absolutely right."
8. Shaming, ridiculing, or name-calling	"How foolish can you be!" "You are acting like a child." "You should be ashamed of yourself."
9. Interpreting or analyzing	"You know what your real problem is?" "I know what's troubling you." "You didn't really mean to do that."
10. Reassuring, sympathizing, or consoling	"Everything is going to be all right." "You will have your cholesterol down in no time." "Before you know it, it will all be over."
11. Questioning or probing	"Why did you say that?" "How did you come to that conclusion?"
12. Withdrawing, distracting, humoring, or changing the subject	"We can talk about that next week." "Let me tell you about what happened to me." "Look at how hard the rain is falling."

Source: Miller, W. R., and S. Rollnick. *Motivational Interviewing Helping People Change*. 3rd ed. New York: The Guilford Press, 2013.

and judgments. According to Miller and Rollnick¹³ the underlying message of the counselor is, "Listen to me I know best." Twelve types of responses that create roadblocks have been identified by Gordon.¹⁴ See Table 3.4 for elaboration on these roadblocks. A nutrition counselor using roadblocks in a dialogue with a client is illustrated in Table 3.5.

Roadblocks can be used effectively in the counseling process; however, many times they are employed too soon or too often. They are frequently made with good intentions and not meant to block communication. Nevertheless, a counselor needs to be aware of their affect of blocking, stopping, diverting, or changing direction of communication. There are times in a counseling session that you do want to take a new direction, and one of the responses in Table 3.4 would be appropriate. Generally, this would be after you believe you have listened carefully and understood your client's "story."

3.6 Empathy

Emphasis for developing an effective relationship is often placed on the first meeting and at the beginning of each session. However, a productive relationship needs to be continuously nurtured, for this process can in itself be an instrument of change. The core of such a relationship is the counselor's ability to experience and show **empathy**. Without this quality a therapeutic relationship cannot move forward.¹⁵ The degree of empathy demonstrated by counselors has been shown to significantly affect outcomes in a study on drinking behavior.¹³

Empathy is a true understanding of another's unique perspective and experience without judging, criticizing, or blaming.¹³ To allow empathic insight to enhance counseling, the counselor becomes immersed in another's experience without losing one's own sense of self. By maintaining a separate perspective, a counselor can gain

Table 3.5 Example of a Counselor Using Roadblocks

Roadblock	Speaker	Response
Disagreeing	CLIENT	<i>Everyone is getting on my back about my cholesterol levels—my wife, my doctor, my brother.</i>
	COUNSELOR	<i>They have your best interests in mind.</i>
Warning	CLIENT	<i>I suppose they're right, but I feel fine.</i>
	COUNSELOR	<i>You feel fine now but a cholesterol level of 300 is nothing to take lightly.</i>
Agreeing; giving advice	CLIENT	<i>I guess I have to do something about my diet.</i>
	COUNSELOR	<i>I think so, too. Eating the proper foods can really help bring down cholesterol levels.</i>
Reassuring; making suggestions	CLIENT	<i>But it doesn't thrill me to give up meatballs and pizza.</i>
	COUNSELOR	<i>It really isn't that bad. It's true that you probably can't have them as often as you have been eating them, but they could be worked into a meal plan. Now, have you ever tried eating soy foods, like tofu?</i>

Compare this dialogue with the reflective listening example in Chapter 2.

insight for designing worthwhile interventions. To help explain the process of empathy, Murphy and Dillon¹⁵ offer the following clarifications:

1. *Empathy is not sympathy. Sympathy is what I feel toward you; empathy is what I feel as you.*
2. *Empathy is much more than just putting oneself in the other person's shoes. Empathy requires a shift of perspective. It's not what I would experience as me in your shoes; empathy is what I experience as you in your shoes.*
3. *Empathy requires a constant shifting between my experiencing as you what you feel, and my being able to think as me about your experience. (p. 88)*

Empathy will not have a meaningful impact on a counseling relationship unless effectively communicated both verbally and nonverbally. After a client perceives that she or he has been accurately seen and heard by another, a supportive environment is created conducive to growth and finding solutions. The **skills** reviewed in this section will aid in communicating this message. However, the greatest challenge of learning empathic

skills lies in the integration of these skills into an interpersonal style that feels genuine to the counselor and is perceived as such by the client.¹⁰

Being able to empathize with another individual requires the ability to hear and sense the experiential world of that person.⁴ This can be a challenge when a client's experiences are totally different from your own. However, empathy is a developmental process that can be consciously fostered and strengthened by expanding life experiences with people who are different from ourselves.¹⁵ This process can also be supported through indirect encounters; watching a movie, play, or interview; or reading a biography or novel. For example, movies such as *The Philadelphia Story* or *Hoop Dreams* and books such as *Angela's Ashes* by Frank McCourt, *The Scalpel and the Silver Bear* by Lori Alvord and Elizabeth Van Pelt, or *When I Was Puerto Rican* by Susan Sheehan could be the conduit for such an experience. In this way, the range of reactions that people have for various situations can be learned.

Many skills can be employed to foster a helpful empathetic counseling interaction. The next section describes some of these in detail.

Exercise 3.5 Entering the World of Others

Think of a time in your life when you were able to enter into the emotional world of a person whose life experiences were alien to you.

- ❑ Describe the experience in your journal; explain whether in any way the experience influenced your ability to empathize with others.

3.7 Basic Counseling Responses

Nutrition counselors need a fundamental knowledge of counseling responses. The following list of basic responses is geared to accomplish three objectives: (1) to develop productive relationships, (2) to enhance

Relationship Building Responses

The following responses are particularly useful for building a relationship:

- Attending
- Reflection
- Legitimation
- Respect (Affirmation)
- Partnership
- Personal support



listening and exploring to understand clients' messages—their needs and concerns, and (3) to provide the tools to utilize motivational strategies covered throughout this text. The following responses have been identified as being particularly useful in the health care arena (because a particular response may be known by several names, alternative terms are given in parentheses)¹⁰:

1. Attending (active listening)
2. Reflection (empathizing)
3. Legitimation (normalization)
4. Affirmation (Respect)
5. Personal support
6. Partnership
7. Mirroring (parroting, echoing)
8. Paraphrasing (summarizing)
9. Giving feedback (immediacy)
10. Questioning
11. Clarifying (probing, prompting)
12. Noting a discrepancy (confrontation, challenging)
13. Directing (instructions)
14. Advice
15. Allowing silence
16. Self-referent (self-disclosing and self-involving)

Attending (Active Listening)

Attending is the most basic skill on which all other counseling skills are built. This involves giving undivided attention to your clients, listening for verbal messages, and observing nonverbal behavior. Your focus is on what you see and hear, not on what you know. This allows you to understand your clients' needs and concerns and how they view the world. Many attending behaviors are nonverbal, but some nondescript verbal sounds need to be used to convey an impression of being engaged. Ivey et al.⁴ identify four key components of attending behavior:

- **Eye contact.** Look at your client during dialogs. Refrain from staring, and permit natural breaks.

Note: there are cultural variations in the acceptability of eye contact. In some cultures a male making eye contact with a female has a sexual implication.

- **Attentive body language.** In North American culture, this generally means a slight forward trunk lean with a calm, flexible posture, and an empathetic facial expression. Gestures should be relaxed but kept to a minimum.
- **Vocal style.** Speech rate, volume, and tone should indicate concern.
- **Verbal following.** Give brief verbal and nonverbal responses, such as nods or an occasional “Hmm-hmm” or “Yes, I see,” to indicate that a client's message has been received. Responses should relate to the topic.

Listening

Nature has given men one tongue and two ears, that we may hear twice as much as we speak.

—EPICTETUS

Sometimes listening coupled with attending behavior is referred to as *active listening*. Actually, listening and attending are interrelated skills. One does not come without the other. Both are essential for the development of rapport and the communication of empathy. Murphy and Dillon¹⁵ explain the interrelationship of listening, attending, and empathy:

It is important for clinicians to create an ambience of focused attention in which meaningful communication can occur. Clinicians attend in order to listen; they listen in order to understand. Understanding contributes to empathy, and empathy engenders a readiness to respond. Thus, focused attending is an essential component of the therapeutic process. (pp. 55–56)

Nutrition counselors have been criticized for controlling too much counseling time by doing most of the talking and spending too much time giving diet instructions and advice.¹⁶ In one study, counselors who talked a great deal during sessions were described as unhelpful, inattentive, non-understanding, and disliked by the client.¹⁷ A counselor who is doing most of the talking may have “missed the boat.” Inattentive counselors solve problems and address issues important to themselves, which may not be of concern to their clients. Only by attending and listening can counselors accurately hear and understand their clients, respond appropriately, and find effective interventions. Good listening skills and attentive behavior indicate caring and

Table 3.6 Essential Components of Effective Listening

Openness	Good listeners suspend their own beliefs and submerge themselves in the other's story. They are willing to allow others to influence their perception of the world. Personal biases are put aside to hear viewpoints that could be in conflict with one's own belief system.
Concentration	<p>Conscious attention needs to be focused on the speaker while tuning out everything else including fears, rational and irrational thoughts, and peripheral noises or activities.¹⁸ If you have not been fully listening, your body language is likely to portray the fact unconsciously. This creates a barrier indicating to your client that you are not particularly interested in what he or she has to say. The most common reasons for interference with attention include the following:</p> <p>Lag time self-talk. An individual with an average intelligence can process information at speeds approximately five times faster than human speech, creating time for unproductive mental dialogue such as "Where did she buy those lovely earrings? They would go perfectly with the dress I bought for my cousin's wedding. Oh, why is my cousin marrying such a dingbat?"</p> <p>Rehearsing rebuttals. Using the extra mental capacity to rehearse rebuttals or questions will also break concentration.</p> <p>Assumptions. Assuming you know a solution and deciding that what the client has to say is uninteresting or irrelevant can interfere with communication as well.</p>
Comprehension	By attending to the first two skills of listening—openness and concentration—the counselor increases the likelihood of comprehending the meaning and importance of what was said.

concern, creating the impression that the counselor is capable and effective.

The problem for nutrition counselors, as for most people, is that listening skills are not well developed. Active listening is not simply a matter of hearing words but rather hard work requiring focused attention and concentration. Curry-Bartley¹⁸ has identified three essential components of effective listening, as demonstrated in Table 3.6.

Reflection (Empathizing)

Reflection is labeling a client's expressed verbal and nonverbal emotion. When a counselor has accurately sensed an emotional state and has effectively employed reflection responses, clients feel understood, thereby facilitating self-acceptance and self-understanding. Teyber¹⁹ explains the importance of understanding in a counseling relationship: "Clients begin to feel that they have been seen and are no longer invisible, alone, strange, or unimportant. At that moment, the client begins to perceive the therapist as someone who is different from most other people and possibly as someone who can help" (p. 49). No matter how empathic you feel, your client will not know if you do not verbally acknowledge your client's feelings. Although your body language may convey empathy, nonverbal signals could be missed or misinterpreted, especially if a cultural difference exists.

Listening Guidelines for Counseling

- Remind yourself to focus and concentrate before each session.
- Listen for meaning, not just words.
- Use thinking-speaking lag time to examine and comprehend a client's meaning.
- Avoid judgments. Be inquisitive and keep an open mind.
- Do not allow your mind to drift; bring your focus back to your client if your thoughts start to wander.
- Use verbal (uh huh, go on, I see) and nonverbal prompts (head nods, open face) to encourage talking.
- Maintain good eye contact, if culturally appropriate.

Exercise 3.6 Attending Success

Think of a time you were telling a story to someone and it was obvious that the person was engaged. In your journal, describe this experience and explain what you felt during the encounter. Did this attentive behavior surprise you? What effect did this encounter have on your relationship?

Steps in Reflecting

The following steps will help you reflect more effectively as you communicate with clients.

1. Correctly Identify the Feeling Being Expressed.

There are five major feeling categories: anger, fear, conflict, sadness, and happiness. Table 3.7 presents a list of commonly used feeling words at three levels of intensity.

This step requires careful listening and close observation of nonverbal behavior and voice quality. Sometimes you will need to rely on your intuition.²⁰ You can also imagine how you would feel in a similar situation. For example, consider this scenario:

Client: *Now that I have diabetes, I have to think about what I eat all the time. I don't know if I will ever learn to cope with this. There are so many things I have to do in life already. The children need constant attention, and I have a stressful job. It just doesn't seem possible to think constantly about my blood sugar and insulin all day.*

Feeling: *Overwhelmed*

Emotions are easy to identify for those who are demonstrative by nature and vividly display their feelings. However, people who present themselves in a straightforward and businesslike manner are not so easily understood. Dubé et al.²¹ suggest using the following question as a way to open the door to a discussion of feelings: “How has this whole illness (problem) been for you and your family—I mean, emotionally?”

2. Reflect the Feeling You Have Identified to the Client.

Drop the tone of your voice at the end of the statement; do not bring it up as if you are asking a question. Questions give a slight indication that you think the client should not feel that way and should reconsider his or her feelings.²² A reflection statement rather than a question communicates understanding and acceptance. As an illustration say the following to yourself:

Less effective: *You're really angry that the burden of your father's care has been put on your shoulders? (voice turns up at the end)*

More effective: *You're really angry that the burden of your father's care has been put on your shoulders. (voice turns down at the end)*

You may also want to begin your sentence with a *stem tentative phrase*. However, care should be taken not to overdo such phrases because they can become annoying, especially if the same one is used repeatedly. Here are some examples:

“Perhaps you are feeling . . .”

“I imagine that you're feeling . . .”

“It appears that you are feeling . . .”

“It sounds as if . . .”

“It seems that . . .”

In response to the client who seems overwhelmed in the prior example, you might say, “It seems that you are feeling overwhelmed with trying to fit the care of diabetes into your life.”

Exercise 3.7 Listening Awareness

Over the next two days, choose three distinctly different listening encounters and represent each as an *X*, *O*, and *R*. For example, listening to your mother during dinner could be represented as an *X*, listening to your friend on the telephone could be an *O*, and listening to your psychology professor could be an *R*. These are illustrated on the first line. Put the symbols in the following continuum categories on the place that best fits your style of listening for each situation. I could describe myself as:

am alert.....X.....R.....O...am bored
 feel nonjudgmental.....feel judgmental
 feel calm.....feel volatile
 listen to emotional messages.....listen only to facts
 listen attentively.....give fake attention
 think, then respond.....react before thinking
 am in the here and now.....am occupied with past or future

- ☐ In your journal, describe the context and the participants of the listening encounter, and identify the corresponding symbol on the continuum. Compare and contrast the experiences. What implications does this experience have for your counseling endeavors?

Source: Adapted from Curry-Bartley, K. R., The art of science and listening. *Topics in Clinical Nutrition*. 1:18–19 © 1986 Aspen Publishers. Used with permission from Wolters Kluwer Health.

Table 3.7 Feeling Words

Relative Intensity of Words	Feeling Category				
	Anger	Conflict	Fear	Happiness	Sadness
Mild feeling	Annoyed	Blocked	Apprehensive	Amused	Apathetic
	Bothered	Bound	Concerned	Anticipating	Bored
	Bugged	Caught	Tense	Comfortable	Confused
	Irked	Caught in a bind	Tight	Confident	Disappointed
	Irritated	Pulled	Uneasy	Contented	Discontented
	Peeved			Glad	Mixed up
	Ticked			Pleased	Resigned
Moderate feeling				Relieved	Unsure
	Disgusted	Locked	Afraid	Delighted	Abandoned
	Hacked	Pressured	Alarmed	Eager	Burdened
	Harassed	Torn	Anxious	Happy	Discouraged
	Mad		Fearful	Hopeful	Distressed
	Provoked		Frightened	Joyful	Down
	Put upon		Shook	Surprised	Drained
	Resentful		Threatened	Up	Empty
	Set up		Worried		Hurt
	Spiteful				Lonely
	Used				Lost
					Sad
					Unhappy
					Weighted
Intense feeling	Angry	Ripped	Desperate	Bursting	Anguished
	Boiled	Wrenched	Overwhelmed	Ecstatic	Crushed
	Burned		Panicky	Elated	Deadened
	Contemptuous		Petrified	Enthusiastic	Depressed
	Enraged		Scared	Enthralled	Despairing
	Fuming		Terrified	Excited	Helpless
	Furious		Terror-stricken	Free	Hopeless
	Hateful		Tortured	Fulfilled	Humiliated
	Hot			Moved	Miserable
	Infuriated			Proud	Overwhelmed
	Pissed			Terrific	Smothered
	Smoldering			Thrilled	Tortured
	Steamed			Turned on	

Source: From *Helping Relationships and Strategies*, 2nd ed. by D. Hutchins and C. Cole. Copyright © Brooks/Cole. Reprinted by permission of Wadsworth.

Exercise 3.8 Practice Reflection Responses

Over the next two days, make it a point to practice acknowledging feelings with friends, family members, coworkers, supermarket clerks, and others.

- ☐ Record in your journal three of the experiences describing when, where, and what happened. What is your impression of the effect of reflection statements?

3. Match the Intensity of Your Response to the Level of Feeling Expressed by the Client. This can be done by choosing an appropriate word in Table 3.7 or by using modifying words such as *a little*, *sort of*, or *somewhat* to soften the response or *really*, *very*, or *quite* to make the feeling response stronger. Consider the following exchange:

Client: *I hate myself! I am such a jerk! I sit in front of the television eating junk food all night!*

Counselor (less effective): *It sounds as if you are slightly annoyed with yourself.*

Counselor (effective): *It sounds as if you are very angry with yourself.*

When in doubt, it is better to undershoot rather than overshoot your response. The effect of overstating a feeling can be a denial of the feeling and backing away from a feeling discussion.¹³ Understating does not tend to have that effect; a client is likely to clarify the level of feeling—for example, “A ‘little’ happy? I’m elated!”

4. You Should Respond to the Feelings of Your Client, Not to the Feelings of Others. Take a look at this sample dialogue:

Client: *I was upset last night at dinner when my sister kept talking about my weight.*

Counselor (ineffective): *Your sister is feeling uneasy about your weight.*

Counselor (effective): *You feel annoyed when someone nags you about your weight.*

Reflection responses have been presented here as a relationship-building skill; however, this response has other advantages, too. For example, Laquatra and Danish¹⁶ emphasize the use of this response as a technique to encourage your clients to continue talking and to help clarify their problems. This clarification also helps counselors understand problems from the viewpoint of their clients.

Legitimation (Normalization)

Reflection responses involve identification and acknowledgment of a client’s feelings; *legitimation* communicates the acceptance and validation of the client’s emotional experience.¹⁰ The counselor acknowledges that it is normal to have such feelings and reactions. Usually it is a good idea to receive verification that you have correctly identified your client’s feelings before making a statement that the feelings are legitimate and make sense to you. For example:

Counselor: *It seems to me that you are feeling overwhelmed with the whole ordeal of this illness. (empathizing response)*

Client: *Yeah, it stinks.*

Counselor: *I can understand why you would feel like this. Anyone would, under the circumstances. (legitimation statement)*

This statement could also be made without first identifying the feeling if your client is especially communicative about his or her feelings. For example:

Client: *This is terrific! I am so happy! Exercise and eating all that rabbit food have really paid off. I actually enjoy all those fruits, vegetables, and whole grains. My blood pressure is so good, my doctor is taking me off medication. This is wonderful!*

Counselor: *You deserve to feel happy after getting such good results and working so hard to make changes in your life.*

Affirmation (Respect)

Respect for your clients and their coping abilities is implied by attentive listening and nonverbal behavior. However, explicit statements of respect show genuine appreciation for the worth of the client and can help build rapport, increase confidence in the ability to cope with difficult situations (self-efficacy), and encourage change talk.²²

Respect responses include words of appreciation on the ability to overcome adversity and adjust to difficult situations helping clients to recognize their strengths and capabilities. Note that affirmations are not the same as compliments or praise, which have a tone of judgment or evaluation. An affirmation should communicate the value of his or her behavior.²³ For example, “You are determined to make this new food plan work. Removing soda from your home could not have been easy.” Compare this statement to, “Congratulations! I am so proud of you.” As stated in Chapter 2, the emphasis on an affirmation statement should be on your client, not yourself. Avoid the use of *I* in an affirmation response. The fact that the client has come to a nutrition counseling session can in itself show positive coping behavior. Affirmations are one of the core counseling skills of motivational interviewing and the response was also covered in Chapter 2.

Personal Support

You should make clear to your clients that strategies for solving their problems are available, and you are there to help them implement those strategies. Your clients should know you want to help. For statements of

support to have a positive effect on building a relationship, they need to be honest. The following is an example of a supportive statement:

“There are a number of dietary options and strategies available to get your diabetes under control. I look forward to working with you to make that happen.”

Partnership

Successful interventions begin with establishing a collaborative relationship with your client. This means that the client and counselor respect each other and work together to find solutions. The following is an example of a partnership statement:

“I want us to work together to find and implement strategies that will work for you. After we talk about your problems and strengths, we will look at some options for finding a solution.”

Mirroring (Parroting, Echoing)

Parroting or *mirroring* responses repeat back to a client exactly what was said or with few words changed. This response lets a client know you are listening and encourages the person to keep talking and exploring. Care should be taken not to overdo this response, or else your client is likely to talk less. Here's an example of a mirroring exchange:

Client: *I had chocolate hidden under my bed.*

Counselor: *You had chocolate hidden under your bed.*

You may also consider echoing back a key word or key words, especially if your client has used the word repeatedly or if you want further clarification of the word. For example, your client may say to you, “My diet is a disaster.” You could echo back “a disaster” with turning up your voice or you could simply ask a question, “What do you mean by ‘a disaster’?”

Paraphrasing (Summarizing)

Paraphrasing responses are a rephrasing of the content of what the client said and meant. They can summarize prior statements or several statements of a conversation. Remember that the model of communication illustrated in Figure 3.1 indicates that alternative meanings are possible for any statement. These responses are a counselor's best guess as to what a client actually means. Paraphrasing responses let clients know you are listening, encourage clients to continue talking, and assist clients in clarifying concerns to themselves and the counselor. You

could begin this response by simply rephrasing, or you may wish to use a lead-in such as the following:

“What I hear you saying is”

“Let me see if I understand this correctly”

“So what you are thinking is”

You should not be concerned if you have missed the actual meaning because the client's typical response will be to clarify back to the counselor the intended meaning. The following is an example of a counselor using paraphrasing responses:

Client: *I was really surprised to find that my cholesterol jumped to 300. It had always been around 190. I guess now that I am well into menopause it is going to be harder to control. I thought my diet was pretty good, so this is really annoying.*

Counselor: *It must seem unfair to you to have this happen.*

Client: *Yeah. When we go out to eat with my brother-in-law, he always orders an expensive steak, loads the butter on the baked potato, and never asks for salad dressing on the side. I don't know his cholesterol level, but he is alive and kicking. Well, these are the cards I was dealt in life, and I guess I can live with it.*

Counselor: *Even though you have some negative feelings about what has happened, you think that you can cope with what has to be done to get your cholesterol under control.*

Client: *That's right. I've been reading about good foods to eat to lower cholesterol levels. I am eating oatmeal and drinking soy milk just about every day. One problem I have is with the nuts. I buy double chocolate chips to mix with the nuts to make them tastier, but I find that when I feel stressed, I am going for the chips and eating too many of them. I have got to stop that.*

Counselor: *You're looking for a way to put an end to eating the chips.*

Client: *Not really. I am looking for a way to end eating them out of control, but I guess if I am not successful, I should stop buying them.*

Note that in the last statement the counselor did not fully pick up on the client's intended meaning, but that did not present a problem. The client simply clarified her meaning and even continued with a deeper self-exploration.

Paraphrasing an extended interaction is referred to as *summarizing* (Chapter 4 provides examples of counseling summaries). Periodic summaries of what has transpired in

a counseling session can be used to transition to a new topic; integrate client behavior, thoughts, and feelings; provide closure at the end of a session; furnish a vehicle to elicit self-motivational statements; and allow checking for any misunderstandings. They communicate a sense that the counselor is listening and trying to understand. If needed, this technique can provide a “therapeutic breathing space” for counselors to make a decision on what the next step should be in the session.¹⁰ The following are possible lead-ins to summaries:

“Because our session is about to come to a close, I would like to review what we covered today so we can agree on where we are and where we are going.”

“Let me summarize what we have covered so far and see whether we are in agreement.”

Giving Feedback (Immediacy)

Giving feedback is telling clients what you have directly observed about their verbal and nonverbal behavior. Often this is not new information to your client, but by pointing out the behavior, you are inviting the client to

examine the implications and increase self-awareness. Haney and Leibsohn¹ provide the following guidelines for giving feedback: be positive and specific; note behavior, not traits; and do not put the client on the defensive. Here are a couple examples:

“When you said you wanted to give up drinking so much coffee, you looked sad.”

“I noticed that you started to wring your hands when you started to talk about your mother.”

Questioning

Questions are effective responses for gathering information, encouraging exploration, and changing the focus of a discussion. See Exhibit 3.1 for a list of questions historically found effective for clinicians.¹⁵ Although the use of questions appears to be an easily learned response, the challenge is asking appropriate questions and timing them well. Both novice and seasoned nutrition counselors have been criticized for asking too many questions to fill silence or to satisfy curiosity. Questions should be asked only if there is a particular therapeutic purpose in mind. They interrupt concentration and lead

Exhibit 3.1 Tried-and-True Questions

1. What brings you here to see me? (reasons for coming)
2. What caused you to seek help now? (timing of request)
3. How did you think I might help? (anticipation of the experience)
4. What would you like to get done today? (client as the driver)
5. Where would you like to begin? (client as the driver)
6. Can you tell me more about your situation? (elaboration of person or situation)
7. Who else is available as a support or to help in this? (situation dynamics)
8. Who, if anyone, is making things more complicated just now? (situation dynamics)
9. Have you ever spoken to a nutrition counselor before? If so, how did it go? (vision of the work)
10. Are there other things you haven't mentioned yet that would be important for me to know? (elaboration)
11. What will we look for, to know that the changes you want have actually taken place? (concretizing desired outcome)
12. What is it like for you to be talking about these things with me? (relationship building, checking in)
13. How does the work we're doing compare with what you thought it would be like? (checking in)
14. Are there any other things that should be on our list of things to talk about? (double-checking)
15. Does what I'm saying make sense? (clarifying)
16. Could you put that in other words so I can understand it better? (not knowing)
17. Can you say more about that? (elaboration)
18. What is your response to this information? (checking in and encouraging integration)

Source: Murphy BC, Dillon C. *Interviewing in Action in a Multicultural World*. 5th ed. Cengage Learning® 2015. Copied with permission of the publisher.

to a discussion of concerns that interest the counselor but not necessarily the client.

Useful Questions

Closed-ended questions elicit yes or no or short answers. They commonly begin with *is, are, was, were, have, had, do, does, or did*. For example: “Do you eat breakfast?” or “Have you ever counted calories?” These types of questions do not allow for expansion of ideas so their usefulness is limited. Additionally, they tend to influence answers because the questions hint at an expected response. For example, the question “How many fruits do you eat each day?” assumes fruits are eaten each day, and it would not be easy to give the answer “Zero.” Closed-ended questions are useful for ending a lengthy discourse or for soliciting a specific answer.

Open-ended questions give a person a great deal of freedom to answer and encourage elaboration. They commonly begin with *what* or *how*. For example: “How did your goals for the week work out?” or “What problems do you have with the diet plan?” Clients are not likely to feel threatened by open-ended questions, and they communicate interest and trust. This type of question is generally preferable when possible. However, open-ended questions can lead to rambling, lengthy answers.

Funneling questions are a sequence of questions beginning with a broad topic and narrowing down to a specific item. For example: “Can you tell me what a typical day looks like regarding your food intake?” “Do you generally drink anything with your lunch?” “What kind of milk do you put in your coffee?”

Problematic Questions

Why questions are generally to be avoided because they often sound judgmental, put clients on the defensive, and seem to require an excuse. For example: “Why didn’t you follow your plan and eat the orange when you came home from work?” Clients are likely to respond with an evasive answer that provides no useful information, such as “I don’t know.” The client is likely to feel ashamed or unnatural. If you believe an investigation into motives for behaviors or feelings is warranted, consider a how or what question: “As you look back, what do you think was going on?” or “What do you think caused that to happen?” or “How do you feel about your food records?” These types of questions set a state of curiosity and encourage clients to explore their concerns from various angles.

Multiple questions ask clients to respond to more than one question at a time. For example, “How did your goals to increase calcium work out? What did

your family think of the changes?” Clients will become confused trying to decide which question to answer first.

Question-answer traps are a series of questions causing clients to feel as if they are under interrogation. See the following example:

Counselor: *You’re here to talk about a diet to lower your blood pressure. Is that right?*

Client: *Yes, that’s right.*

Counselor: *Did your doctor give you any information about diet and blood pressure?*

Client: *No.*

Counselor: *Did your doctor talk to you about your weight?*

Client: *Yes, she said I should lose about 15 pounds.*

Counselor: *Do you want to work on losing weight?*

Client: *Yes.*

Counselor: *Have you ever been on a diet before?*

Client: *Yes, once or twice.*

Counselor: *Did you lose weight on the diets?*

Client: *Some, but I gained it back.*

Counselor: *Did you use a selection of foods from food groups on the diets you followed?*

Client: *Yes.*

The question-answer trap is not effective for several reasons. It encourages a client to give short answers, does not allow for much in the way of self-exploration, does not elicit much information, and sets up the counselor as the expert who will provide the magical solution after enough questions have been asked. In addition, a series of questions can lead to defensiveness leading to half-truths protecting self-esteem. Even a series of open-ended questions can lead to a less obvious trap. Miller and Rollnick¹³ suggest a general rule of no more than three questions in a row.

Clarifying (Probing, Prompting)

Clarifying responses encourage clients to continue talking about their concerns in order to be clear about their feelings and experiences. Stories that are not clear to you may also not be clear to your client. Clarifying responses can take the following forms:

- Communicate “Tell me more” through body language such as nods of the head or short comments such as “Uh-huh” or “Go on.”
- Use trailing words such as “and . . .” or “and then . . .” or the last few words spoken by your client.

Exercise 3.9 Practice Using Questions

Practice with a partner, each taking turns discussing an individual concern (for example, getting the children to eat breakfast, switching from regular coffee to decaf coffee, and so forth). One person should take on the role of client and the other counselor. First the counselor should ask five closed questions and then three open questions.

- ☐ Explain what happened. How did you feel during each set of questions?

- Ask clarifying questions, such as the following:
 “Can you explain that in a slightly different way?”
 “Can you think of an example in your life where that happens as well?”
 “Let me make sure I understand what you have said because it seems to me that you are sharing something very, very important.”
 “Anything else?”
 “Could you please clarify something you said earlier regarding . . .”
 “I am very interested in something you said before about Could we talk a little more about it?”

Noting a Discrepancy (Confrontation, Challenging)

Individuals often experience a great deal of resistance to making lifestyle changes and giving up comfortable behavior patterns. This is likely to lead to denial or distortions. Commonly observed discrepancies occur between two statements, verbal and nonverbal communication, stated feelings and the way most others would feel, and what the client states as a value and his or her actual behavior. A counselor who chooses to ignore discrepancies that lead to self-defeating or unreasonable behavior misses an important opportunity to help the client resolve ambivalence to change. Contradictions and inconsistencies are often not obvious, but when they are brought to our attention, they can be illuminating. When counselors point out discrepancies, clients are better able to examine their ambivalent thoughts, feelings, and behaviors. As a result, clients are better prepared to make decisions and move forward in making lifestyle changes.

There are several ways of noting a discrepancy; some are more apt to bring up resistance than others. The intent should never be to criticize or attack. When the

counselor comes across as curious, caring and nonjudgmental, the client is most likely to be able to see the discrepancy and work to resolve it. The following illustrate some ways to note a discrepancy:

- State observation without *but* (a softer approach).

Counselor: *You say you want to increase your level of physical activity, and you feel that you do not have time to exercise.*

- State observation with *but* (a harder approach).

Counselor: *When we talked earlier you said that you do not eat fruits, but you ate some of the oranges served after the Chinese meal.*

- Use “on one hand . . . ; on the other hand, . . .” expression.

Counselor: *On the one hand, you say that you would cut off your right arm to lose weight; on the other hand, you say that you do not want to exercise.*

- Tentatively name the discrepancy (with *seems, appears, could there be, have a feeling*).

Counselor: *I know you said you understood; I also get the feeling that there are aspects of these instructions you would like to go over again.*

- Directly name it (“I see an inconsistency”; “I’m hearing two things at once”).

Counselor: *I see an inconsistency between what you say about your concern for yourself because of your father’s heart attack and your willingness to cut back on your fat and sugar intake.*

No matter what wording is used to address the discrepancy, it is important to follow up with an offer to explore it further. The following provides two possible ways to make the offer:

Counselor: *How about we explore these two sides?*

Counselor: *Can you tell me more about your concern for your health? Now tell me what gets in the way of cutting back on your fat and sugar intake.*

Directing (Instructions)

The *directing* response is telling a client exactly what needs to be done. In nutrition counseling, directives are often important components of the educational portion of a session. For example, a counselor may explain to a client with a liver or kidney condition how to calculate fluid intake, or a diabetes educator may need to instruct an athlete in a new way of balancing food intake and insulin before a workout.

When giving directives, it is important to be clear and concise and to determine whether the instructions were completely understood. To be sure the message has been accurately communicated, consider asking a client to repeat back the instructions.

Advice

Advice is providing possible solutions for problems. Nutrition counselors have sometimes been criticized for giving too much advice; however, going to the other extreme and not giving any clear advice may leave your client confused and floundering.

Advice from physicians has been shown to be successful for changing smoking, exercise, and alcohol behavior.²³ To be effective, advice should (1) be given in a nonjudgmental manner, (2) identify the problem, (3) explain the need to change, (4) advocate an explicit plan of action with options if possible, and (5) end with an open-ended question to elicit a response from the client. Advice should only be given when there is a clear understanding of the problem, previous attempts to deal with the difficulty have been investigated, and the counselor has definite ideas for possible solutions.¹⁶ If these criteria have not been met, advice giving is likely to lead to a “Yes, but . . .” scenario. For example:

Counselor: *You might try walking to increase your physical activity.*

Client: *I have tried walking, but there just isn't enough time in the day.*

Counselor: *How about walking at lunchtime?*

Client: *There just isn't anywhere for me to walk at work.*

Counselor: *You could walk in the parking lot.*

Client: *Yes, but I wear high heels to work.*

Counselor: *You could bring sneakers to work and put them on for walking.*

Client: *Yes, but then I would get all sweaty, and I would not be comfortable at work for the rest of the day.*

This is an example of a counseling session going down the tubes. Obviously the criteria for giving advice have not been met. If you find yourself in a “yes, but” scenario, stop giving advice, back up, and spend more time exploring your client’s issues.

Because giving advice is a roadblock to self-exploration, the timing of recommendations is important. Generally, advice should be avoided early in a session when the goal is to understand and clarify issues. Ideally a client makes a request for advice; research indicates, however, that clients do not frequently make the request.²⁴

Another possibility is for the counselor to ask permission prior to giving advice. This makes the “yes, but . . .” response less likely. Offering the advice and then asking for a response encourages clients to truly consider the idea and even come up with ideas of their own. For example:

Counselor: *I have some ideas for increasing your physical activity. Would you like to hear them?*

Client: *Well, OK. They need to fit in my schedule though.*

Counselor: *Many of my clients who are busy like you find a way to fit a walk in at lunch or during a break. What is your response to this idea?*

Client: *That wouldn't work for me because there is nowhere to walk at my job. My neighborhood is much nicer. You know, my dog would love more of a walk in the morning. Maybe I could go farther.*

Allowing Silence

At times in a counseling interaction, silence is a valuable tool. Sometimes clients need space for internal reflection and self-analysis, possibly after an open-ended question. For a novice counselor, the thought of allowing silence may seem intimidating when there may already be a fear that silence will occur because of not knowing what to say. Also, previous social conditioning can lead one

to feel that talking is preferable to silence, no matter what the content.²⁵ Using silence effectively is an art and a skill that comes with practice. However, by attending to your client and using good listening skills, the point at which to use silence is likely to naturally flow.

In nutrition counseling, the need for silent contemplation could occur after a client has been given the results of an evaluation, during instructions of a complex dietary regimen, or after an emotional outburst due to the demands of coping with

a newly diagnosed illness. If it appears that your client needs some space to process information, then it would

Anecdote

When I was working as a hospital dietitian, I was assigned to give dietary guidance to a middle-aged man newly diagnosed with diabetes. When I walked into his room and explained the purpose of my visit, he exploded with anger, berating just about everything concerning the hospital and diabetes. When he finished, we were silent for a while, and then I acknowledged that he was obviously upset and had a right to be after all he had gone through. I asked if he would like me to come back at a later time. To my surprise, he wanted to go over the diet. We actually had a good session. I believe both the silence and the legitimization statement changed his emotional state and allowed us to explore dietary modifications.

be appropriate to divert your eyes for the moment and not maintain eye contact. Effective silent periods could be about thirty to sixty seconds.

One way to break the silence is to repeat the last sentence or phrase spoken by your client. For example, if your client's last words were "This all means making some big changes in my life," then your response could be "Some big changes in your life . . ."

Another possibility is asking your client what she or he was thinking about during the silence. A counselor should not always feel compelled to break a silence. There are times when you may want to challenge your client to formulate a response.

Self-Referent (Self-Disclosing and Self-Involving)

In a counseling relationship, there are likely to be times when shifting the focus of attention to yourself can be advantageous. The benefits of self-referent responses include increasing openness, building trust, providing a model to increase client level of self-disclosure, developing new perspectives, and creating a more impersonal atmosphere.^{6,26} If these responses occur too frequently or too soon in the counseling relationship, the result could be a "chatty" session or a perspective that the counselor is self-absorbed. In addition, a client, possibly due to a cultural perspective, may perceive that the counselor lacks discretion. Counselors should also review their "need" to share. Could this be because you have unresolved issues that need airing or are you searching for a friend? Neither of these reasons would be appropriate for a self-disclosing statement. Before using a self-referent response, a counselor should always assess whether the intended sharing will be in the best interest of the client.

Self-disclosing and self-involving responses represent two types of *self-referent* responses. A self-disclosing response involves providing information about oneself; generally this is related to coping experiences. For example, a nutrition counselor who is also a kidney dialysis patient might disclose that fact and commiserate that sometimes the diet requirements are frustrating. In another case, a counselor could explain how she herself incorporates exercise into her busy schedule.

Self-involving responses actively incorporate a counselor's feelings and emotions into a session. Laquatra and Danish²⁶ provide the following format for a self-involving response: I (the counselor) feel (name feeling) about

what you (the client) said or did. These responses can be used to provide feedback or to sensitively confront.

Here are examples of both self-involving and self-disclosing responses:

Client: *My diet has worked so well that my doctor lowered my blood pressure medication.*

Counselor: *I am delighted that you are doing so well. (self-involving)*

Client: *You are going to be so disappointed with me. I ate a ton of chocolate and didn't eat enough vegetables this week. You must wonder what I am doing here.*

Counselor: *I'm concerned that you appear to be making changes for me rather than for yourself. (self-involving)*

Client: *I've always been afraid of shots, and now I need to give myself insulin injections.*

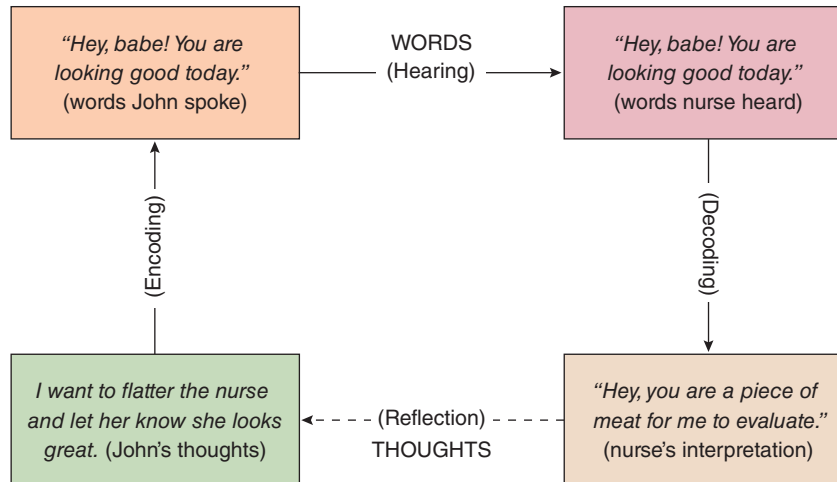
Counselor: *One of the reasons I became a diabetic counselor was because I also have diabetes. I was just like you. I wondered how I could possibly give myself shots. (self-disclosing)*

As described in the Chapter 2 Case Study, "Helping Relationships," many nursing home employees were offended by John's remarks. This greatly affected their relationship with him and the quality of care John received. John never had visitors, and it appeared that he often made scenes to receive attention in order to counteract his loneliness.

Keeping these factors in mind, Table 3.8 lists various types of responses that could have been made by a nurse to address the relationship issue and hopefully to improve the situation. A focus and an intent are identified for each response. In some cases, your interpretation of the underlying focus and intent may be different from those listed here. Also, actual reasons that a particular response is formulated will be influenced by the total context of the counseling intervention, including personalities of the counselor and counselee and the history of the relationship. In addition, your decoding of a response will be based on your life experiences, which gives you a unique perspective. As Haney and Leibsohn¹ emphasize, counseling is an art, and as a result a certain amount of ambiguity is to be expected. However, the process of evaluating why and how a certain response was phrased helps counselors in training grasp the basics of the counseling process.

CASE STUDY 3.1 Communication Analysis of John's Interactions

This case study delves deeper into the communication difficulties described in the Chapter 2 case study between John and nursing home staff. To prepare for this investigation, reread the “Helping Relationships” Case Study in Chapter 2, and review the model of communication illustrated in Figure 3.1. The following diagram illustrates distortions that occurred during the encoding and decoding process associated with a typical comment made by John to a member of the nursing staff.

**Table 3.8** Helping Relationships Case Study Response Analysis

Type of Response	Example of Nurse Response	Focus of Response ¹	Intent for Selecting a Response ²
Attending	The nurse leans forward and shows interest when John commented on something that appeared on television.	Experience	Acknowledge
Empathizing	"You must feel confused about what kinds of comments women find flattering today as compared to what you knew to be true in the 1970s."	Feeling	Acknowledge
Legitimation	"You have a right to feel angry after all you have gone through."	Feeling	Acknowledge
Respect	"It must have been some experience to have been part of the Vietnam War. You must be proud of yourself."	Feeling	Acknowledge
Personal support	"John, I want you to know that I want to help you get along better with the staff here."	Behavior	Acknowledge
Partnership	"I hope we can work together to make your experience here better."	Experience	Acknowledge
Mirroring	John says the nursing staff doesn't pay enough attention to him, and the nurse repeats the words back to John.	Experience	Acknowledge
Paraphrasing	"So what you are saying is that even though I am willing to talk to you, you don't think the rest of the staff will go along with our plan."	Thought	Explore
Feedback	"I noticed that you used the word <i>babe</i> four times this afternoon when talking to the staff."	Behavior	Explore
Question—closed	"Does it ever bother you that the nurses find some of your comments offensive?"	Feeling	Challenge

(continued)

Table 3.8 Helping Relationships Case Study Response Analysis (*continued*)

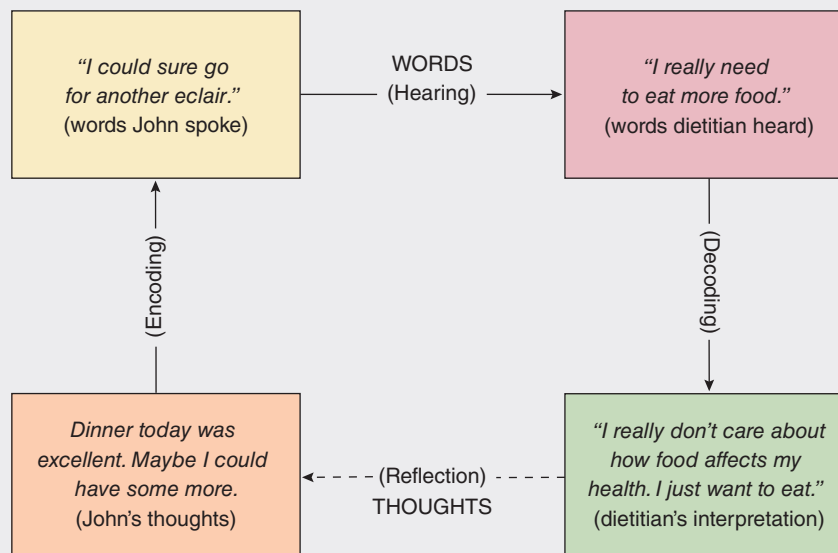
Type of Response	Example of Nurse Response	Focus of Response ¹	Intent for Selecting a Response ²
Question—open	"How do you feel about the nursing staff here?"	Feeling	Explore
Clarifying	"John, tell me more about what you want to say when you think someone is annoyed with you."	Thought	Explore
Noting a discrepancy	"On the one hand, you say the staff doesn't care about you; on the other hand, you say they bring you special treats from home."	Experience	Challenge
Directing	"Before I see you tomorrow I want you to think of two ways to compliment a staff member that you do not believe will be offensive."	Thought	Challenge
Advice	"To every action there is a reaction. If you act in a respectful manner to the staff, they will be respectful in return."	Behavior	Challenge
Silence	The nurse remains silent for thirty seconds after John bitterly complains about the staff following a question regarding how he feels about the staff at the nursing home.	Experience	Acknowledge
Self-referent—self-disclosing	"We all have times when we say things that others perceive differently. It happens with my husband and me, but we talk it through and it works out."	Experience	Challenge

¹Focus can be information or experience. Experience can be subdivided into feeling, thought, or behavior.

²Intent can be to acknowledge, to explore, or to challenge.

Exercise 3.10 Evaluating Focuses and Intentions

Continuing with the Helping Relationships Case Study communication analysis, you will explore a comment made by John about food and identify the focus and intent of responses made to him by a dietitian. Keep in mind John's complicated medical condition and a weight problem that is seriously affecting the quality of his life. Refer to your readings and the communication analysis illustrated in Table 3.8 to provide guidance for completing the response table in this exercise.



(continued)

Exercise 3.10 Evaluating Focuses and Intentions (continued)

Type of Response	Example of Dietitian's Response	Focus of Response ¹	Intent for Selecting a Response ²
1. Attending	The dietitian gently touches his arm, sits in a chair next to his wheelchair, and looks directly at him as he is speaking.		
2. Empathizing	"It's frustrating for you when you have food that you really enjoy, and the staff tells you that you can't have more of it."		
3. Legitimation	"You have a right to feel upset. Eating is the highlight of your day."		
4. Respect	"I think you have made some very difficult decisions in the past, and I will respect how you want to handle this serious weight issue."		
5. Personal support	"I want you to know that I am here to help you, even if that means making only baby steps toward your goals."		
6. Partnership	"If your weight is something you want to work on, you and I will work together to find a solution."		
7. Mirroring	John complains that all his weight is causing him a lot of problems, and the dietitian repeats his words.		
8. Paraphrasing	"So you are saying that you are willing to diet but that I shouldn't expect miracles."		
9. Feedback	"I noticed your voice became very soft when we talked about your dessert goal."		
10. Question—closed	"Are you willing to eat only one snack after dinner?"		
11. Question—open	"What do you think would work for you to help you lose weight?"		
12. Clarifying	"John, can we go back to talking about what happened at lunch yesterday? It seemed to go well and maybe you could tell me more about why it worked."		
13. Noting a discrepancy	"You say you would probably feel better if you lost some weight, but eating appears to be the best part of your day."		
14. Directing	"Before we meet for lunch tomorrow, I want you to tell me two things you think you can do to help you lose weight."		
15. Advice	"Losing weight will allow you to walk again and feel better."		
16. Silence	The dietitian asked John what he thought she could do to help him to lose weight. She waited during the silence until he was ready to answer.		
17. Self-referent—self-disclosing	"I've had times when I've had to lose weight and for me getting started is the hardest part of the process."		

¹Focus can be information or experience. Experience can be subdivided into feeling, thought, or behavior.²Intent can be to acknowledge, to explore, or to challenge.

KEY TERMS

Communication Roadblocks: obstacles that hamper self-exploration.

Counseling Focus: placement of emphasis in a counseling response.

Counseling Intent: rationale for selecting a particular intent.

Empathy: true understanding of another's perspective.

Skill: an acquired ability to perform a given task.

Synchrony: harmony of body language.

Trait: an inherent quality of mind or a personality characteristic.

REVIEW QUESTIONS

1. List six stages of skill development.
2. Define *trait* and *skill*.
3. Explain three reasons why there could be distortions of a speaker's intended meaning.
4. Explain the use of focuses and intents for formulating counseling responses.
5. What is the value of harmonizing verbal and non-verbal behaviors with a client?
6. Give three examples of effective counseling nonverbal behavior.
7. Why do roadblocks impede self-exploration?
8. Describe empathy.
9. Identify the six relationship-building responses.
10. List Ivey's four key components of attending behavior.
11. Explain the three essential components of effective listening.
12. Give one example of each of the three relative intensity levels for each feeling category: anger, conflict, fear, happiness, and sadness.

Exercise 3.4 Answers

1. Hand over mouth	should not have spoken, regret
2. Finger wagging	judging
3. Crossed arms	angry, disapproving, disagreeing, defensive, aggressive
4. Clenched fists	anger, hostility
5. Tugging at the collar	discomfort, cornered

6. Hand over eyes	wish to hide, often from self
7. Hands on hips	anger, superiority
8. Eyes wide, eyebrows raised	surprise, guilt
9. Smile	happiness
10. Shaking head	disagreeing, shocked, disbelieving
11. Scratching the head	bewildered, disbelieving
12. Making eye contact	friendly, sincere, self-confident, assertive
13. Avoiding eye contact	cold, evasive, indifferent, insecure, passive, frightened, nervous, concealment
14. Wringing hands	nervous, anxious, fearful
15. Biting the lip	nervous, anxious, fearful
16. Tapping feet	nervous
17. Hunching over	insecure, passive
18. Erect posture	self-confident, assertive
19. Slouching in seat	bored, relaxed
20. Shifting in seat	restless, bored, nervous, apprehensive
21. Sitting on edge of seat	anxious, nervous, apprehensive

Source: Arthur, D. The importance of body language. *HR Focus*, 1995; 72:22-23; and Curry, K. R., and S. P. Himburg. Establishing an Effective Nutrition Education/Counseling Program.

Exercise 3.10 Answers

The following provides possible focuses and intents of the dietitian's responses.

1. Experience, acknowledge; 2. Feelings, acknowledge;
3. Feelings, acknowledge; 4. Experience, acknowledge;
5. Experience, acknowledge; 6. Experience, acknowledge;
7. Experience, explore; 8. Thoughts, explore; 9. Behavior, explore;
10. Behavior, explore; 11. Thoughts, explore;
12. Behavior, explore; 13. Thoughts, challenge; 14. Experience, challenge;
15. Experience, challenge; 16. Thoughts, explore; 17. Experience, acknowledge.

ASSIGNMENT Observation and Analysis of a Television Interview

Observe a one-hour television or YouTube interview. Record the interview so that the program can be reviewed for analysis. Use complete sentences to answer the following questions, and number each of your answers:

- Record the name, date, and time of show observed; note who did the interviewing and who was interviewed.
- Identify the purpose of the interview.
- Explain how the interviewer handled the opening part of the interview: How did the interviewer address the interviewee (that is, Mr., Miss, first name, and so forth)? Was a rapport established? What statements were made or questions asked by the interviewer, and what body language of the interviewer facilitated or hampered the development of a rapport? Did the interviewee appear comfortable and willing to disclose information about himself or herself?
- Explain how the interviewer handled the exploration phase. Did it appear that the interviewer had preplanned and prepared an “interview guide”? Did the interviewees talk 60 to 70 percent of the time in response to questions?
- The following list contains names of responses that the interviewer could have made. Give an example for each of the following, identify whether they were effective, and give an evaluation as to the effect of the response on the course of the interview. For responses that were not used during the interview, indicate that the interviewer did not use the response and give an example of how the response could have been used.

■ Attending	■ Why questions
■ Legitimation	■ Reflection
■ Respect	■ Clarifying
■ Mirroring	■ Noting a discrepancy
■ Paraphrasing	■ Directing
■ Summarizing	■ Advice
■ Giving feedback	■ Self-disclosing
■ Open questions	■ Self-involving
■ Closed questions	
- Explain how the closing was handled. In your opinion, was this an effective way to end the interview? Why?
- Play the video for ten minutes without sound. Describe the body language of the interviewee and the interviewer. Was their body language congruent with what you heard verbally?
- Identify three things you learned from this activity.
- Are there things you observed regarding the manner in which the interviewer handled the session that you would definitely not do? What would you like to emulate in your work as a nutrition counselor?

ADDITIONAL RESOURCES

Books

Rollnick, S., R. Miller, and C. C. Butler. *Motivational Interviewing in Health Care: Helping Patients Change Behavior*. New York: The Guilford Press, 2008. Includes dialogues and vignettes illustrating core skills of MI and shows how to incorporate this brief evidence-based approach into any health care setting.

Clifford, D., and L. Curtis. *Motivational Interviewing in Nutrition and Fitness*. New York: The Guilford Press, 2016. Extensive sample dialogues illustrate specific ways to enhance conversations about meal planning and preparation, exercise, body image, disordered eating, and more. Reproducible forms and handouts can be downloaded and printed in a convenient 8 1/2" × 11" size.

Website

Molly Kellogg website, www.mollykellogg.com, Counseling Tips for Nutrition Therapists, e-newsletter, webinars.

REFERENCES

- J. H. Haney and J. Leibsohn, *Basic Counseling Responses: A Multimedia Learning System for the Helping Professions*. Pacific Grove, CA: Brooks/Cole Wadsworth, 1999.
- S. Lawn and A. Schoo, Supporting self-management of chronic health conditions: Common approaches. *Pt Educ Coun.*, 2010; 80:205–211.
- K. King and B. Klawitter, *Nutrition Therapy: Advanced Counseling Skills*, 3rd ed., Philadelphia: Lippincott Williams & Wilkins, 2007.
- A. E. Ivey, N. Packard, and M. B. Ivey, *Basic Attending Skills*, 5th ed., Alexandria, VA: Microtraining Associates, 2015.
- B. R. Fretz, R. Corn, J. M. Tuemmier, et al. Counselor nonverbal behaviors and client evaluations. *J Counsel Psych.*, 1979; 26:304–311.
- S. Cormier, P. Nurius, and C. Osborn, *Interviewing and Change Strategies for Helpers*, 8th ed., Pacific Grove, CA: Cengage Learning, 2016.
- K. R. Curry and A. Jaffe, *Nutrition Counseling and Communication Skills*. St. Louis MO: Saunders, 1998.
- M. Magnus, What's your IQ on cross-cultural nutrition counseling? *The Diabetes Educator*, 1996; 96:57–62.
- M. Kellogg, Personal Communication, September 11, 2010.
- S. A. Cole and J. Bird, *The Medical Interview: The Three-Function Approach*, 3rd ed., St. Louis MO: Saunders, 2014.
- D. Arthur, The importance of body language. *HR Focus*, 1995; 72:22–23.
- R. E. Axtell, *Gestures*. New York: Wiley, 1991.
- W. R. Miller and S. Rollnick, *Motivational Interviewing: Helping People Change*, 3rd ed., New York: The Guilford Press, 2013.
- T. Gordon, *Parent Effectiveness Training*. New York: Three Rivers Press, 2000.

- ¹⁵B. C. Murphy and C. Dillon, *Interviewing in Action: Process and Practice*, 2nd ed., Pacific Grove, CA: Brooks/Cole, 2002.
- ¹⁶I. Laquatra and S. J. Danish, Practitioner counseling skill in weight management. In S. Dalton, ed., *Overweight and Weight Management: The Health Professional's Guide to Understanding and Practice*. Gaithersburg, MD: Aspen, 1997: 348–371.
- ¹⁷D. L. Kleinke and T. B. Tully, Influence of talking level on perceptions of counselors. *J Counsel Psych.*, 1979; 26:23–29.
- ¹⁸K. Curry-Bartley, The art and science of listening. *Top Clin Nutr.*, 1986; 1:14–24.
- ¹⁹E. Teyber and F. Teyber, *Interpersonal Processes in Psychotherapy*, 7th ed., Pacific Grove, CA: Cengage Learning, 2016.
- ²⁰Danish S, D'Augelli AR, Hauer AL. *Helping Skills: A Basic Training Program*. 2d ed. New York: Human Sciences Press, Inc.; 1980.
- ²¹C. Dubé, D. Novack, and M. Goldstein, *Faculty Syllabus and Guide: Medical Interviewing*. Providence, RI: Brown University School of Medicine, 1999.
- ²²W. R. Miller and S. Rollnick, *Motivational Interviewing Preparing People for Change*, 2nd ed., New York: The Guilford Press, 2002.
- ²³C. Sauter and A. Constance, *Inspiring and Supporting Behavior Change*, 2nd ed., Academy of Nutrition and Dietetics, 2017.
- ²⁴S. Rollnick, W. Miller, and C. Butler, *Motivational Interviewing in Health Care: Helping Patients Change Behavior*. New York: The Guilford Press, 2008.
- ²⁵W. W. Dyer and J. Vriend, *Counseling Techniques That Work*. Alexandria, VA: American Counseling Association, 1988.
- ²⁶I. Laquatra and S. J. Danish, Counseling skills for behavior change. In K. K. Helm and B. Klawitter, eds., *Nutrition Therapy Advanced Counseling Skills*. Lake Dallas, TX: Helm Seminars, 1995.

4

Meeting Your Client: The Counseling Interview



Iswoop/Alistair Berg/Getty Images

Learning Objectives

- 4.1** Explain the usefulness of counseling models.
- 4.2** Describe the motivational nutrition counseling algorithm.
- 4.3** Use a variety of readiness-to-change assessment tools.
- 4.4** Demonstrate selected counseling strategies.
- 4.5** Depict parts of a counseling interview.

There are two ways of spreading light; To be the candle or the mirror that reflects it.

—EDITH WHARTON

Chapter 2 provided a review of a variety of behavior change and counseling theories and models. This chapter builds upon those approaches to formalize a concept of the nutrition counseling process. We begin by looking at a model that depicts an overview of the complete nutrition counseling procedure. Then, we will examine a motivational nutrition counseling algorithm for an individual counseling session that draws on evidence-based best practices. Several approaches for assessing motivation to change are offered. In addition, special considerations for acute care counseling and brief interventions are addressed.

4.1 Nutrition Counseling Models

Models and algorithms can provide structure for conceptualizing the counseling process. These are aids for planning, implementing, and evaluating a counseling intervention because the session can be broken into component parts and addressed individually. The actual flow of a counseling session will adjust to the skills of the counselor and to the needs of the client. However, some structure can help a counselor visualize the direction of the counseling experience as well as the expected end point.

Figure 4.1 provides a model for nutrition counseling that can be used to visualize the major components of the total interaction a counselor has with a client. This model addresses the need for counselors to assume

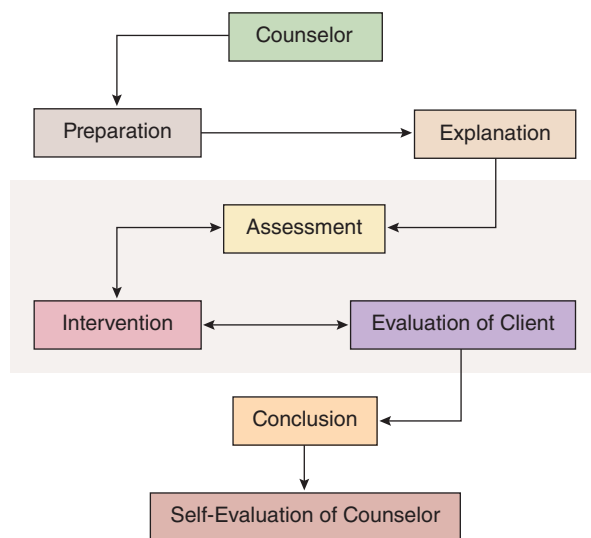


Figure 4.1 Model for a Nutrition Counseling Program

Source: L.G. Snetselaar, *Nutrition Counseling Skills for Medical Nutrition Therapy*, © 1997 Aspen Publishers.

Adapted with permission of Jones and Bartlett Learning, Sudbury, MA. www.jblearning.com.

Exercise 4.1 Explore Counseling Models

Review the counseling model presented in Figure 4.1. List two activities you might do to address the function depicted in each box.

several roles to accomplish counseling tasks. As a diagnostician, a nutrition counselor reviews medical records, food patterns, medication intake, health history, socioeconomic conditions, and other factors. This *preparation* occurs before the first counseling session, during the first session, and periodically thereafter to better understand problems, skills, and resources related to food intake and readiness to take action. Nutrition counseling also requires an educational component that entails an *explanation* of the counseling process. In addition, nutrition counselors repeatedly assume the role of educator when communicating pertinent nutrition information or providing hands-on educational experiences. During the *intervention* or treatment component of counseling, nutrition counselors take on the role of problem solver and expert using a variety of intervention strategies to help implement dietary goals.¹ Counselors assume the role of diagnostician to assess intervention strategies and evaluate client progress. The *assessment*, *intervention*, and *evaluation* components are part of each counseling session until the decision is made to conclude the program. At the *conclusion* of each session as well as the total program, the nutrition counselor resumes the role of expert when reviewing major issues and goals. The counselor becomes a learner in the last component involving *self-evaluation*. Here the objective is to learn from specific counseling experiences for the purpose of improving helping skills.

You cannot teach a man anything; you can only help him find it within himself.

—GALILEO

4.2 Nutrition Counseling Motivational Algorithm

A motivational nutrition counseling algorithm is presented in Figure 4.2 to direct the flow of a nutrition counseling session. This algorithm is based on one developed by Berg-Smith et al.² It takes into consideration that motivation is the underlying force for behavior change and that clients come into counseling at varying levels of readiness to take action. This algorithm incorporates concepts from several intervention models and behavior change theories covered in Chapter 2 to provide the guiding force to influence

motivation and change lifestyle behavior, including the following:³⁻⁸

- the Transtheoretical Model
- Motivational Interviewing

- Solution-Focused Brief Therapy
- Self-efficacy

This algorithm provides the direction for the counseling interview and counseling protocol found in this

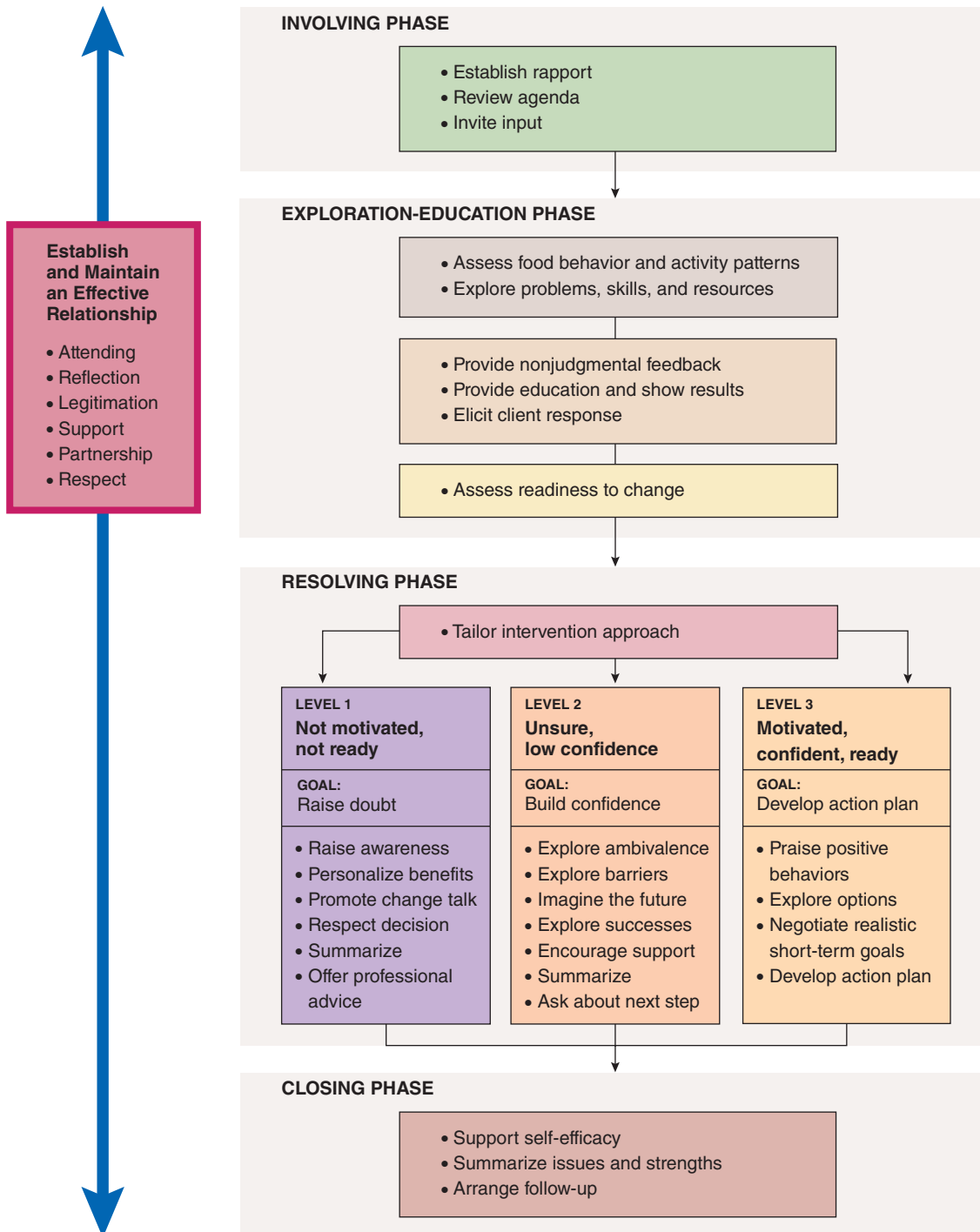


Figure 4.2 Motivational Nutrition Counseling Algorithm

Source: S. M. Berg-Smith, V. J. Stevens, K. M. Brown, et al., A brief motivational intervention to improve dietary adherence in adolescents. *Health Education Research*, 1999; 14(3):399–410.

chapter and for each session of the step-by-step guided counseling intervention outlined in Chapter 14 of this book.

4.3 Assessing Readiness

The motivational nutrition counseling algorithm presented in Figure 4.2 provides for three levels of motivation requiring a need to make an assessment of readiness to change. Professionals have offered a variety of strategies to assess motivational level. The strategies generally attempt to identify a particular stage of the Transtheoretical Model, or a person identifies a position on a scale. Not all counseling situations lend themselves to a formal type of assessment, particularly when monitoring on a regular basis. The following describes four procedures for conducting readiness assessments:

1. **Stage of Change algorithm.** Figure 4.3 presents an algorithm containing questions to determine stage of change for adopting a low-fat diet. It can be easily modified to assess stages for other dietary factors. This algorithm has been used in several nutritional studies.
2. **Readiness-to-change open-ended questions.** Simple open-ended questions can be effective to assess readiness to change:
 - How do you feel about making a change now?
 - People differ in their desire to make changes. How do you feel?
 - When thinking about changing food habits, some people may not feel ready, others may feel they need time to think it over, and some people feel ready to start making changes. What are you feeling?
3. **Readiness-to-change graphic.** Another possibility to assess readiness is showing a graduated picture of a thermometer, ruler, or chart. See Figure 4.4 and Lifestyle Management Form 4.1 in Appendix C for a picture of a readiness graphic using ten numbers. You begin by asking your client to look at the picture and identify a spot on the graphic that indicates how ready he or she is to make a change. Some people have an easier time responding to a visual representation of their readiness level. This method has been incorporated into the step-by-step guide for four counseling sessions found in Chapter 14. We have found that a physical tool for this assessment is useful for beginning counselors.
4. **Readiness-to-change scale question.** A similar method can be used without a tool by simply

asking: “On a scale from 0 to 10, with 0 being ‘not at all’ ready and 10 being ‘totally ready,’ which number represents how ready you are to make this change?”

5. **Dietary adherence assessment.** Assessment scales described in one through 4 can be used to appraise adherence to a dietary protocol. In that case, *not ready* is equivalent to “never follow the dietary guidelines,” and *ready* corresponds to “always follow the guidelines.”

Exercise 4.2 Practice Using Readiness-to-Change Assessments

Find a friend or relative willing to allow you to assess his or her motivation level regarding a needed behavior change. Use the algorithm assessment tool in Figure 4.3, one of the readiness-to-change open-ended questions, the readiness-to-change graphic (Lifestyle Management Form 4.1 in Appendix C), and the readiness-to-change scale question.

- ❑ In your journal, compare and contrast the techniques, and indicate which one gave you the clearest picture of the individual's readiness to make a change.

Exercise 4.3 Assess Importance, Confidence, and Readiness

Select five lifestyle behaviors you would like to evaluate and list them in your journal. Use the following readiness-to-change scale questions to assess importance, confidence, and readiness for making a change: With the number one indicating *not ready* and ten representing *totally ready*, how do you feel right now about your readiness to make the change?

With the number one indicating *not important* and ten representing *very important*, what number represents how important it is for you to make a change right now?

If you decide to change, how confident are you that you will succeed on a scale of one to ten, with one signifying *no confidence* and ten indicating *very confident*?

Put the scores in columns with the change categories as headings. For example:

	Readiness	Importance	Confidence
Use my seat belt for every car trip.	7	10	8

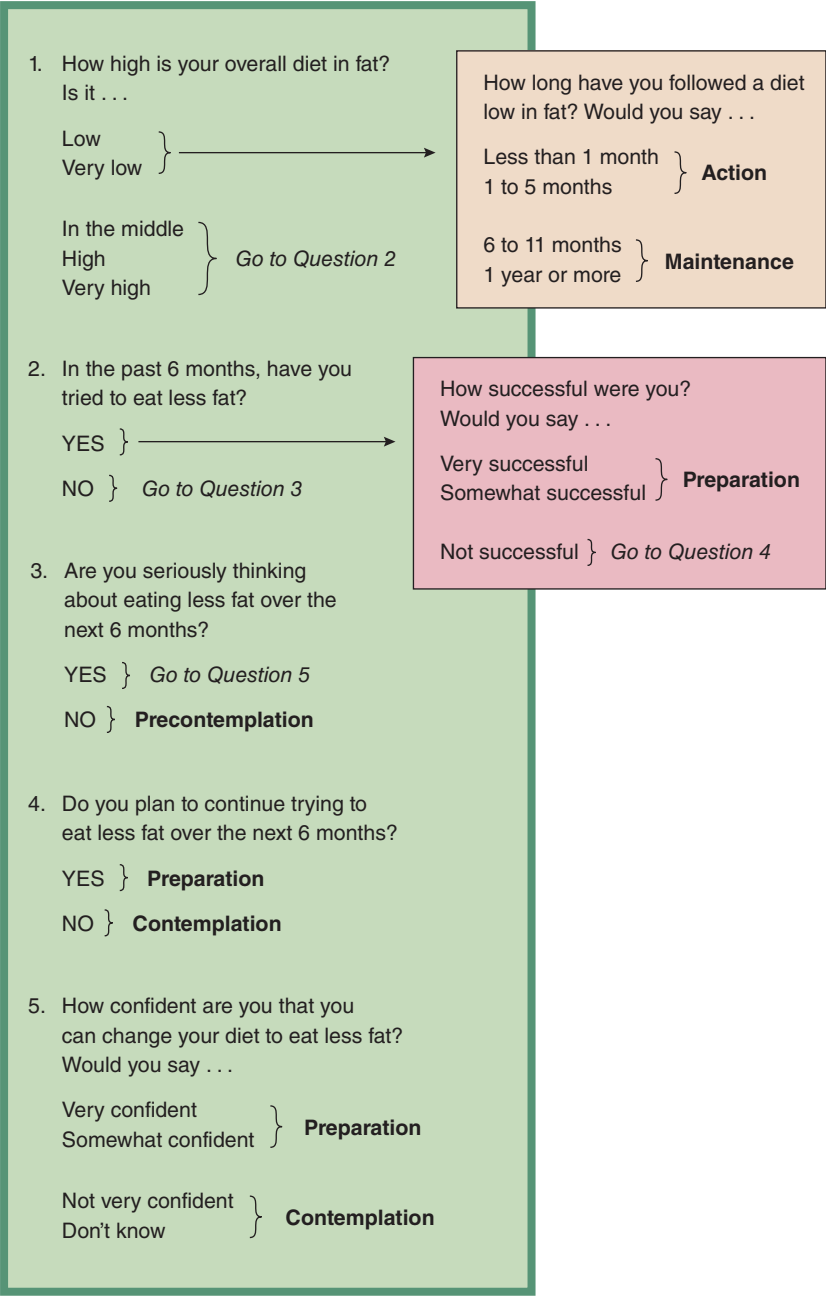


Figure 4.3 Questions and Algorithm Used to Assign Stages of Change for a Low-Fat Diet
Source: Reprinted from the *Journal of the American Dietetic Association*, 99:680, Kristal A.R., Glanz K., Curry S.J., Patterson R.E., How can stages of change be best used in dietary interventions? © 1999, with permission from Elsevier.

NOT READY				NOT SURE	NOT SURE				READY
1	2	3	4	5	6	7	8	9	10

Figure 4.4 Readiness-to-Change Graphic
Source: Stott, et al. Innovation in clinical method: Diabetes care and negotiating skills. *Family Practice*. 1995; 12:413–418. Adapted with permission from Oxford University Press.

- **Assessment of importance and confidence.** Assessment scales described in one through four can be used to importance and level of confidence, two components of readiness. In these cases, the ends of the continuum are “very important” or “very confident” and “not important” or “not confident.” These assessments provide a clearer picture of how someone feels about change and helps the counselor to know what to stress during an intervention.

4.4 Nutrition Counseling Protocols: Analysis and Flow of a Counseling Interview and Counseling Session

The following nutrition counseling protocols are based on the motivational algorithm for a counseling intervention presented in Figure 4.2. Table 4.1 presents an overview of the tasks and objectives covered in each phase of the algorithm. The word *interview* refers to

Table 4.1 Overview of the Counseling and Interview Process

Phase	Possible Tasks ¹	Objectives
Involving (Engaging)	<ul style="list-style-type: none"> • Begin with greetings and introductions. • Identify client’s long-term behavior change objectives. • Explain rationale for recommended diet. • Explain counseling process. • Set agenda. • Summarize. 	<ul style="list-style-type: none"> • Establish rapport, trust, and comfort. • Communicate an ability to help. • Interact in a curious and nonjudgmental manner.
Exploration—Education (Focusing and Evoking)	<ul style="list-style-type: none"> • Offer educational activities. • Assess food behavior, activity patterns, and past behavior change attempts. • Explore problems, skills, and resources. • Give nonjudgmental feedback. • Elicit client response. • Assess readiness to change. 	<ul style="list-style-type: none"> • Provide information. • Show acceptance. • Learn nature of problems and strengths. • Promote self-exploration by the client. • Clarify problems and identify strengths. • Help the client to evaluate the situation.
Resolving (Planning)	<ul style="list-style-type: none"> • Tailor intervention to the client’s motivational level. 	<ul style="list-style-type: none"> • Help the client make decisions about behavior change. • Indicate that the client is the best judge of what will work.
Closing	<ul style="list-style-type: none"> • Support self-efficacy. • Review issues and strengths. • Restate goal(s). • Express appreciation. • Arrange follow-up. 	<ul style="list-style-type: none"> • Provide support. • Provide closure.

¹ The specific tasks to be addressed are dependent on motivational level and needs of your client as well as previous interactions with your client (for example, the first session or the fourth session).

the collection of valid and accurate data, whereas the word *counseling* implies that a counselor is assisting an individual in making life change decisions. Because nutrition counselors address both tasks in their interactions with clients, the terms have been combined. The following narrative offers a step-by-step guide for conducting a nutrition counseling session. The guide is organized into the four phases identified in Table 4.1 and Figure 4.2. The flow of the tasks and strategies follows the motivational nutrition counseling algorithm illustrated in Figure 4.2. The guide is provided to (1) give direction to a novice nutrition counselor, (2) furnish a counseling framework that can be molded to fit individual talents and needs, and (3) supply a springboard on which to build skills. There is no perfect method for all individuals, but the guide includes what is generally considered standard in nutrition counseling.

4.5 Involving Phase

The first stage of the counseling session is the involving phase, which includes such relationship-building activities as greeting the client and establishing comfort by making small talk, opening the session by identifying the client's goals and long-term behavioral objectives, explaining the counseling process, and making the transition to the next phase.

Greeting

The greeting sets the stage for the development of a trusting, helping relationship. At the beginning of each session, your greeting should indicate a sense of warmth and caring. The tone of your voice and your body language should convey the message that you are happy to meet your client. This is especially important for the initial session because a first impression is a lasting impression. As Will Rogers said, "You never get a second chance to make a first impression." The manner in which you and your client will address each other should be established. In many institutional settings

and among some ethnic groups the custom will be to use a formal Mr., Mrs., or Miss. In less formal settings such as a health center or rehab program, calling clients by their first name may be more appropriate. If in doubt, start out using a formal address or both names, such as "Mrs. Jones" or "Sally Jones." Inquire how the client should be addressed, such as "Do you prefer to be called Mrs. Jones or Sally?" Generally you should not use a client's first name unless given permission. Hospitals are likely to have a protocol upon entering a patient's room such as indicating who you are, the reason for your visit, and asking the patient to identify his or her name and birthday. Be sure to introduce anyone who is accompanying you, such as a colleague or an assistant. If there are friends or relatives with your client, be sure to also acknowledge and warmly greet them.

Establish Comfort

Aim to create a private and quiet environment. When the session has begun, pay attention to your own comfort level as well as that of your client. For example, sun in the eyes can be extremely distracting, as can a loud radio in an adjacent room.

Small Talk

After your greeting, it may be appropriate to engage in some small talk, depending on the setting and the amount of time you have for the session. Generally, this should be limited to a question or a comment about the office or building where the meeting is taking place or the weather. This verbal exchange can aid in the development of a comfortable atmosphere, but if carried on for more than a few comments, the counseling experience may be hampered by creating a superficial atmosphere that can permeate into the rest of the session.

Particularly stay away from comments unrelated to the client or counseling experience, such as a current story in the news.

Anecdote

A review of the intake records of a ninety-year-old, new resident in the nursing home where I consulted indicated that this person had grown up on a farm close to where the nursing home was located. When I walked into this woman's room to introduce myself and do a diet consultation, I found the woman sitting in a corner facing the wall with a scowl on her face. As I attempted to talk to her, her body language and grunts did not change until she realized what I was saying. I was telling her she had come home. I explained to her what I meant and her facial expression and body language changed completely. She then had no trouble hearing me, and we talked a little about what it was like growing up on the farm. After that experience, I always tried to find something special about new residents from the records. It was a great way to develop rapport.

Opening—First Session

A common opening after the greeting and small talk is to ask an open-ended

question in a curious manner, such as, “When we talked on the phone, you said the doctor told you that your blood pressure is elevated. What are you hoping to achieve in counseling?” or “What brings you here today?” or “How can I help?” This begins the process of attempting to understand your client’s needs, expectations, concerns, and coping strengths. As clients clarify their needs, the direction to pursue intervention strategies becomes clearer. Some clients need time to feel truly comfortable expressing their thoughts and feelings. King⁹ notes that some clients could take up to three sessions before they are relaxed enough to communicate openly. Examination of your client’s issues will be more fully developed in the next phase (exploring) and in subsequent sessions as well. For now, emphasis should be placed on the following specific counseling approaches during this part of the encounter:

- Relationship-building responses. There will probably be opportunities to use several of the relationship-building statements, particularly empathizing, legitimization, and respect.
- Reflective listening. This skill can aid in understanding client issues.
- Responses that indicate attentiveness and help clarify meanings. These include paraphrasing, summarizing, clarifying, and asking open-ended questions.

Opening—Subsequent Sessions

In subsequent sessions, an opening question is used to invite input, such as “where would you like to begin?” or “How have things been going since we last talked?” This gives a client an opportunity to address any burning issues before getting into your agenda, or you may decide to alter your agenda based on your client’s immediate concerns.

Identifying Client’s Long-Term Behavior Change Objectives (General Goals)

While discussing your client’s needs and expectations, a long-term goal or goals should be established. This topic needs to be covered in the first session and periodically reviewed thereafter if there is long-term involvement. Goals can be general in nature, such as to feel better or to improve the nutritional quality of food intake. If possible, set at least one measurable long-term goal, such as reducing cholesterol to 190 milligrams/deciliter or keeping blood sugar levels below 160 milligrams/deciliter. Specific goals are needed for measuring

outcomes. If your client comes in with a vague goal, such as improving diet quality, you can collaborate with your client after an assessment to establish more specific goals that can be evaluated. For clients who wish to lose weight, efforts should be made to encourage clients to set realistic and maintainable goal weights and to focus attention on setting goals related to healthful eating, physical activity, stress management, and sleep behavior. The Academy of Nutrition and Dietetics recommends a weight loss goal of 5 percent to 10 percent within six months.¹⁰ Be sure to listen carefully to what your client says is important to him or her. If your client received a diet prescription from a physician, provide a rationale for the diet.

Explain Program and Counseling Process—First Session

At the beginning of the first meeting, your client should receive a description of what will happen in the course of the counseling program. This would include a description of the assessment tools, a general statement regarding the issues that will be discussed, and a survey of possible intervention strategies and activities. Review frequency of meetings and correspondence by telephone, email, or text messaging.

Discuss confidentiality. A partnership statement is appropriate, clarifying your role as a source of expertise, support, and inspiration and your intention to work collaboratively with the client to make decisions about lifestyle changes. Your comments should indicate that ultimately the client will be making decisions, for he or she will be the one to implement changes and is also the best judge of what will work. This is particularly important in cases of acute illness, such as diabetes, where dietary practices are an integral component of care, and in reality it is a self-managed disease.

Many programs use a counseling agreement form to verify that many of these topics have been addressed. Lifestyle Management Form 14.2 in Appendix C is an example of such a form. Be sure to also review what your client is hoping to receive from a nutrition counselor. Here is an example of this part of the involving phase:

Counselor: *As we start the counseling process, I’d like to share with you my hope of how we will be working together. I see myself as a source of information, support, and inspiration for you as we work together to find solutions for your issues. I hope to assist you in making an informed choice about what behaviors to change and whether or not to change the behavior*

at all. I can help you learn about healthy options and possible strategies, but only you know best what will fit into your life and what you are willing to tackle. I would like us to work together to build on skills that you already have for dealing with your nutrition issues. How does this sound to you? Do you see things differently?

Discuss Weight Monitoring, if Appropriate— First Session

If you have a client who would like to lose weight, discuss how to handle weight monitoring. Authorities do not agree how often dieters should weigh themselves.¹¹ Weights can be taken once a day, once a week, or once a month. Also, nutrition counselors are not in agreement on whether counselors should be doing the actual weighing for uncomplicated outpatient weight loss to occur.

You want the focus of your sessions to be on making changes that allow weight loss to occur, not on numbers on a scale. Because several physiological factors can affect the reading, a one- or two-pound weight loss may not be readily seen. If a counselor is weighing a client, and the scale does not show a loss, this can have a negative impact on the whole counseling session. Discuss with your clients if they would like you to weigh them and how often. Sometimes clients prefer that you do the weighing and want the added pressure of someone else knowing their weight to help them maintain their food goals. If you set a long-term goal with your client of losing a specified amount of weight, measuring that outcome would be difficult if you never personally took your client's weight. Let your clients be the guide as to how they would like to handle the matter of taking weights. See Exhibit 4.1 for an alternative opinion regarding weight monitoring for clients with uncomplicated health issues. Also, consider using other parameters of health to monitor changes in health status, such as waist circumference, percent body fat, blood pressure, and cholesterol or A1C levels. In some individuals, these values may be more responsive to lifestyle changes than numbers on a weight scale.

Setting the Agenda—First Session

Establish and agree with your client as to what will be covered in the counseling session. For your first session this probably means going over the flow of the session—explaining the assessment process, reviewing preliminary results, selecting a food habit to address, assessing readiness to take action, and then setting a goal and plan of action (if ready), or exploring ambivalence and providing information (if not ready).

Exhibit 4.1 Debate Over Dieting

Authorities do not agree on how much emphasis should be placed on body weights and the concept of a “diet.” Some advocate a weight-neutral approach and emphasis placed on healthy eating, exercise, stress management, sleep behavior, and body size acceptance. Some are concerned that too much importance on dieting contributes to body dissatisfaction among girls and women, which may lead to bingeing behavior, bulimia, and a host of other physiological and psychological problems.

Advocates of the non-diet approach maintain that healthful changes in eating and other lifestyle behaviors without “dieting” can have a positive impact on health.¹² In the successful Kentucky Diabetes Endocrinology Center, many patients gained good control over diabetes, blood pressure, and blood lipids without placing primary emphasis on body weight.¹³ The non-diet approach to nutrition counseling including mindful eating is covered in Chapter 6.

Setting the Agenda—Subsequent Sessions

Before your meeting, review your notes regarding previous sessions, and prepare educational experiences or materials as indicated. Ask your client for any issues he or she would like to address during your meeting, explain your intentions for the session, and then come to an agreement for an agenda. You may have additional assessment data to share with your client, and this may result in new behavior change options to address.

Transitioning to the Next Phase

Before entering into the exploration-education phase, make a statement indicating a new direction:

Counselor: *Now that we have gone over the basics of the program, we can explore your needs in greater detail.*

4.6 Exploration–Education Phase

During this phase, a nutrition counselor and client work together to understand a client's nutrition and lifestyle problem, search for strengths to help address difficulties, assess readiness to take action, and provide educational experiences. Counselors need to provide a nonjudgmental environment so clients feel free to elaborate on pertinent issues. A counselor's verbal and nonverbal behavior should be viewed as curious rather than investigative. Responses covered in Chapter 3 that can be especially

useful to advance exploration include open questions, paraphrasing, reflection, probing, and directives.

Educational Activities

During your first session, assessment activities are likely to be time-consuming, resulting in too little time for involved educational activities. The main educational task should be to address health risks associated with your client's eating pattern, although there are likely to be opportunities to provide sound bites of information as a client expresses concerns and asks questions. The educational experiences of subsequent sessions should be geared to your client's needs and desires as determined during the assessment process. See Chapter 6 for a discussion of integration of information giving in a counseling session.

Assessment—First Session

Assessment is an important component of the counseling process to tailor an intervention to the needs of a client. Basic dietary and physical assessment procedures and commonly used forms in nutrition counseling are addressed in Chapter 5. While collecting information or reviewing completed forms, do not react with advice, criticism, praise, or judgment, as this could inhibit disclosure. If at all possible, counselors should refrain from asking a series of questions to gain information as this hampers engagement. A more satisfying and valuable method would be to encourage discussions at certain points to allow clients to provide insight about their life experiences. Miller and Rollnick⁵ suggest at least ten minutes of open-ended questions and reflection responses before beginning a structured assessment. In fact, you might find most of the needed information is obtained from this interaction. Hopefully these ideas reduce the negative effects of completing forms and interfering with the development of an effective counseling relationship.

Often counselors attempt to have clients complete assessment or screening forms before the first session. This approach saves valuable counseling time and allows clients to focus ahead of time on issues and counseling expectations. If that is the case, when you do meet with your client, avoid rehashing exactly what is on the forms, but encourage open discussion of what the experience was about. Consider the following example:

Counselor: *Thank you for completing these forms. The information in them will be helpful as we work*

together to search for solutions for your food problems. I am wondering, what came to your mind as you were filling out these papers? What topics covered in these forms do you think have particular importance for your food issues?

Did you feel a need to expand or clarify any of your answers? Which ones? Did it prompt you to think about what you would like to cover in our sessions together?

Here are some appropriate topics to explore with your clients:

- Concerns about health risks associated with current eating behavior
- Concerns about changing food patterns
- Past lifestyle change successes
- Past experiences trying to change food habits by themselves, with the aid of a nutrition counselor, or in an organized program
- Difficulties with making food habit changes in the past
- Strategies that worked or did not work when attempting to make a lifestyle change
- Selection of education topics to address in future sessions

If you have enough time in a counseling session (six to eight minutes), consider using “a typical day” strategy,

which is similar to the diet history interview described in Chapter 5. This method encourages clients to drive the assessment discussion and to tell their “stories.” If the story goes on for more than eight minutes, however, the activity becomes tiring for both parties, and the counselor should intercede to speed up delivery. Exhibit 4.2 provides guidelines for using this strategy.

Anecdote

The first time I ever counseled a client was in a nutrition counseling class in college. The person assigned to me volunteered to participate because his doctor told him his cholesterol was slightly elevated. The first day I saw him, he made it clear that he was looking for dietary information related to this issue. I didn't actually address this concern until our fourth session. Until that time, I thought he was uncooperative and disinterested, and then I saw a new client. At that point I understood what I should have been doing from the first meeting.

Assessments—Subsequent Sessions

Generally, assessment activities are the most intense during the first session, but assessments should be made periodically to assist in setting new goals and to monitor progress. The assessment graphic (Figure 4.4) discussed earlier can be used to appraise how closely a client has been following a goal or a dietary protocol. Follow the adherence question with simple open-ended questions to gain a deeper understanding of a client's progress.

Exhibit 4.2 Guidelines for Using “A Typical Day” Strategy**1. Introduce the task carefully**

Sit back and relax! Ask the client a question such as, “Can you take me through a typical day in your life, so that I can understand in more detail what happens? Then you can also tell me where your eating fits in. Can you think of a recent typical day? Take me through this day from beginning to end. You got up . . . ”

2. Follow the story

- Allow the client to paint a picture with as little interruption as possible. Listen carefully. Simple open questions are usually all you need—for example, “What happened then? How did you feel? What exactly made you feel that way?”
- Avoid imposing any of your hypotheses, ideas, or interesting questions on the story you are being told. Hold them back for a later time. This is the biggest mistake made when first using this strategy. Don’t investigate problems!
- Watch the pacing. If it is a bit slow, speed things up: “Can you take us forward a bit more quickly? What happened when . . . ?” If it is a bit too fast, slow things down: “Hold on! You are going too fast. Take me back to . . . What happened . . . ?”
- If you are uncertain about details, and you are satisfied that you are being curious rather than investigative, ask the client to fill them in for you.
- You know you have it right when you are doing 10 to 15 percent of the talking, the client seems engaged in the process, and lots of interesting information about the person is emerging.

3. Review and summarize

A useful question at the end of your client’s story is, “Is there anything else about this picture you have painted that you would like to tell me?” Now is the time to ask probing questions to clarify any descriptions, such as “Can you tell me what kind of bread you usually use to make your lunch sandwich?” This is also a good opportunity to be honest with the client about your reaction and to provide legitimization responses wherever possible. Having listened so carefully to the client, you will now be able to explore other topics quite easily. Often this leads into an investigation for the need for general information—for example, “Is there anything about . . . that you would like to know?”

Source: Rollnick S., Mason, P., Butler, C., *Health Behavior Change: A Guide for Practitioners*, New York: Churchill Livingstone; © 1999, pp. 113–114. Used with permission.

Exercise 4.4 Practice Using “A Typical Day” Strategy

Review the guidelines in Exhibit 4.2 for using “a typical day” strategy. Work with a colleague, taking turns role-playing counselor or client.

- Write your reactions to this activity in your journal. What were your thoughts and feelings while you were the counselor? The client? How would you use this activity in an actual counseling interaction? What did you learn from this activity?

Counselor: Please look at the picture of this graphic. What square would you pick to describe how closely you have been following your food plan? Tell me something about the square you chose. Why did you choose the square you did?

Giving Nonjudgmental Feedback

Assessment results should not be simply handed to a client but reviewed in a neutral manner. Counselors need to provide clear norms for comparison, such as a therapeutic dietary protocol or the Dietary Reference Intakes. Some assessment forms have a standard on the form. (See Lifestyle Management Form 5.3 in Appendix C.) Give only the facts, allowing the client to make the initial interpretation. If you have a great deal of feedback to provide, pause regularly to allow the client to process the information and to check for comprehension:

Counselor: Your assessment indicates an intake of $\frac{1}{2}$ cup of vegetables a day. As you see, the standard recommendation based on the government guidelines is $2\frac{1}{2}$ cups a day.

Eliciting Client Thoughts About the Comparison of the Assessment to the Standard

Curiously ask simple open-ended questions to encourage a client to explore the meaning of the results through questions and personal reflection. The ideal response from a client would be something like “I see, I didn’t really give much thought to this before,” or “I’m wondering if ...” This approach provides an opportunity for people to discover discrepancies between their condition and a standard and to make self-motivational statements as discussed in the section on motivational interviewing in Chapter 2.

Counselor: *What do you think about this information?*

Do these numbers surprise you?

I have given you a lot of information. How do you feel about what we have gone over?

Did you expect the evaluation to look different?

If your client does ask you for clarification or meaning, present the information in a nonthreatening manner by avoiding the word *you*. For example, “People who have a low intake of vegetables are at a higher risk for developing several types of cancers”—not “You have an increased risk for developing several types of cancers.” Nor should a counselor tell a client how he or she should feel about the feedback—for example, “You should really be concerned about these numbers. They increase your risk for developing cancer.” An alarming explanation interferes with the decoding process, causing explanations to be misunderstood and increasing resistance to change.

Determining What’s Next

After an assessment, it is generally a good idea to summarize; include what the client is doing well, problems identified in the assessment, any self-motivational statements made by the client, and ask the client whether the summary needs any additions or corrections. You could include any ideas that the client picked up on. For example, “you like the idea of eating more fish and plan to do that right away.” After confirming that your summary was accurate, your next task is to ask your client how he or she would like to proceed. Knowing there are acceptable options may assist a client in deciding to make a change. If your client asks your advice, give your impressions, provide options, and indicate that the client would know best what would work for him or her.

Assessing Readiness to Make a Change

At this point, your client may have clearly indicated a desire to make or not to make a behavior change. If that

is the case, you will need to use your judgment about making a formal assessment for readiness. If you are using a continuum scale such as the assessment graphic in Lifestyle Management Form 4.1 in Appendix C, you may decide to check for importance and confidence as well as readiness.

Counselor: *To get a better idea of how ready you are to make a food behavior change, we will use this picture of a ruler. If 0 represents not ready and 10 means totally ready, where would you place yourself?*

There are actually two parts to readiness, importance and confidence. I think it might be useful to look at them separately. Using the same scale, how do you feel right now about how important this change is for you? The number 0 represents not important, and 10 is very important.

The other part of readiness is confidence. If you decided to change right now, how confident do you feel about succeeding? The number 0 indicates not confident at all, and 10 represents very confident.

4.7 Resolving Phase

In the involving and exploration phases, the major objective was to assist clients in clarifying problems and identifying strengths to themselves and to the counselor. The direction of the remaining time of the counseling session will be determined by a client’s motivation category.

In the nutrition counseling motivational algorithm depicted in Figure 4.2, two pre-action motivational levels are illustrated to address the needs of the majority of individuals with a dietary problem.¹⁴ In the first and possibly the second levels, the major issue related to motivation is likely to be the importance of changing behavior. Those who are in a higher stage or higher number on a continuum are likely to feel the behavior change is important but are struggling with confidence in ability to make a successful change.¹⁵ Therefore, in the following analysis of the resolving phase, Level 1 counseling approaches will deal with importance, Level 2 with confidence issues, and Level 3 with selection of a goal and design of an action plan. Although the motivational levels are represented as three distinct entities, counselors need to be flexible in their approach to accommodate fluctuations in motivation level that can occur during an intervention. In such cases, there may need to be a cross-over in selection of counseling approaches among the three motivational levels. A summary of the counseling approaches for each level of readiness to change is presented in Table 4.2.

Table 4.2 Resolving Phase Summary of Tailored Intervention Approach

Readiness to change		Counseling Approach	
Precontemplation	<ul style="list-style-type: none"> • Level 1 not ready Ruler = 1–3 	Goal:	Raise doubt about present dietary behavior.
		Major task:	Inform and facilitate contemplation of change.
		Approach:	<ul style="list-style-type: none"> • Raise awareness of the health problem/diet options. • Personalize benefits. • Ask open-ended questions to explore importance of change and to promote change talk. Elicit self-motivational statements regarding importance. Elicit identification of motivating factors. • Summarize. • Offer professional advice, if appropriate. • Express support.
Contemplation	<ul style="list-style-type: none"> • Level 2 unsure Ruler = 4–7 	Goal:	Build confidence and increase motivation to change diet.
		Major task:	Explore and resolve ambivalence.
		Approach:	<ul style="list-style-type: none"> • Raise awareness of the benefits of changing and diet options. • Ask open-ended questions to explore confidence and promote change talk. Elicit self-motivational statements regarding confidence. Elicit identification of barriers. • Explore ambivalence by examining the pros and cons. Client identifies pros and cons of not changing. Client identifies pros and cons of changing. • Imagine the future. • Explore past successes. • Encourage support networks. • Summarize ambivalence. • Ask about next step.
Preparation	<ul style="list-style-type: none"> • Level 3 ready Ruler = 8–10 	Goal:	Negotiate a specific plan of action.
		Major task:	Facilitate decision-making.
		Approach:	<ul style="list-style-type: none"> • Praise positive behaviors. • Explore change options. Elicit client's ideas for change. Look to the past. Review options that have worked for others. • Client selects an appropriate goal. • Develop action plan.
Action			

4.8 Level 1: Not Ready to Change (Precontemplative)

Level 1 clients have clearly indicated that they are not ready to change their behavior or are not doing well at attempting to change. Individuals have a right to decide their destiny, and a decision not to change should be respected. However, health care providers have an obligation to make clear the probable consequences of clients exercising their prerogative. The major goal of working with clients who fit into this

category is to raise doubt about present dietary behavior; the major tasks are to raise awareness of the health and diet problems related to their dietary pattern. Often precontemplators have come to counseling because of the urgings of others, or they are “sitting ducks” in a hospital room as a dietitian walks in to give a consultation because of a diet order. They do not need solutions; they need to know they have a problem. The following discussion provides some strategies recommended for clients at this level of readiness to change.^{2,4,5}

Raise Awareness of the Health Problem and Diet Options

Sometimes clients are not aware of the benefits of behavior change or the risks and consequences of their present dietary behavior. Others have misconceptions about the type of dietary changes that are needed. During an awareness discussion, emphasize anything positive that your client is doing that could be built on if a decision to change is made.

Counselor Asks Permission: *I know you indicated that you are not interested in making changes in your food habits. You came to see me because you have high blood pressure and you feel your wife forced you to come. You expect to be told to not eat salt and you enjoy salty foods. Possibly you would like to hear about other foods that can help lower blood pressure. Would it be alright if we talked about them?*

Counselor: *There is a lot of information in the news about dietary fat and cholesterol levels, but you may not be aware of all the other dietary factors associated with elevated cholesterol levels. Would it be OK if I go over some of them? I see that you enjoy eating salad and that you have soup with beans for lunch sometimes. Both of those choices could be built on to help lower your cholesterol level.*

Personalize Benefits

Clients often know that improving their diet would probably be better for them. However, they may not have given thought to how they would benefit personally or how they may feel better.

Counselor: *Increasing fruit and vegetable intake could be particularly beneficial to you to help lower your blood pressure and aid in your efforts to lose*

weight. Focusing on these foods is likely to have a positive impact on your occasional constipation problem, too.

Ask Key Open-Ended Questions to Explore Importance of Change and Promote Change Talk

Thinking and talking about changing behavior can help elicit self-motivational statements and aid in the development of motivation to change.⁶ Change talk can be elicited by using key open-ended questions. The most effective open-ended questions for people who are precontemplative deal with the need to change. Counselors should listen carefully to the answers and concentrate on the exact meaning of what is being said. Follow up your client's answers with paraphrasing, reflective listening statements, or other open-ended questions. If you observe resistance in your follow-up, back up and use a different approach. However, because the client has already indicated that there is little desire to change, it is generally best to begin this discussion with a tentative approach by requesting permission to discuss the issue. See Table 4.3 for examples of questions appropriate for people at Level 1.

Summarize

Summaries help reinforce what has been said, tying together various aspects of a discussion and encouraging clients to rethink their position. Give a summary of reasons not to change before giving a summary of reasons to change. Be sure to end your summary with any self-motivational statements your client may have made. Finally, ask your client whether the summary was fair and whether he or she would like to make any additions.

Counselor: *Now that the session is coming to a close, I would like to review what we covered so we*

Table 4.3 Key Open-Ended Questions to Explore Importance of Change

Category	Examples
Ask Permission	<i>Would you be willing to continue our discussion and talk about the possibility of a change in your food habits?</i>
Explore Importance	<i>What do you believe will happen if you do not change the way you eat?</i> <i>What is the worst thing that could happen if you continue to eat the way you have been eating? When we used the assessment questions to evaluate how important it was to you to change your food habits, you indicated that it was somewhat important. Why did you pick the number 4 instead of 1?</i>
Explore Motivating Factors	<i>What would have to be different for you to believe that it is important to change your diet? You indicated that changing your diet was somewhat important by choosing the number 4 on the ruler. What would cause you to view things differently and move up to the number 8?</i>

can agree on where we are and where we are going. You said you came today because of pressure from your doctor and your wife. Your cholesterol readings have been high. The last one was 320. You know that people are concerned about you, but you feel fine and wish people would get off your back. When we went over the types of foods that have been found to help lower cholesterol, you were surprised that there was more you could focus on than just fat and fried foods. In fact, there were some foods that you enjoy eating that were on the review list. You thought if you did change the way you eat, that some of the people close to you wouldn't be so worried about you. Lastly, you said that beans would appeal to you when cooked in several ways. Was that a fair summary? Did I leave anything out? Where does this leave us now?

Offer Professional Advice, if Appropriate

Well-timed and compassionate advice can aid in motivating behavior change. In the ideal situation, a client asks for advice, but if that is not the case, then the counselor can ask permission to give advice. Review the guidelines in Chapter 3 for offering advice. Be sure to ask permission to give advice, emphasize that your client knows best what will work, and it is your client's choice as to what to do. This would be a good time to offer educational materials.

Counselor: *It is really up to you, and you know best what would work for you. Sometimes after having some time to think about their situation, clients want to explore their options. After talking to you, I have some ideas you could do that might make a difference in your cholesterol level. Would you like to hear them? For example, you enjoy eating nuts, soup, and oatmeal. A good place to begin could be to start having soup for lunch or dinner or oatmeal for breakfast. I have some information that you could take home to read about foods to emphasize in your meals to lower cholesterol levels. How are you feeling at this point about making a change?*

Express Support

Relationship-building skills may be ignored, and a counselor could be tempted to argue with a client, especially in the case of a serious medical condition. However, this tactic is not likely to encourage a client to move toward the action stage and may result in a stronger resistance to change. Letting the client know that you are there to offer guidance and support is likely to have a greater impact. For clients at this level of motivation, the objective is to create a doubt about their present behavior pattern, so preparing an action plan is not useful. Letting your

clients know what others have done in their situation can have an impact. The fact that you and the client are not working toward making a behavior change at this time should be acknowledged, and the door should be left open for future contact.

Counselor: *I respect your decision not to change your diet. It is really up to you. I don't want to push you. I do want to be sure you know what could happen as a result of not changing. You probably need some time to think about this. Maybe you will feel differently about this in the future. I want you to know that I will always be here to work with you to find solutions. I have met others with your problem. Most individuals do decide to work on changing their diet. However, some do not. You are the best judge of what would work for you. Would you like me to contact you next week to discuss how you are feeling about the diet prescription? If you have any questions or need clarification about anything, do not hesitate to call me.*

4.9 Level 2: Unsure, Low Confidence

During the motivation assessment, clients in this category indicated that a diet change is possible. They know the problem exists, but something is needed to push the decisional balance in favor of making a change. The objective of working with people at this level is to build confidence in their ability to make a diet change, and the major task is to explore and resolve ambivalence. The following is a review of some of the approaches advocated for people who have low confidence in their ability to change.^{2,4,5}

Raise Awareness of the Benefits of Changing and Diet Options

Clients at this level know they need a solution but may not have all the facts regarding the benefits of changing. They may not really know what dietary changes would have to be made. Simple facts may be all that is needed to progress to a higher level of readiness to change.

Ask Key Open-Ended Questions to Explore Confidence and Promote Change Talk

The formats of these questions are similar to those posed for Level 1 clients; however, the objective switches from exploring importance to focusing on confidence and barriers. See examples in Table 4.4. For people at this motivational level, little thought may have been given to exactly what is keeping them from making dietary changes. By discussing their barriers, possible ways of dealing with them may be identified, and confidence

Table 4.4 Key Open-Ended Questions to Explore Importance of Change

Category	Examples
Explore Confidence	<i>You have indicated that you are somewhat confident that you would be able to change your diet. When we did the ruler evaluation, you picked the number 6. What makes it a 6 rather than a 1?</i>
Explore Barriers	<i>You picked the number 4 on the picture of the ruler when we were evaluating how confident you were in your ability to change your diet. What is keeping you from moving up to the number 8? How could I help you get there?</i> <i>What are your barriers to making the recommended dietary changes?</i> <i>What would need to be different for you to feel you are able to make diet changes?</i>

in the ability to change may increase. Again, answers to these questions should be followed up with paraphrasing, reflective listening statements, or more open-ended questions.⁶ The objective is to elicit self-motivational statements regarding confidence in ability to change dietary habits. Table 4.4 illustrates key open-ended questions that promote change talk to make a good behavior change.

Explore Ambivalence by Examining the Pros and Cons

The objective of this exercise is for the client, not the counselor, to identify the pros and cons related to a possible change. Rollnick et al.⁶ suggest using the words *like* and *dislike* or *pros* and *cons* rather than *advantages* and *disadvantages* or *costs* and *benefits*. The latter words may be confusing for some individuals. You could use a balance sheet as illustrated in Table 4.5 as a visual aid and even fill in the categories. However, remember the objective of the activity is for the client to fully explain his or her thoughts and feelings. Do not let the focus of the interaction be completion of the form and thereby interfere with the flow of conversation.

- Inquire if your client would like to examine the pros and cons.

Counselor: *Many people find it useful to explore their likes and dislikes about this issue. Would you like to do that?*

- Guide your client to examine the pros and cons of the present diet. A comfortable beginning for this

Table 4.5 Balance Sheet for Someone Contemplating a Diet Change for High Blood Pressure

No Change	Change
Likes (Pros) I get to eat all foods I really like. I am comfortable with my food pattern.	Likes (Pros) I think I will feel better. Maybe I will lose weight. Maybe I could reduce the amount of medicine I take for my blood pressure.
Dislike (Cons) I am not a good role model for my children. I dislike taking medicine for my blood pressure.	Dislike (Cons) I don't think I will like the foods as much. I have to get used to eating new foods. I think the new diet will be more expensive. I will have to think about what I will eat all the time.

Source: Adapted from Rollnick S, Mason P, Butler C, *Health Behavior Change: A Guide for Practitioners*, New York: Churchill Livingstone; 1999, p. 82.

strategy is generally to start with what the client likes about his or her present diet. Any follow-up questions should be asked for clarification and not divert focus away from the primary subject. Listen carefully and remember key words used by your client. Before progressing to the next set of questions, summarize both sides of the position, interjecting words used by your client.

Counselor: *What do you like about your present eating habits?*

What do you dislike about the way you are eating?

- Guide your client to identify pros and cons of new or additional change. Likes and dislikes of the present diet often mirror those of making a change to a new diet pattern. For example, a client may like the fact that all foods he or she enjoys can be eaten if no change is made, and one of the cons of changing is limiting some of the enjoyable foods. As a result, the conversation may have naturally flowed to the pros and cons of making a change. If not, questions can be asked to arrive at the topic and then provide a summary of the responses.

Counselor: *What do you think you would like about this new way of eating?*

What do you think you would not like about making these changes?

Imagine the Future

Use imagery to create a picture of a successful future assisting clients in identifying goals and hoped-for benefits. A variation of this question and one of the mainstays of solution-focused therapy is asking a client to suppose a miracle happened.⁷ The final question, asking whether any part of the picture is presently happening, gives clues as to resources and skills already available that can be expanded on to produce hoped-for outcomes.

Counselor: *Let us create a picture of the future. Imagine that you made all the changes necessary to lower your cholesterol level. What is the first thing you notice that is different? What else is different? How do you feel? What does your brother, wife, or husband see you doing? Who notices that this happened? Are any small parts of this picture happening now? How would you like your diet to be in the future?*

Explore Past Successes and Provide Feedback About Positive Behaviors and Abilities

By exploring successes and identifying abilities, the counselor and client can lay a foundation of existing skills that can be built on to make needed changes. One strategy for identifying successes would be to ask whether the client was ever able to accomplish the desired task or another goal. After a success is identified, ask the client to elaborate by asking for details. Ask what the client did to make the success happen. Probe for identifying obstacles and how they were overcome. Clients should be complimented on any past or present coping abilities that have been identified. This will encourage clients to continue to make similar choices in the future.

Counselor: *What strategies have you used in the past to overcome barriers?*

Have you ever been able to go to a party and eat only one dessert when there were many available to choose among?

You are already drinking soy milk and that is a great substitution for milk to reduce your casein intake.

What permanent changes have you made in the past? Tell me what helped you do this so successfully.

Encourage Support Networks

Confidence in ability to make a behavior change, or *self-efficacy*, increases when we watch and interact with others who have made the same or similar changes. Support groups can provide excellent resources for modeling. Clients should also be encouraged to share their intentions

to change with others. It often brings support and assistance from associates, friends, and family.

Summarize Ambivalence

The importance of periodic summaries has already been discussed. An effective time for providing a summary is after using a variety of motivational strategies. Summarize your client's ambivalence, and ask your client how she or he would like to continue.

Counselor: *What are your options? How would you like to continue?*

Choose a Goal, if Appropriate

If your client would like to set a goal, follow the guidelines for goal setting for Level 3 clients, and review the goal-setting process described in Chapter 5. The objective will be to specify a goal to meet the client's motivational level. This may mean buying low-fat milk instead of whole milk or taking some active steps to increase awareness, such as reading informational literature.

4.10 Level 3: Motivated, Confident, Ready

Level 3 clients have indicated readiness to make a lifestyle change. For these clients, the nutrition counselor serves as a resource person increasing awareness of possible alternatives for solving problems. The counselor and client collaborate to select lifestyle changes to alter, clarify goals, and tailor intervention strategies to achieve goals. If possible, past successes should be used to find viable solutions. These strategies are outlined in Chapters 5 and 6.

Affirm Positive Behaviors

To reinforce desirable behavior patterns, counselors should point them out and offer an affirmation. Also explore what skills your client is using to accomplish the desired outcome.

Counselor: *You are working hard on your diet. You switched from a high sugar cereal to a low sugar, high fiber one. What steps did you take to make that happen?*

Closing Phase

In this phase, review with your client what has occurred during the session, including a summary of the issues, identification of strengths, and a clear restatement of goals. In addition, an expression of optimism about the future and a statement of appreciation for any obstacles overcome should be made to support self-efficacy. Plan

for the next counseling encounter, which could be a phone call, email, text message, or counseling session. This is also a good time to use a partnership statement.

Counselor: *It was a pleasure to meet with you today. You came here because you wanted to know more about what you could do with your diet to lower your blood pressure. We reviewed your food pattern and identified several beneficial food habits, such as including a fruit with breakfast, several servings of whole grains each day, and an adequate intake of water each day. We did a good job setting a goal to eat a salad each day at work, having humus and nuts available at home for a snack, and keeping a food journal this week. You said you would explore exercise and relaxation options, such as Tai Chi or meditation this week. I gave you some information about the DASH food plan to review. I look forward to working with you to make additional changes. Would you like me to send you a follow-up email or text message during the midweek?*

Exercise 4.5 Practice Using Counseling Strategies

Practice using the resolving strategies with your colleague, alternating the role of client and counselor. Each of you should choose a behavior change that you have been contemplating (such as following a walking program, increasing fiber intake, or flossing teeth). Select a behavior change that you feel somewhat ambivalent about implementing so that your assessment will fall into Level 2. When you are role-playing a counselor, conduct a readiness assessment and follow the suggested counseling strategies for your colleague's motivational level. Because the counselor is experimenting with a variety of new techniques, the experimenter is allowed to call time-out at any point to gather thoughts.

At the end of the designated period (usually eight to ten minutes), each person should share his or her feelings and reactions to the experience. First cover what went well, then what could have been done differently, and finally how each felt about what transpired.

- ❑ Write your reactions as a client and as a counselor to this activity in your journal. Which strategies did you find useful? What did you learn from this exercise?

Source: This activity was adapted from role-playing directions in the following sources: Rollnick, S., Mason, P., Butler, C., *Health Behavior Change: A Guide for Practitioners*, New York: Churchill Livingstone, 1999; and Dubé, C., Novack, D., Goldstein, M., *Faculty Syllabus & Guide Medical Interviewing*, Providence, RI: Brown University School of Medicine, 1999.

4.11 FRAMES for Brief Interventions

Table 2.5 in Chapter 2 provided guidance for using the four processes of Motivational Interviewing when time is limited. Another approach for brief interventions is to use FRAMES: feedback, responsibility, advice, menu, empathy, and self-efficacy. Research has shown these are common components of effective brief interventions.⁵ After an assessment, feedback to clients is provided in a nonjudgmental manner. Counselors emphasize the clients' right to choose to change and their responsibility for making changes. With permission from the client, the nutrition counselor offers clear advice and a menu of change strategies. Throughout the intervention, the counselor interacts with the client in an empathic style displaying warmth, active interest, respect, concern, and sympathetic understanding. Finally, the counselor offers hope for the future and enhances self-efficacy by expressing optimism for a client's ability to make a change.

4.12 Considerations for Acute Care

Several factors need to be taken into account when counseling a patient in an acute care facility. For example, patients may have no idea that a registered dietitian was scheduled to see them. The diet consultation may be the result of an internal policy and a guideline of an accrediting agency, or the patient's doctor may have requested the meeting. Because of recent changes in health care, patients' counseling needs present some special challenges. The physical condition of patients is likely to be more distressed than in the past and hospital stays are shorter, limiting the number of possible inpatient counseling sessions.

Here are some tips for working with patients in acute care settings:

- Each time you visit a patient, introduce yourself, verify that you have the correct patient, and explain the purpose of your visit. The facility may have a protocol that also includes asking the patient for date of birth. For example, "Are you Mary Edwards?" If the answer is yes, introduce yourself and then proceed with the greeting, "I am glad to meet you, Mrs. Edwards." It is important for the professional to explain the reason for the contact and how the patient will benefit from the consultation.
- If you have an option to meet at another time, asking whether this is a good time for the meeting to take place is usually a good idea. Patients may be in too much pain or too tired to benefit from a consultation.

- Although time may be limited, do not disregard relationship-building skills and rush through the interview. A hurried atmosphere gives the impression that you do not view your discussion with the client as important or that you do not care enough to get all of the facts.¹⁶

CASE STUDY 4.1 Nancy: Intervention at Three Levels of Motivation

Nancy is a 26-year-old, overweight African American woman who was recently diagnosed with hypertension. She is five feet, four inches tall and weighs 174 pounds (BMI 30). While growing up in Columbia, South Carolina, Nancy enjoyed school sports, including softball and volleyball. Weight was never an issue during her childhood; in fact, some of her relatives would tell her she was too skinny. After her marriage, Nancy moved with her mother and husband to northern New Jersey to live closer to her sister. Nancy has a sedentary job as the floor supervisor for an overnight mail delivery service and does not engage in any regular exercise program, indicating that life is hectic and there is no time. After the birth of each child, Nancy found herself 15–20 pounds heavier than pre-pregnancy weight. She lives on the second story of a two-family house with her husband, mother, and three children ages, one, three, and five years. Nancy's physician prescribed a medication to lower her blood pressure and suggested that she consult with the clinic's nutritionist about her weight and diet.

Nancy's family history is a concern. Diabetes runs in the family, and there is a history of pica during Nancy's pregnancies. Her father suffered from several complications due to diabetes including poor eyesight and amputation of the right leg, and he died from a diabetic coma. Both her sister and mother have hypertension, and her mother has been having kidney problems. Nancy's husband does not work. He fell while working on a construction job and is receiving disability.

The following discussion contains three possible scenarios for Nancy, illustrating use of the motivational nutrition counseling algorithm at three different motivational levels. Examples of relationship-building responses are sporadically intertwined in the scenarios.

Level 1—Not Motivated, Not Ready

Nancy came into your office directly from her doctor's appointment after being diagnosed with hypertension. Nancy said her doctor told her to lose weight and go over her diet with the nutrition counselor. Nancy says she doesn't want to lose weight and she looks fine. Her husband likes her "with some meat on her." In fact, she says she doesn't want to bother with her diet, either—she has enough problems. Her husband is on disability with a bad back, her mother has been having kidney problems, and she has three small children who take up a lot of time. You reflect and justify her feelings and ask whether she wants to talk about her diet and high blood pressure because she is here. Nancy says she doesn't really know why she is in your office, she really doesn't want to talk about her diet, and besides, she has the pills to take care of her blood pressure.

You say, "I respect your decision. It is obvious that any talk about diet at this time would not be useful. You may feel differently in the future. Sometimes when clients first get a diagnosis, they need some time to think about it and are ready to tackle food issues down the line. I want you to know that I will be here to assist you if you would like some help." You offer Nancy some literature about diet and blood pressure. She says she is willing to read the literature and will call you if she feels differently.

Level 2—Unsure, Low Confidence

Assessment

Nancy did not fill out assessment forms before her appointment. She says her doctor wants her to lose weight, but she doesn't believe she has a weight problem. Her husband likes her with "some meat on her." Nancy feels that taking care of three children and holding down a night job as a floor supervisor for a mail delivery service is stressful, and she doesn't need more problems in her life. Her husband is home on disability with a bad back, and the family needs the income and the benefits from her job. You say, "I hear what you are saying. You sound annoyed that you have been given another burden. You don't need any new problems. You certainly are entitled to feel this way with all the responsibilities you are shouldering. However, if you want to explore what you could do about your food intake to lower your blood pressure, we could work together to set goals that would fit into your schedule. Do you want to talk about your blood pressure?" Nancy says yes.

CASE STUDY 4.1 **Nancy: Intervention at Three Levels of Motivation (*continued*)*****Dietary Evaluation***

Although the family is on a tight budget, they have ample money for food. She is active in church activities, which often include food. Sunday dinner is served early—2 p.m.—and is a large meal often attended by her sister and her family and other relatives. On work days, Nancy wakes up at 9:30 a.m. Her mother fixes her a large breakfast that often includes biscuits, eggs, sausage, juice, coffee, and grits. There will not be another formal meal until dinner, which is usually around 4 p.m. because Nancy has to be at work at 6 p.m. Before dinner, she is likely to snack on chips, sweetened soda, or cookies. Dinner usually includes a vegetable, potatoes, and a meat that is often fried, possibly pork chops or chicken. Nancy's mother packs her a meal for work. This usually includes a sandwich made with cold cuts, white bread, mustard; a pickle, chips; cookies; and a candy bar. At work there is a snack room where coffee, tea and donuts, or other baked goods are always available.

You use a typical day strategy combined with a 24-hour recall and complete a short food frequency checklist. Nancy's typical calorie intake is approximately 3,200 calories, 142 grams total fat, 70 grams of saturated fat, and 3,600 mg of sodium per day.

Feedback

You show Nancy a list of lifestyle and food behaviors that can help lower blood pressure, compare Nancy's assessment to the list, and ask Nancy what she thinks. Nancy doesn't think it looks too good, but she is surprised that there is more that she can do than just losing weight. You explain the importance of weight loss and why her doctor emphasized the weight issue but point out that other important diet changes can be made. "By focusing on some of them, weight loss may even occur," you add. You also point out some positive aspects of her diet, such as the collard greens for dinner and the use of skim milk in her coffee.

Readiness

When you ask Nancy her readiness to consider any of the options, she says she is about a 6 on a scale of 1 to 10.

Exploring Ambivalence

You compliment Nancy on keeping the appointment despite her ambivalence and say, "There must be a part of you that believes you should make some diet changes." You ask Nancy why she might want to make some changes. Nancy's mother also has high blood pressure, and as a result, she knows some of the problems that occur with the disease, so she is concerned. However, Nancy feels fine and has the pills to control her blood pressure. You summarize her ambivalence about making changes and ask where that leaves her. Nancy says she would like to do something.

Goals and Action Plan

You point to the list of lifestyle and food behaviors for having a positive impact on blood pressure and Nancy's diet summary and ask what appeals to her. Nancy says she would like to eat more fruit. You and Nancy go through the goal-setting process building on past experiences. Nancy's goal is to eat a banana or an orange for a snack at work. She will buy the fruit on her way home and put a sticky note on the dashboard of her car to remind her to take the fruit to work. You tell Nancy that you would like to do what you can to support her in this endeavor and ask whether it would be all right to call or text her. Nancy says yes.

Follow-Up

When you contact Nancy, she says that she took fruit to work every day for the past week. One of her co-workers has also started bringing fruit, so Nancy feels good that she has a positive influence on someone else. You congratulate Nancy for following through on her goal and tell her that you are there to support her if she wants assistance in making more changes. You express confidence in her ability to continue making dietary changes.

Level 3—Motivated, Confident, Ready***Assessment***

Between her appointment with her physician and you, Nancy completed a client assessment questionnaire and a food frequency checklist. Nancy says her doctor suggested that she see the clinic nutritionist to talk about her food intake and losing weight. You used "a typical day" strategy. Improving her food selections appeals to her, but the idea of losing weight surprised her. She never thought of herself as overweight, and her husband likes her "with some meat on her." You explain

(continued)

CASE STUDY 4.1 Nancy: Intervention at Three Levels of Motivation (continued)

why the doctor suggested weight loss and say, “I will give you some literature to read about blood pressure and weight to help you make a decision. It is one of the best things you could do to help your blood pressure. However, there are still a lot of things we can work on to help lower your blood pressure that may also result in some weight loss.” You share with her the results of an analysis of the assessment forms.

Feedback

After reviewing Nancy’s assessments and comparing them to a list of lifestyle and food behaviors that can help lower blood pressure, Nancy says she would like to increase her intake of fruits and vegetables. She really likes fruit but has never been in the habit of eating fruit. Eating vegetables will take some effort.

Readiness

When you ask her about her readiness to increase her fruits and vegetables, Nancy says she very much wants to make a change. On a scale of 1 to 10, she rates her confidence to succeed a 9 for fruits and a 7 for vegetables.

Exploring Ambivalence

Nancy’s mother has started to experience some kidney problems from high blood pressure. If Nancy works on her diet, she thinks the whole family will benefit, especially her mother. Also, she wants to do what is best for the children. Nancy needs to be healthy. Right now her husband is home on disability with a bad back, and the family needs her to work for the income and the benefits. Nancy says she is not sure about trying to lose weight, and she does have the pills.

Goals and Action Plan

You ask Nancy whether she has ideas about how to increase fruits and vegetables. She says her mother does all the cooking in the house and believes she would be willing to make soup with more vegetables and serve at least one vegetable with dinner. Nancy has noticed the cut-up veggie packs at the grocery and thinks they would be convenient to take to work. Nancy asks the counselor for ideas. You offer her reading material, recipes, and tips for increasing fruits and vegetables. You and Nancy go through the goal-setting process, building on past experiences. Nancy’s goal is to have homemade soup with vegetables and a four-ounce glass of grape juice on waking. For dinner she will have at least one serving of vegetables and will take a banana or orange and a veggie pack with her to work each day. You talk about self-monitoring and give her a food record designed to track fruit and vegetable intake. You also ask whether you can call her in a week. Nancy says she would like that.

Follow-Up

When you call Nancy, she says that she took fruit and veggie packs to work every day for the past week. Her mother has been making soups and more vegetables for dinner. The counselor reviews her goal of eating three vegetables and two fruits each day. Nancy says she is concerned that her mother is using too much salt when cooking and asks whether her mother can come with her for their next appointment. You tell her that sounds like a good idea. Nancy has noticed that everyone in the house is eating more fruits and vegetables and thinks that is good. You congratulate her on her success, adding that you believe she has the ability to continue making diet changes.

KEY TERMS

Algorithm: a step-by-step procedure for accomplishing a particular end.

FRAMES: an acronym for the steps of a brief counseling intervention.

Models: generalized descriptions used to analyze or explain something.

Motivation: a state of readiness to change.

Motivational Nutrition Counseling Algorithm: a step-by-step guide to direct the flow of a nutrition counseling session.

REVIEW QUESTIONS

1. Explain why the arrows for assessment, intervention, and evaluation of a client are reciprocal in the model for a nutrition counseling program in Figure 4.1.
2. Identify the two components of readiness to make a behavior change.
3. Describe four methods to assess readiness to change.
4. Describe each of the four phases of the nutrition counseling algorithm in Figure 4.2.
5. Explain the “a typical day” strategy.

6. Why should a client be allowed to do the initial evaluation after receiving feedback on an assessment?
7. Identify goals and tasks for the resolving phase for each of the three motivational levels in the motivational nutrition counseling algorithm.
8. Explain the components of the FRAMES method for brief interventions.

ASSIGNMENT Case Study Analysis

Refer to the case study in this chapter to answer the following:

1. Write three family or societal strengths that should be taken into consideration during a counseling intervention with Nancy.
2. The nutrition counseling motivational algorithm in Figure 4.2 integrates several intervention models for behavior change. Review discussions of the Transtheoretical Model, Motivational Interviewing, Self-efficacy, and Solution-Focused therapy discussed in Chapter 2. Give at least one example of how the methodology for each was illustrated in the case study scenarios about Nancy.
3. Review the resolving phase intervention strategies for motivational levels one and two discussed in this chapter. Select a strategy not illustrated in the case studies that you believe may have been useful in working with Nancy. Explain why you believe the method would be useful. Write a statement a counselor would make when using the strategy.
4. Review the five relationship-building responses in Chapter 3, and underline examples of each in the three case studies about Nancy. Identify the type of response that was illustrated (that is, reflection, legitimization, support, partnership, or respect), and evaluate the effectiveness of each for the particular situation that was described.

ADDITIONAL RESOURCES

Nutrition Counseling for Medical Nutrition. Snetselaar, L. G. *Nutrition Counseling Skills for the Nutrition Care Process*. 4th ed. Sudbury, MA: Jones and Bartlett Publishers, 2009. Provides an abundance of counseling strategies to address requirements for specific dietary modifications.

LIFESTEPS weight Management Program. <http://www.lifestepsweight.com/>. This program is designed to train

registered dietitians and other health professionals to lead weight management programs; it is a five-week program offered online three times a year.

American Diabetes Association. <http://www.diabetes.org/> Click the Research and Practice link to gain access to an abundance of professional resources to use with clients.

REFERENCES

- ¹L. G. Snetselaar, *Nutrition Counseling Skills for the Nutrition Care Process*, 4th ed., Gaithersburg, MD: Aspen, 2009.
- ²S. M. Berg-Smith, V. J. Stevens, K. M. Brown, et al., A brief motivational intervention to improve dietary adherence in adolescents. *Health Educ Res.*, 1999; 14:399–410.
- ³J. Prochaska and C. DiClemente, Transtheoretical therapy: Toward a more integrative model of change. *Psychother Theory Res Practice*, 1982; 61:276–288.
- ⁴J. O. Prochaska, C. A. Redding, and K. E. Evers, The transtheoretical model and stages of change. In K. Glanz, B. K. Rimer, and K. Viswanath, eds., *Health Behavior Theory, Research, and Practice*. 5th ed. San Francisco: Jossey-Bass, 2015:125–148.
- ⁵W. R. Miller and S. Rollnick, *Motivational Interviewing: Helping People Change*, 3rd ed., New York: The Guilford Press, 2013.
- ⁶S. Rollnick, W. R. Miller, and C. Butler, *Motivational Interviewing in Health Care Helping Patients Change Behavior*. New York: The Guilford Press, 2008.
- ⁷S. de Shazer and Y. Dolan, *More Than Miracles: The State of the Art of Solution-Focused Brief Therapy (Haworth Brief Therapy)*. Abingdon-on-Thames, England: Routledge, 2007.
- ⁸A. Bandura, Towards a unifying theory of behavior change. *Psychol Rev.*, 1977; 84:191–215.
- ⁹N. L. King, *Counseling for Health & Fitness*. Eureka, CA: Nutrition Dimension, 1999.
- ¹⁰American Dietetic Association, Position of the Academy of Nutrition and Dietetics: Interventions for the Treatment of Overweight and Obesity in Adults. *J Am Diet Assoc.*, 2016; 116:129–147.
- ¹¹C. R. Pacanowski, J. A. Linde, and D. Neumark-Sztainer. Rep self-weighing: Helpful or harmful for psychological well-being? A review of the literature. *Curr Obes*, 2015; 4:65–72.
- ¹²M. Mantzios and J. C. Wilson, Mindfulness, eating behaviours, and obesity: A review and reflection on current findings. *Curr Obes Rep.*, 2015; 4: 141–146.
- ¹³S. L. Pohl, Facilitating lifestyle change in people with diabetes mellitus: Perspective from a private practice. *Diabetes Spectrum*, 1999; 12:28–33.
- ¹⁴K. Chapman-Novakofski, Education and counseling: Behavior change. In L. K. Mahan and J. L. Raymond, eds., *Krause's Food & the Nutrition Care Process*, 14th ed. Philadelphia, PA: W.B. Saunders Company, 2017:227–237.
- ¹⁵S. Rollnick, P. Mason, and C. Butler, *Health Behavior Change: A Guide for Practitioners*. New York, NY: Churchill Livingstone, 1999.
- ¹⁶E. Britt, S. M. Hudson, and N. M. Blampied, Motivational interviewing in health settings: A review. *Pt Educ Counsel.*, 2004; 53:147–155.

5

Developing a Nutrition Care Plan: Putting It All Together



Business Idea/Shutterstock.com

Learning Objectives

- 5.1** Develop goals that are specific, achievable, and measurable.
- 5.2** Differentiate among anticipated results, broad goals, and specific goals.
- 5.3** Design a plan of action for a goal.
- 5.4** Evaluate dietary status utilizing standard assessment tools.
- 5.5** Use common dietary assessment tools.
- 5.6** Assess total energy expenditure.
- 5.7** Use standard physical assessment methods to assess healthy weight.
- 5.8** Define *overweight* and *obesity*.
- 5.9** Describe functions of charting.
- 5.10** Describe the four domains of the Nutrition Care Process.
- 5.11** Use SOAP and Nutrition Care Process documentation formats.

A life that hasn't a definite plan is likely to become driftwood.

—DAVID SARNOFF

In this chapter, we will review practical factors related to developing a care plan for a nutrition counseling or education intervention. Because interventions can take place in a variety of locations, including clinical, commercial, community, and private practice settings, only the basics of developing a plan can be addressed. In addition, an employing facility may have specific guidelines that must be followed. This chapter will address universal best practice procedures, basic tools, and professional essentials for a care plan. We will start by reviewing and practicing the essentials of the goal-setting process. Then we will explore various methods for completing a dietary assessment, including utilizing energy standards and commonly used physical assessment tools. The foundation of documentation and charting will be reviewed and demonstrated. Although the Academy of Nutrition and Dietetics Nutrition Care Process has been integrated into this book at strategic places, a more thorough review of the process concludes the chapter.

5.1 Goal Setting

An archer cannot hit the bull's-eye if he doesn't know where the target is.

—ANONYMOUS

To make successful behavior changes, individuals need to know what the target is and to clearly “see” it. The story of Florence Chadwick attempting to swim twenty-six miles from Catalina Island to Palos Verdes, California, for the first time illustrates how important having a clearly visible goal helps attainment of an objective. After fifteen hours of swimming in shark-infested, rough waters, a fog descended and she quit, just one-half mile from shore. Florence climbed into an escort boat, and after finding out how close she was to her goal, stated, “If I could have seen land, I know I could have made it.”¹

Goal setting is a logical strategy for clients ready to make a behavior change—that is, those at Level 3 and possibly Level 2 in the motivational nutrition counseling algorithm (refer back to Figure 4.2 in Chapter 4). This process enables complex behavior changes to be divided into small, achievable steps. Successful small changes improve self-efficacy and motivate clients to continue making lifestyle alterations. Goal setting is a key strategy in the **Nutrition Care Process**, Social Cognitive Theory, Motivational Interviewing, and Cognitive Behavioral Theory. Goal setting has been a component of a number of effective nutrition interventions; however, clients often need guidance for setting realistic goals.²⁻⁴

Counselors should be wary of entering into goal setting too quickly. To formulate achievable goals, the

groundwork must be done. That means a counselor and client must have fully investigated the nutrition issues of concern. While exploring viable focus areas for making a food behavior change, Berg-Smith et al.⁵ emphasize the need for a counselor to convey the following messages to a client:

1. A number of courses of action are available to you.
2. You are the best judge of what will work.
3. We will work together to review the options and select a course of action.

The sections that follow describe general guidelines for establishing goals.

Explain Goal Setting Basics

Before beginning the process of setting a specific goal, you may wish to explain the basics of the goal-setting process to your client to ensure a clear understanding of the objectives. You can use the mnemonic **SMART** (Specific, Measurable, Achievable, Rewarding and Time-based) to remember the components of the process. See Table 5.1. Another and simpler approach is, “What, How, and When?”

Explore Change Options

A major objective of this whole process is for you to work in partnership with your client to develop an action plan. Your job is not to be the one setting the goals but to be sure the stated goal(s) meet the goal setting criteria. Clients must feel a sense of ownership over the plan for goal setting to be an instrument of change.

Table 5.1 Goal Setting Basics

Letter	Term	Description
S	Specific	Specific goals address the what, why, and how.
M	Measurable	Measurable goals are concrete and observable.
A	Attainable	Attainable goals usually mean small changes that are under the control of the client. They do not depend on another person.
R	Rewarding	Rewarding goals are stated positively.
T	Time-based	Putting an end point on a goal gives a clear target.

Elicit Client's Ideas for Change Your client may clearly state ideas about what behavior change he or she would like to tackle during the assessment interview. The counselor should discuss these statements with the client to determine acceptable options.

Counselor: *When we went over the assessment data, several areas were identified that could be a focus area for making a food change. You know best what would work for you. Is there one particular area that appeals to you? There are probably a number of options, but what do you think will work for you?*

Consider Using an Options Tool For those who appear to have difficulty selecting a specific area of focus, an options tool could be useful (see Figure 5.1). This tool consists of a group of several circles.

While reviewing the assessment with your client, you may have identified several areas that could be addressed for behavior change. Write each topic area in one of the circles. Be sure to leave some circles blank for your client. Ask your client what else could be addressed and add any suggestions to the circles.

Counselor: *This options tool may help in the decision process. As you can see, there are a number of circles on the paper. I'd like us to work together to brainstorm ideas of what you could focus on, and we will write them in the circles. As the weeks go by, we can use this tool to help us decide a new area for focusing a goal. What appeals to you the most?*

Explore Concerns Regarding a Selected Option Probe to investigate any concerns you have about an option selected by your client. Further discussion may convince

you to better understand a particular choice, or the process of clarifying could alter or modify a client's choice.

Counselor: *Help me to understand why you feel this is the best choice. This seems to be the best choice, but will this work for you?*

Identify a Specific Goal From a Broadly Stated Goal

Once a broadly stated goal, such as increasing fruit intake, has been selected, the task will be to narrow the focus area down to a specific goal. This specific goal will be one of the small steps that address an intended behavior change and lead to the anticipated outcome (for example, reduction of high blood pressure). Table 5.2 lists the interrelationship of these concepts. Some highly motivated individuals will be capable of implementing substantial behavior changes; however, for many people, a gradual change in behavior is more likely to result in the desired outcome. Small successes lead to enhanced self-efficacy and more ambitious goal attainment in the future.

Use Small Talk Research shows that many clients are drawn to unrealistic and overly aggressive health behavior goals.^{3,4} For many clients, focusing on identification of the smallest goal that is achievable and worthwhile rather than asking how much a person can accomplish can help identify practical goals. If a goal is too ambitious, it will not be attainable and may leave a client feeling not capable of making changes.

Counselor: *What is the smallest specific goal you believe is worth pursuing?*

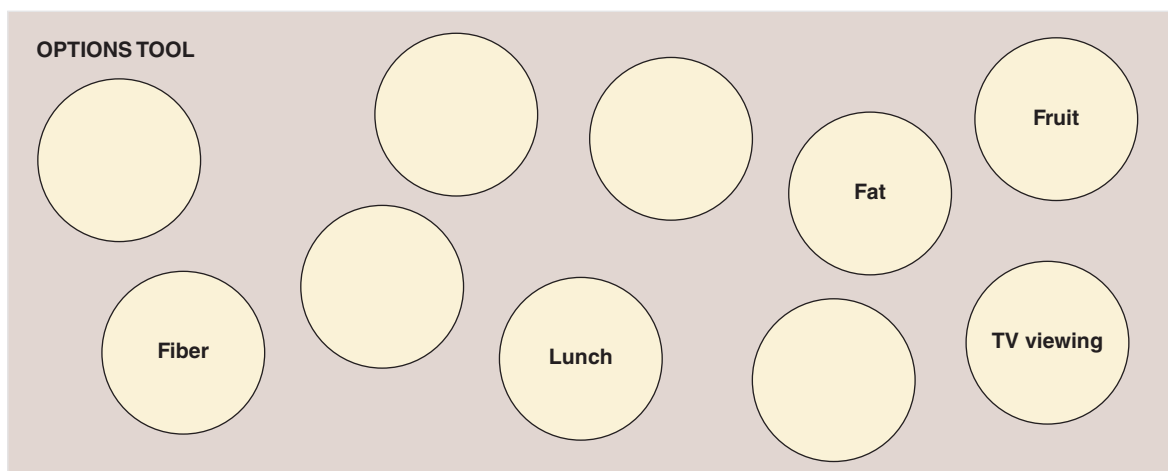


Figure 5.1 Options Tool

Source: Based on Berg-Smith, S. M., Stevens, V. J., Brown, K. M., et al, A brief motivational intervention to improve dietary adherence in adolescents. *Health Education Research* © 1999; 14:399–410.

Table 5.2 Anticipated Results, Broad Goals, and Specific Goals

Anticipated Results	Broad Goals—Not Specific Enough to Be Achievable	Specific Goals—Measurable, Achievable, Positive, Time-based
Decrease blood pressure	Increase vegetables	Eat two servings of vegetables for lunch and again at dinner
Decrease cholesterol	Increase fiber	Eat oatmeal for breakfast five times this week
Decrease cancer risk	Increase fruit	Take an apple or orange to work each day to eat during a break
Maintain or increase bone density	Increase calcium intake	Prepare one kale recipe for dinner this week

Explore Past Experiences If a client has not clearly stated a desired goal, then explore past experiences with the broadly stated goal. Successes of the past, no matter how small, are useful starting places for defining an achievable goal. For example, if the general goal was to increase fruit consumption, possible questions include the following:

Counselor: *When have you eaten fruit in the past? When did you last eat fruit you enjoyed?*

Build on Past Successes If a success was identified, try to build on that success. The objective is to identify strengths and skills the client already possesses that can be embellished to implement the new goal.

Counselor: *You said you remembered enjoying a clementine (orange) that was in a bowl at your mother's house. That's great because clementines are in season now and can be purchased in a handy box at the grocery store. Do you believe that placing a bag or bowl of these clementines in a convenient place would help you meet your goal?*

Define Goals

Sound goals are specific, measurable, achievable (under the client's control), rewarding (positive), and are time-based. The goal should identify when, where, how often, and under what conditions the new behavior will occur.

Determine Achievable Goals To be achievable, goals need to be realistic, reasonable, and desirable. If goals are perceived as important, clients have greater determination to achieve them. Obstacles will be viewed as challenges to overcome. Do not overwhelm your client by setting numerous goals at one time. Set one to three goals, depending on the needs and skills of the client. Clients are the best judges of what changes are workable. If a client appears averse to taking a risk of setting a goal for a needed behavior change, consider approaching the change as an experiment or trial run to evaluate what

happens so as to better see what needs to be done in the future to make the change work. This approach may also be used if you are concerned that the client's goal is too ambitious.

Counselor: *Would you like to experiment with this goal for the next week?*

Define Measurable Goals When a client makes a specific goal, it should be clear when the goal is attained. Goal statements with vague terms such as *good, try, better, more, or less* cannot be measured, and clients will have trouble knowing when the goal has been reached. Also, as the need to produce outcome data for funding agencies increases, you will have a hard time reporting your results if you do not have well-defined outcomes. This requires measurable goals.

Set Goals Over Which the Client Has Control Attainment of a goal should depend on the actions of the client, not another person. For example, "I want my husband to . . ." is not a good goal, because it focuses on someone other than the client. If a client can only accomplish the goal through the help of another person, then the goal should be abandoned and a new one sought. However, this does not mean that clients should not seek out the support of others. For instance, if the plan was for your client to walk after dinner three days next week, it would be appropriate to ask a friend or family member to participate. Your client, though, should be making plans that will occur despite another person's involvement. Weight loss is not a behavioral goal and should never be a short-term goal, although it could be a long-term anticipated outcome. A number of physiological factors affect numbers on a weight scale over which clients have no control.

State Positive Goals What do you think and feel when you imagine a list of foods to avoid on a standard diet? Chances are you created a depressing image of deprivation and despair. A goal that takes away a pleasurable pastime and leaves an empty void is doomed to failure.

Positive images create a greater likelihood of success. For example, a common problem is eating high-calorie, low-nutrient dense foods while watching television. A goal of “I won’t eat ice cream while watching television” is likely to leave a client feeling distressed. Better to state what will be done—for example, “Four days a week I will eat one cup of plain, low-fat yogurt with one teaspoon of fruit preserves while watching television. Three days a week I will eat one cup of low-fat ice cream.” A non-eating activity, such as grooming the dog, can also be substituted if it appears workable.

Anecdote

My first dietetic position in a hospital had a file of diet plans for common diet orders, such as a 2 gram sodium diet. The first page of each plan had a list of foods to avoid. I now know that those first pages were not a good way to start an intervention. That first page likely had a number of favorite foods that the patient was told to avoid.

from occurring? Do you think you need any reminders, like a note in your car or bathroom?

Examine Social Support

Explore whether there is anyone in your client’s environment who can help or hinder achievement of the goal.

Counselor: *Talking about your goal with your coworker who you usually eat a snack with at the office sounds like a good idea, especially since you said she wants to eat better, too. Maybe the two of you will be role models for each other.*

5.2 Design a Plan of Action

A journey of a thousand miles must begin with a single step.

—LAO-TZU

Once a well-defined, achievable, and measurable goal has been identified, the next step is to design a plan to implement the goal. The importance of this component of the intervention cannot be overemphasized. Action planning is a significant predictor of both health risk and health protective behaviors beyond the influence of motivational factors and past behaviors.⁶ This supports a common quote in weight loss programs: “You fail to plan, you plan to fail.” The following reviews the factors that need to be considered for a well-developed action plan.

Investigate the Physical Environment

Explore anything in the physical environment that could help or may hinder achievement of the goal.

Counselor: *Your idea of placing a bowl of clementines on the kitchen counter sounds great. Now let’s think about how you will get the clementines. It is usually not a good idea to rely on anyone else to achieve your goals. Is it possible for you to purchase the clementines? Where will you purchase them? When can you purchase them? Your idea of taking a clementine with you as you go out the door to eat for a mid-morning snack on Monday through Friday sounds like a good idea. Is there anything that could happen that would prevent that*

Anecdote

When goal setting with a client, I always followed the standard criteria of making sure client goals were specific, achievable, measurable, and positive and then developed an action plan. However, once I worked with a client who resisted dwelling on the specifics of implementing her goals. She asked if we could just set a rather clear goal, such as eating three vegetables a day, and not develop an action plan. Somehow this client felt a need to rebel against a specified plan when we had set one. So I followed her request, and she did well in the program. I understood the need to be flexible and to listen to clients’ perception of their needs. I felt good that this client perceived that I was open to hear her concerns.

Review the Cognitive Environment

Explore your client’s cognitive environment regarding the planned goal.

Counselor: *What are you saying to yourself right now about this goal? Does it still seem achievable? Are we being too ambitious to expect five days of fruit for a mid-morning snack? What will you be saying to yourself if you miss a day?*

Explain Positive Coping Talk, If Necessary

If your clients express negative judgments about themselves, suggest that they replace destructive self-talk with a positive coping talk. Explain that a problem is not a failure, but part of the change process. The following is an example of an alternative self-dialogue:

Counselor: *If you find yourself berating yourself, you can substitute another dialogue, such as “I had trouble today. I learned that on days like today I am not likely to eat my orange because. . . . Next time I will . . . I am on the road to a healthier lifestyle.”*

Modify Goal, If Necessary

If the goal appears to be too ambitious, be prepared to modify the goal or to completely put it aside.

Counselor: *It looks as if we got off-track on this one. Let us put this one on hold until we meet next week.*

Exercise 5.1 Analyze and Rewrite Goal Statements

In your journal, record the number of the following goal statements, identify the problem(s) with the statement, and write an alternative goal to meet standard criteria.

Example

Goal: Drink more water.

Problem(s): Not measurable, not specific.

Alternative goal: Take two 16-ounce bottles of water to school each day to drink throughout the day.

1. Cut back on salt.
2. Eat more fruit.
3. Try running at least twice this week.
4. Cut down on intake of bread and cheese.
5. Increase strength training.
6. Increase calories by consuming healthy foods.
7. Lose one pound this week.

Source: From Tapsell, L. C., Brenninger, V., Barnard, J., Applying conversation analysis to foster accurate reporting in the diet history interview. *Journal of the Academy of Nutrition and Dietetics*, Volume 100, Issue 7, 818–824.

Select a Tracking Technique

Explore how the client would like to keep track of the goal—journal, chart on the refrigerator, smartphone app, picture of the empty fruit bowl, and so forth. Tracking procedures are covered in Chapter 6.

Exercise 5.2 Write Your Own Short-Term Goal

Think about an issue, preferably a lifestyle concern, in your own life that you would like to address. In your journal, write a short-term goal that you intend to follow for the upcoming week. Then answer the following questions:

1. Explain why your goal meets the SMART guidelines in Table 5.1.
2. How will you tell whether you have reached your goal?
3. Do you have direct control over the achievement of your goal?
4. Use the assessment graphic, Lifestyle Management Form 4.1, in Appendix C, to identify your motivational level.
5. Design an action plan. Address environmental, social, and cognitive supports or hindrances.
6. How will you monitor progress of the goal?
7. At the end of the week, describe in your journal how successful you were. Analyze why or why not. How useful was the goal-setting process for changing your behavior?

Verbalize the Goal

When you believe the goal is clearly defined, ask your client to verbalize the goal.

Counselor: *Just to be sure we are both clear about the food goal that we established for this week, could you please state the goal?*

Write Down the Goal

It has been said that goals that are not written down are just wishes. Write the goal on an index card and give it to your client. This is a good time to make a statement of support to enhance self-efficacy.

Counselor: *I feel we did a good job. I think you are ready to do this and will be able to achieve your goal this week. However, if there is any difficulty, do not despair—some problems are expected.*

The preceding discussion provides a clear map for implementing the goal-setting process. For most clients who

Exercise 5.3 Practice Goal Setting

Practice setting a goal with a colleague. Each of you should take turns playing the role of counselor and client. When you are the client, it would be best to choose a goal to work on that you feel motivated to implement (for example, write a letter to a friend or eat a piece of fruit for breakfast). If that is not possible, then role-play. The acting counselor should work with the acting client to define a goal and work through an action plan. Record your impressions of this experience in your journal.

Be sure you address all steps of the goal-setting process:

- ☐ Explain the goal-setting process
- ☐ Explore change options: elicit client's ideas, use options tool, explore concerns
- ☐ Identify a specific goal from a broadly stated goal: small talk, explore past, build on successes
- ☐ Define goal: achievable, measurable, client control, positive

Design a Plan of Action:

- ☐ Physical environment
- ☐ Social environment
- ☐ Cognitive environment: explain coping talk
- ☐ Modify goal, if necessary
- ☐ Select a tracking technique
- ☐ Ask client to verbalize goal
- ☐ Write goal down

are ready to make a lifestyle change, the defined process will work well. However, counselors need to keep an open mind, listen carefully to their clients, and remain flexible.

5.3 Dietary Assessment

A **dietary assessment** is part of a comprehensive **nutrition assessment**. The components of a particular nutritional assessment will vary according to the characteristics of the intervention. Components of the Academy of Nutrition and Dietetics Nutrition Care Process nutrition assessment consist of the following: dietary evaluation and nutrition-related history, anthropometric parameters, biochemical data and medical test results, nutrition-focused physical findings, and client history.⁷ In certain situations, an additional functional capacity assessment (for example, vision and dexterity) is needed to evaluate food preparation capability. After accurately gathering all of the assessment information and carefully analyzing the results and relationships between data, the assessor then compares findings to criteria, which could be a goal, nutrition prescription, or standard, and makes a meaningful evaluation. See Table 5.3 for a list of examples of nutrition assessment data using Nutrition Care Process assessment domains. A nutrition counselor may become involved in all aspects of a comprehensive nutritional assessment; however, the greatest impact will be on the dietary assessment. A review of the Nutrition Care Process can be found at the end of this chapter.

Examination of data obtained from assessments can be used to accomplish the following functions:

- Furnish baseline parameters.
- Determine health and nutritional risks.
- Ascertain feasible alternatives for making dietary changes and planning interventions.
- Identify strengths and roadblocks for making lifestyle changes.
- Set priorities for making dietary changes.
- Monitor progress and success of intervention strategies.
- Anticipate appropriate outcomes.

The objective of this section is not to present a comprehensive discussion of nutrition assessment, but to

review some commonly used dietary assessment tools and procedures that can be used to practice nutrition counseling skills. Three steps are involved in completing a dietary evaluation: food intake data collection, data analysis, and interpretation of analysis.

Step 1: Food Intake Data Collection

Methods and tools used to collect data to aid in understanding the kinds and amounts of food consumed and the factors influencing choice include a client assessment questionnaire, food diary and daily food record, usual diet, diet history interview, food frequency, and 24-hour recall. Although these are the standard forms, a

counselor working in the field of nutrition will find that a range of assessment tools are available varying in purpose, length, and complexity. Selection of a particular instrument will depend on the objective of the interaction (the type of clientele), initial or follow-up sessions, number of planned visits, and available resources (computer, time, and so forth). Sometimes an instrument

is needed to address a specific issue, such as hypertension, readiness to lose weight, or psychosocial variables. At other times the assessment tool is employed as a general screening device and has a broader perspective, such as the checklist or the Americans Mini Nutritional Assessment (MNA) developed for older adults. A discussion of this form can be found in Chapter 9.

While collecting data from your client, be careful not to give advice, “preach,” or condemn, because such remarks are likely to be interpreted as judgmental and inhibit the free flow of information. Even words of approval should be avoided because this could encourage a client to give information perceived as good answers. Some people who regularly conduct dietary assessments find it useful to tell clients that there are no wrong answers. Others tell clients not be afraid to give an answer because no one has a perfect diet, and the counselor may even give an example of a low-nutrient-dense food he or she enjoys. Each type of tool has advantages and pitfalls. A summary of the strengths and limitations can be found in Table 5.4. By using more than one instrument, the probability of obtaining a clear picture of your client’s nutrition strengths and problems increases. Let’s take a look at the features of several assessment tools.

Anecdote

I had a twenty-year-old male client whose food intake was a nutritionist’s nightmare. I believe an eight-year-old boy at a birthday party would have eaten better than my client. This person ate almost exclusively high-fat, high-sugar, and high-salt convenience foods. There were no servings of vegetables (except French fries), fruits, dairy, or whole grains. We were having trouble selecting a food goal until I brought up the concept of picturing a meal plate. I was surprised that he connected to this concept because it appeared that he rarely ate what most people would call a meal. Nonetheless, his goal was to eat one meal a day in which his plate consisted of an entrée, grain, and vegetable, each taking up a third of his plate. His goal worked well.

Table 5.3 Nutrition Assessment Data Domains and Examples

Nutrition Care Process Domains (types of data)	Selected examples
Food and Nutrition-Related History	<ul style="list-style-type: none"> • Food and nutrient intake • Food and nutrient administration • Medication and complementary and alternative medicine including herbal supplement use • Knowledge, beliefs, attitudes, including readiness to change • Factors affecting access to food and food- and nutrition-related supplies • Physical activity and function • Nutrition-related patient- and client-centered measures including quality of life
Anthropometric Measurements	<ul style="list-style-type: none"> • Height and length • Weight • Body mass index • Waist circumference
Biochemical Data, Medical Tests, and Procedures	<ul style="list-style-type: none"> • Laboratory data such as hemoglobin, glycosylated hemoglobin (HbA1c), lipid profile • Tests such as resting metabolic rate
Nutrition-Focused Physical Findings	<ul style="list-style-type: none"> • Appetite • Loss or excess of subcutaneous fat • Vital signs including blood pressure
Client History	<ul style="list-style-type: none"> • Personal data such as age, gender, and tobacco use • Medical and health history • Social history (socioeconomic factors, housing situation, medical care support, etc.)

Source: Academy of Nutrition and Dietetics. *International Dietetics & Nutrition Terminology (IDNT) Reference Manual Standardized Language for the Nutrition Care Process*. 4th ed. Chicago: Academy of Nutrition and Dietetics, 2013.

Client Assessment Questionnaire (Historical Data Form) Sometimes referred to as an *intake form*, client assessment questionnaires generally contain several divisions addressing information about historical data. See Lifestyle Management Form 5.1 in Appendix C for an example. The top of this form has an administrative section and is usually followed by questions related to medical history. These questions are not asked for the purpose of making a diagnosis; they are asked to ascertain any medical factors that could have a nutritional impact. The family health history portion of the form provides information about a possible tendency toward a particular health condition. This has nutritional implications for your client. For example, a family history of heart disease may warrant an emphasis on heart-healthy foods. Drug history questions provide information about medications, herbal preparations, and nutrient supplements that may impact nutritional status. Care should be taken to check for any interactions of food and drugs that can alter the effectiveness of a drug and a client's nutritional status. A section on socioeconomic

history furnishes valuable information about your clients' support systems, family settings, or significant others—any of which can play a role in their ability to make successful diet changes. This information can be especially helpful during the goal-setting process, when exploring with your clients whether there are particular individuals in their lives who may interfere or help them achieve their goals. The food pattern section, often referred to as *dietary history*, contains questions about food preferences and food selection variables that influence food intake. This knowledge will be particularly helpful for prioritizing goals and designing interventions. A final section that requests clients to identify nutrition issues they would like to explore helps in planning the educational component of future sessions. These forms can be tailored to meet counseling needs for specific clientele. For example, if serving mainly low-income individuals or students living in a dormitory, you would have a greater need for questions about accessibility to refrigeration and cooking facilities. A form to be used with eating disorder

Table 5.4 Summary of Methods, Strengths, and Limitations of Selected Diet Assessment Tools/Procedures

Method	Strengths	Limitations
<i>Client assessment questionnaire and historical data form:</i> a preliminary nutritional assessment form usually divided into sections for administrative data, medical history, medication data, psychosocial history, and food patterns	<ul style="list-style-type: none"> Provides clues to strengths and potential barriers 	<ul style="list-style-type: none"> May seem invasive May not be culturally sensitive
<i>Food diary and daily food record:</i> a written record of an individual's food and beverages consumed over a period of time, usually three to seven days	<ul style="list-style-type: none"> Does not depend on memory Provides accurate intake data Provides information about food habits 	<ul style="list-style-type: none"> Requires literacy Requires a motivated client Recording process may influence food intake Requires ability to measure and judge portion sizes Time-consuming
<i>24-hour recall:</i> a dietary assessment method in which an individual is requested to recall all food and beverages consumed in a 24-hour period	<ul style="list-style-type: none"> Quick Data can be directly entered into an analysis program No burden for respondent Does not influence usual diet Literacy not required 	<ul style="list-style-type: none"> Relies on memory May not represent usual diet Requires ability to judge portion sizes Under-reporting and over-reporting occur
<i>Food frequency:</i> a method of analyzing a diet based on how often foods are consumed (that is, servings per day, week, month, or year)	<ul style="list-style-type: none"> Furnishes overall picture of diet Not affected by season Useful for screening 	<ul style="list-style-type: none"> Requires ability to judge portion sizes No meal pattern data
<i>Usual diet:</i> clients are led through a series of questions to describe the typical foods consumed in a day	<ul style="list-style-type: none"> May be more of a typical representation than a 24-hour recall 	<ul style="list-style-type: none"> Not useful if diet pattern varies considerably
<i>Diet history interview:</i> a conversational assessment method in which clients are asked to review their normal day's eating pattern	<ul style="list-style-type: none"> Provides clarification of issues 	<ul style="list-style-type: none"> Relies on memory Requires interview training

clients could contain specific questions about laxative use or purging, and a form for weight control clients may have a request to provide weight history.

Portion Size Many of the following methods require clients to estimate or measure their portion sizes. There are a number of short videos on YouTube that can be used as an instruction tool for clients who will be keeping food records. Some use your hand as a way to visualize portion size. Several aids have been employed to help respondents recall portion sizes for retrospective data collection. These include two- and three-dimensional food models; various shapes of cardboard or plastic household cups, bowls, plates, glasses, and spoons; life-size photographs; graduated measuring spoons and cups for liquid and dry ingredients; and a ruler. Containers with two to three cups of dried beans, rice, or dry cereal can also be helpful for estimating portion sizes, as can

premeasured plastic or net bags of beans in sizes equal to one cup, one-half cup, and one-quarter cup. The International Food Information Council provides the following portion size equivalents:

Commonly Used Estimates of Portion Sizes

One-half cup fruit, vegetable, cooked cereal, pasta, or rice = a small fist

Three ounces cooked meat, poultry, or fish = a deck of cards

One tortilla (1 oz.) = a small (6-inch) plate

Half bagel (1 oz.) = the width of a small drink lid

One teaspoon of margarine or butter = a thumb tip

One tablespoon of peanut butter = two checkers

A small baked potato = a computer mouse

One medium apple or orange (1 cup) = a baseball

1.5 ounces of cheese = six dice

1.5 cups soft drink or fruit drink (12 oz.) = 1 can

Exercise 5.4 Estimating Portion Sizes

As nutrition counselors and educators, we need to be familiar with resources to help ourselves and our clients visualize amounts of food. The following provides two activities to help with the process:

1. Go to the National Heart Lung and Blood Institute Health Topics website, <https://www.nhlbi.nih.gov/health-topics>, and search for Portion Distortion. Complete both slide sets.
 - ☐ Write two reactions to the activity in your journal, and explain what you learned that will help you as a nutrition professional.
2. Estimate the amount of liquid, cereal, and beans in various-sized cups, glasses, bowls, and plates set up by your instructor. In addition, estimate the serving sizes of each food item in both “standard” and “large portion” TV dinners.
 - ☐ Record your reaction to this activity in your journal. Indicate how this experience relates to future counseling experiences.

Food Diary and Daily Food Record To employ this method, a client records food and liquid intake along with preparation method as it occurs for a specified period, generally three to seven days. Sometimes additional information is recorded such as time, place, activities, social setting, degree of hunger, and emotional state. A limitation of this tool for assessment is the impact recording can have on food intake. The hassle of writing a food item in a journal could discourage consumption of some foods, and the activity of recording encourages a person to take time to evaluate the particular choice. As a result, food diaries can be used as an intervention technique to alter food habits as discussed under journaling in Chapter 6. Review of food records is especially useful for both the counselor and client to gain insight into the client’s eating lifestyle. Identification of positive behaviors may help identify skills that merit expansion to help solve problem areas. Clients need to be given directions for completing food record forms and guidelines for measuring, weighing, and estimating portion sizes. Because accuracy declines if weighing all food items is requested (clients may be less likely to eat some foods due to the burden of weighing), household measures are generally considered acceptable⁸. See Lifestyle Management Form 5.2 in Appendix C for an example of a food diary

recording form. There are a variety of apps available on smartphones that can be used here also.

Usual Intake Form

The usual intake form gives a counselor an idea of a client’s typical daily pattern of food intake. This form is simple and generally not time-consuming to complete. However, its usefulness will be limited for clients whose intake varies widely from day to day. In such cases, answering general questions would be difficult, and another assessment tool should be used.

The assessor begins by inquiring into the client’s initial food or drink of the day. This line of questioning continues until a daily pattern has emerged. The counselor must refrain from asking leading questions that may influence answers, such as, “What did you eat for breakfast?” This is a leading question because the client may not eat breakfast. Probing questions should be asked to ascertain the nutrient characteristics of the items consumed. For example, if a sandwich is generally consumed for lunch, investigate the type of bread, filling, and condiments. See Lifestyle Management Form 5.3 in Appendix C for an example of a usual intake form.

Diet History Interview

A diet history interview is similar to asking clients about their usual diets; however, the emphasis is on minimizing questions and allowing clients to tell their “stories.” Clients are invited to give an account of a normal day’s eating pattern, with the counselor utilizing attending skills and interrupting as little as possible. In this respect, the technique is similar to “a typical day” strategy covered in Chapter 3. After the narrative, the counselor selectively chooses follow-up questions to obtain only new and relevant information. The conversational emphasis of this approach interfaces well with the motivational nutrition counseling protocol (Chapters 2 and 4) as well as the culturally sensitive respondent-driven interview (Chapter 9).

During the process of conducting a diet history interview, a counselor could use the 24-Hour Recall and Usual Intake Form (Lifestyle Management Form 5.3 in Appendix C) to record a client’s diet pattern. However, the act of completing the form should not be allowed to interfere with your clients’ ability to relate their stories. The conversational nature of this approach will be disrupted if clients are asked to repeat something, and attending skills will be less than adequate if a counselor is eyeing a piece of paper for most of the interview. Quickly jotting down notes during the story would probably work well. Alternatively, the usual diet form

could be filled out after the client has related his or her story while probing questions are used for clarification. See Exhibit 5.1 for a protocol of the method.

Food Frequency Checklist The food frequency checklist is an assessment tool containing lists of food grouped according to similarity in nutrient quality and quantity. They are designed to be either read to clients by an interviewer or distributed in printed form for self-administration. The form contains a set of response

options to be checked off that indicate how often certain foods are consumed (for example, by the day, week, month, and so forth). Some questionnaires are designed to consider one or two specific nutrients, such as calcium or fat and cholesterol, whereas others are comprehensive in scope such as the NHANES Food Frequency Questionnaire.⁹ Food frequency questionnaires vary in the amount of detail requested regarding serving size and preparation methods. If they are too short, the knowledge gained is limited. If they are too long,

Exhibit 5.1 Protocol for Diet History Interview

Diet History

The purpose of the diet history is to obtain an account of a person's usual food intake. Structurally, it takes the form of a description of meals consumed throughout the day accompanied by a food frequency cross-check. One way of looking at the first component of the diet history is as a story with a beginning (usually breakfast) and end (usually supper or evening snack). Use of the narrative approach means that participants are given the opportunity to finish their story before they are asked any questions. In this way, the flow of participants' information is not interrupted (but what they say is acknowledged and supported by the interviewer). Additional comments, not necessarily on food, per se, made during this description may provide the interviewer with insights for questions or discussion addressed later. When introducing the diet history, the interviewer refers to the notion of usual, meaning within the past couple of months, and of a time sequence for the description, such as the duration of the day. Participants are asked to provide a general pattern and then point out variations.

Interview Protocol

- Explain the purpose of the interview. Advise the participant that you are seeking a description of usual eating patterns and suggest that she or he start with the beginning of the day.
- If the participant begins with the first meal of the day and uses time references or meal sequences of the day to progress with the description, do not interrupt the story; merely indicate that you are listening (nod, write, say "hmm" or "yes").
- If the participant stops at intervals along the way waiting for you to respond, provide narrative support to continue—for example, "Was that all for breakfast?" or "Do you have anything after that?"
- If the participant volunteers explanations for why or how she or he consumes certain foods, acknowledge the explanations in a supportive, nonjudgmental way, but keep the account on track.
- When the participant has reached the end of the day, look at what you have noted and identify areas for which you need more detail. This will depend on the purpose for taking the history. Ask specific, strategic questions.
- If the participant responds to a topic with "It depends," be sure to encourage all possible variations on that topic (usually a meal description).
- If the participant says "probably" in defining amounts of foods, use visual aids to assist in the estimation process.
- Summarize the overall pattern of the diet and ask whether there is a great deal of variation in this pattern. Note the variation.
- Proceed with a food frequency checklist and questions on food preparation.
- Ask the participant if there is anything else she (or he) would like to add to the diet story and if she or he thinks you have a true reflection of her or his usual eating pattern.

Source: From Tapsell, L. C., Brenninger, V., Barnard, J., Applying conversation analysis to foster accurate reporting in the diet history interview. *Journal of the Academy of Nutrition and Dietetics*, Volume 100, Issue 7, 818–824.

the process of completing the form is tedious and accuracy can decline. In addition, the instrument may not list ethnic or child-appropriate foods. In a clinical setting, you may consider a general food frequency questionnaire and a 24-hour recall to better evaluate your client's food intake. Overall, this method is easy for most people to use. The questionnaire helps counselors evaluate diet in terms of how often certain foods and food groups are eaten. Food groups that are not eaten often or that are omitted are indications of dietary imbalances. Close attention should also be given to the nutritional desirability of frequently consumed foods. (See Figure 5.2 and Lifestyle Management Form 5.4 in Appendix C for examples.)

24-Hour Recall In this method, the interviewer asks the client to recall all foods, beverages, and nutritional supplements consumed, including amounts and preparation methods, over a 24-hour period. Counselors can define the period of time from midnight to midnight of the previous day or the past 24 hours. The starting point can be the most recent or the most distant of the 24-hour period. The 24-Hour Recall Form is similar to a Usual Diet Form, and these two tools have been combined in Lifestyle Management Form 5.3 in Appendix C.

An advantage of this method is that it is easy to administer and requires little effort on the part of the client. However, one day may not be representative of a person's usual intake. This difficulty can be overcome if the 24-hour recall is administered on several nonconsecutive days, including both weekdays and weekend days.

Although this form can be self-administered, the accuracy increases if counselors assist their clients in recalling their food consumption and portion sizes.¹⁰ The following are some components of an effective 24-hour recall:

- Do not ask leading questions, such as those assuming a meal was eaten. Refrain from prompts, such as "What did you eat for breakfast?" Better to ask, "What liquids or foods were first consumed after waking up today?"
- Ask probing questions. For example, "You said you had a lot of butter on your toast. How much is a lot? What kind of bread was used to make the toast? Was anything else put on the toast besides butter?"
- Ask sequential questions about the day's activities, travels, and encounters with others to help clients recall foods consumed. Inquire if any foods were consumed during meal preparation or clean-up or during the middle of the night.

- Use portion size estimation tools and food models to improve the accuracy of the answers.
- Research has shown that certain food items are frequently missed in 24-hour recalls—crackers, breads, rolls, tortillas; hot or cold cereals; cheese added as a topping on vegetables or on a sandwich; chips, candy, nuts, seeds; fruit eaten with meals or as a snack; coffee, tea, soft drinks, juices; and beer, wine cocktails, brandy, any other drinks made with liquor. Sugerman et al.¹¹ suggest going over this list before completing the recall to be sure so that none of the items were missed.
- Another aid to increasing retrieval of memory is the multiple-pass procedure.¹² Depending on your need for accuracy, you may consider utilizing the validated USDA five-step multiple-pass method.¹³


The five steps include (a) a quick list, in which clients recall foods and beverages consumed in sequence during a 24-hour period without interruption; (b) clients are queried on the forgotten food list, as described previously; (c) clients are probed to recall time and occasion at which foods were consumed; (d) the detail cycle, in which clients are asked to provide descriptions of foods and amounts with the aid of models and measuring guides; and (e) the final probe review, in which clients are questioned regarding type, amounts, additions and toppings, and preparation methods.

Culturally Appropriate Assessment Instruments There is a critical need for the development of culturally specific techniques and tools to conduct nutritional assessments.¹⁴ Depending on communication difficulties and cultural feelings about invasiveness, a counselor may find a qualitative rather than a quantitative approach to yield greater success.¹⁵ To establish trust during the first session, consider using "a typical day technique" reviewed in Chapter 4 or the diet history interview data collection method covered in this chapter. These approaches eliminate the need to differentiate meals or categorize food items. A request for additional information such as frequency and portion size could be delayed until the next meeting.

Step 2: Data Analysis

After dietary information is collected, the data need to be analyzed for food groups and components of food, such as energy, nutrients, or phytochemicals.

- Food group evaluations can generally be done quickly, making immediate feedback possible. Some forms have the standards on the collection form or as an attachment to the assessment form, allowing

American Medical Association
 Physicians dedicated to the health of America


Eating Pattern Questionnaire

Name _____ Date _____

Please answer the following questions and check the appropriate boxes that most closely describe your eating patterns.

1. Do you follow a special diet?

☐ No
☐ Diabetic
☐ Low sodium

☐ Low fat
☐ Kosher
☐ Vegetarian

☐ Other

Give examples of what guidelines or diets, if any, you follow: _____

2. Which meals do you regularly eat?

☐ Breakfast
☐ Lunch
☐ Brunch
☐ Dinner
3. When do you snack?

☐ Morning
☐ Afternoon
☐ Evening

☐ Late night
☐ Throughout the day

What are your favorite snack foods? _____

4. Do you eat out or order food in?

☐ Yes
☐ No

How often?

☐ Daily
☐ Weekly
☐ Monthly
☐ Other

What kind of restaurant(s)/eating facilities? _____

What kinds of cuisine? _____

5. How is your food usually prepared? (check all that apply)

☐ Baked
☐ Broiled
☐ Boiled
☐ Fried

☐ Steamed
☐ Poached
☐ Other
6. How many times each day do you have the following food items?

a. Starch (bread, bagel, roll, cereal, pasta, noodles, rice, potato)
☐ Never ☐ Less than 1 ☐ 1–2 ☐ 3–5 ☐ 6–8 ☐ 9–11

b. Fruit
☐ Never ☐ Less than 1 ☐ 1–2 ☐ 3–5 ☐ 6–8 ☐ 9–11

c. Vegetables
☐ Never ☐ Less than 1 ☐ 1–2 ☐ 3–5 ☐ 6–8 ☐ 9–11

d. Dairy (milk, yogurt)
☐ Never ☐ Less than 1 ☐ 1–2 ☐ 3–5 ☐ 6–8 ☐ 9–11

e. Meat, fish, poultry, eggs, cheese
☐ Never ☐ Less than 1 ☐ 1–2 ☐ 3–5 ☐ 6–8 ☐ 9–11

f. Fat (butter, margarine, mayonnaise, oil, salad dressing, sour cream, cream cheese)
☐ Never ☐ Less than 1 ☐ 1–2 ☐ 3–5 ☐ 6–8 ☐ 9–11

g. Sweets (candy, cake, regular soda, juice)
☐ Never ☐ Less than 1 ☐ 1–2 ☐ 3–5 ☐ 6–8 ☐ 9–11
7. What beverages do you drink daily and how much?

☐ Water _____ times or glasses per day (8 oz)

☐ Coffee _____ times or cups per day

☐ Tea _____ times or cups per day

☐ Soda _____ times or glasses per day (12 oz)

☐ Alcohol _____ times or glasses per day (12 oz)

☐ Other _____ times or glasses per day
 (Specify) _____
8. Would you like to change your eating habits?

☐ Yes ☐ No

Which habits would you like to begin to change?

Figure 5.2 Eating Pattern Questionnaire

Source: Copyright 2003. American Medical Association. All Rights Reserved.

for a speedy evaluation. See Lifestyle Management Form 5.3 in Appendix C.

- Food component analysis is rather time-consuming, so generally feedback cannot be given the same day data are collected. Nutrients can be analyzed from food composition tables, the U.S. Department of

Agriculture (USDA) Nutrient Database (www.nal.usda.gov), or with the aid of a nutritional analysis software program. If the client is using a smart food app that allows sharing the information with a coach or counselor, an electronic dietary analysis may be easily available.

Exercise 5.5 Practice Gathering Information for a Dietary Assessment

Complete a client assessment questionnaire and a food frequency questionnaire (Lifestyle Management Forms 5.1 and 5.4 in Appendix C) based on your own diet history and food habits. Exchange forms with a colleague and take turns acting as a counselor. Gather information using the following interview guide. The collected data will be evaluated in Exercise 5.8.

- ☐ Ask your client whether she or he has any nutritional concerns.
- ☐ Review the completed Client Assessment Questionnaire, Lifestyle Management Form 5.1 in Appendix C— *What came to your mind as you were filling out this form? What topics covered in this form do you think have particular importance for your food issues?* Look over the form and ask for clarification where appropriate. Your client may have already covered relevant issues in response to your previous open questions.
- ☐ Conduct a diet history interview. Follow the protocol in Exhibit 5.1. While your client is telling you his or her story, fill in additional information on the 24-Hour Recall and Usual Diet Form, Lifestyle Management Form 5.3 in Appendix C if warranted.
- ☐ Summarize.
- ☐ Review the completed Food Frequency Questionnaire, Lifestyle Management Form 5.4 in Appendix C. Clarify portion sizes using food models, if needed. *What came to your mind as you were filling out this form? Did you feel a need to clarify or expand on anything while you were completing this form?*
 - ☐ In your journal, write your impressions of this experience as a client and as a counselor.

Exercise 5.6 Conduct a 24-Hour Recall

Using Lifestyle Management Form 5.3 in Appendix C, take turns with a colleague administering a 24-hour recall. Use USDA Five-Step multiple-pass method described in this chapter and visual aids to help estimate portion sizes.

- ☐ In your journal, write your impressions of the experience.

See Figures 5.3 and 5.4.

- **Dietary Reference Intakes (DRIs)** are commonly used standards when assessment of specific nutrients is desired; they can be found on this book's inside cover. They are divided into four categories: Estimated Average Requirements (EARs), Recommended Dietary Allowances (RDAs), Adequate Intakes (AIs), and Tolerable Upper Intake Levels (ULs). For a description of these divisions, see Table 5.5 and the USDA website (www.nal.usda.gov/).
- **Dietary Approaches to Stop Hypertension (DASH)**—for clients who desire a more ambitious

Step 3: Interpretation of Analysis

Interpretation of analysis of dietary information is done by comparing the data analysis to a standard. Computer programs automatically execute both steps 2 and 3—that is, analyze and interpret, generally for food groups and nutrients. The following describes the most commonly used standards:

- **MyPlate** is a nutrition guide published by the U.S. Department of Agriculture, using a familiar meal time visual, a plate and glass divided into five food groups, found at <http://choosemyplate.gov/> See Figure 5.3. The website provides a host of educational and motivational materials. Other organizations have produced similar guides that you can consider using for your population group, including Harvard School of Public Health's Healthy Eating Plate and the American Diabetes Association's Create Your Plate See Figure 5.4.

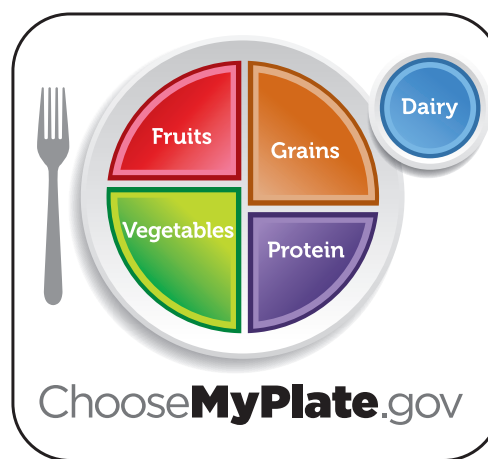


Figure 5.3 Choose MyPlate
Source: Found at <http://myplate.gov/>

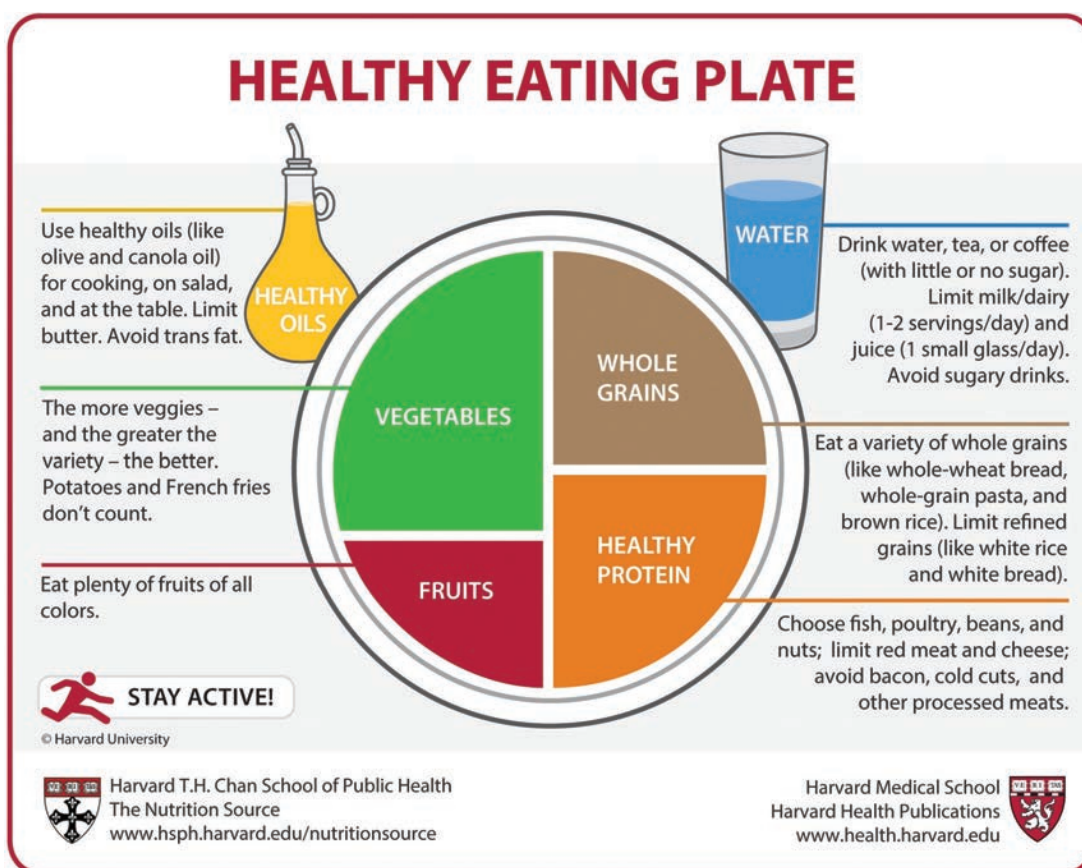


Figure 5.4 Healthy Eating Plate

Copyright © 2011, Harvard University. For more information about The Healthy Eating Plate, please see The Nutrition Source, Department of Nutrition, Harvard School of Public Health, www.thenutritionsource.org, and Harvard Health Publications, www.health.harvard.edu.

Table 5.5 Recommended Dietary Intake Terms

Term	Definition
Adequate Intake	Amount of a nutrient that maintains a function; used when recommended dietary allowance (RDA) cannot be determined
Recommended Dietary Allowances (RDAs)	The amount of a nutrient covering the needs of nearly all healthy individuals
Estimated Average Requirements (EARs)	Amount of a nutrient estimated to meet the requirement of half the healthy people in a given age and gender group
Tolerable Upper Intake Level (UL)	Maximum level of a nutrient that appears safe

dietary regimen, comparisons could be made to the DASH eating plan, particularly if you are working with an individual who has elevated blood pressure. The National Heart Lung and Blood Institute has a booklet, *In Brief: Your Guide to Lowering Your*

Blood Pressure With DASH, which can be downloaded from their website. The DASH Food Plan is a heart-healthy regimen rich in fruits, vegetables, fiber, and low-fat dairy foods and low in saturated and total fat. See Appendix A. Although the DASH food plan

was developed to address high blood pressure, the plan has been found to be useful for everyone to guide healthful eating. Some nutrition professionals like to use this plan to do a quick assessment of a client's food intake so that immediate feedback can be provided.

- Eating Well with Canada's Food Guide (<https://food-guide.canada.ca/en/>) can also be used to assess diet for general good health.
- eaTracler is a consumer-focused program created by Dietitians of Canada with options to log food and exercise, plan meals, analyze recipes, evaluate nutrient intake, and track progress.

Exercise 5.7 Explore Interactive DRI for Health Care Professionals Website

Go to the USDA Food and Nutrition Information Center to explore the Interactive DRI for Health Care Professionals at <http://fnic.nal.usda.gov/dietary-guidance/interactive-tools>. Use this tool to calculate your BMI, daily calorie needs, and daily nutrient recommendations for dietary planning based on the Dietary Reference Intakes (DRIs).

- ❑ In your journal, describe your experience using the website. Explain how a nutrition educator or counselor could use this site for nutrition interventions.

Exercise 5.8 Data Analysis and Interpretation

To complete this activity, work with the same colleague you paired with for Exercise 5.5.

- ❑ Review the feedback form, point by point, in a nonjudgmental manner with your client. Compare the standards to your volunteer's food intake. *As you can see, your usual vegetable intake is 1 cup a day, and the recommendation is about 2 ½ cups a day.* Continue in this vein until you have gone over all the findings.
- ❑ Ask your client his or her impression of the evaluation. *What do you think about this information?*
- ❑ If your client expresses interest in making a change, use the Assessment Graphic (Lifestyle Management Form 4.1 in Appendix C) to determine the degree of motivation.
- ❑ Summarize.
 - Write your reactions to this exercise in your journal. What did you learn from this experience that you would like to incorporate or change when working with future clients?

5.4 Energy Determinations

Nutrition counselors may need to estimate *total energy expenditure* (TEE) of their clients for a variety of therapeutic reasons, including planning a weight-loss program. There are three components making up TEE: *resting energy expenditure*, the *thermic effect of food*, and *energy expended in physical activity*. Generally, only resting energy and physical activity energy are calculated in counseling interventions. The thermic effect of food is often omitted because the inherent error factor of the total equation is greater than the amount that would be added due to the thermic effect value.¹⁶ The following sections outline the steps for calculating TEE.

Step 1: Determine Resting Energy Expenditure (REE)

REE is the energy needed to sustain life functions, such as respiration, beating of the heart, and kidney function over a 24-hour period. Nutrition counselors generally determine REE by using a formula or by indirect calorimetry, as shown in Figure 5.5. Several standard formulas can be used to estimate REE. See Table 5.6 for two commonly used formulas. The Academy of Nutrition and Dietetics Evidence Analysis Library recommends the use of indirect calorimetry to measure REE for overweight and obese individuals, and if that is not available, they recommend using the Mifflin-St Jeor Equations for this population group.

Step 2: Select a Physical Activity (PA) Factor

Table 5.7 provides factors for physical activity level.

Step 3: Determine TEE

Multiply REE times PA to obtain the estimated TEE (kilocalories/day) to maintain weight. $REE \times PA = TEE$



Figure 5.5 Indirect Calorimetry

Source: KEN LOVE/KRT/Newscom

Table 5.6 Equations for Determining Resting Energy Expenditure for Adults*

Name	Equation
Mifflin-St Jeor Equations	Men: REE = $[10 \times \text{weight (kilograms)}] + [6.25 \times \text{height (centimeters)}] - (5 \times \text{age}) + 5$ Women: REE = $[10 \times \text{weight (kilograms)}] + [6.25 \times \text{height (centimeters)}] - (5 \times \text{age}) - 161$
Harris Benedict Equation	Men: REE = $[66.5 + 13.8 \times \text{weight (kilograms)}] + [5.0 \times \text{height (centimeters)}] - 6.8 \times \text{age}$ Women: REE = $[655.1 + 9.6 \times \text{weight (kilograms)}] + [1.9 \times \text{height (centimeters)}] - 4.7 \times \text{age}$
To convert inches to centimeters, multiply inches times 2.54. To convert pounds to kilograms, divide pounds by 2.2.	

*Values rounded for simplicity.

Table 5.7 Physical Activity (PA) Level Factors

Activity Level	PA	Typical Daily Living Activities
Sedentary	1.2	Only physical activities typical of daily living
Low active	1.375	30–60 minutes of moderate activity
Active	1.55	≥60 minutes of moderate activity
Very active	1.725	≥60 minutes of moderate activity plus 60 minute vigorous or 120 minutes of moderate activity
Extremely active	1.9	Daily vigorous activity

Note: Moderate activity is equivalent to walking at 3 to 4½ mph.

Exercise 5.9 Calculate Your Total Energy Expenditure (TEE)

Calculate your TEE using the Mifflin-St. Jeor and the Harris-Benedict equations for REE.

- ☐ Compare and contrast the two methods in your journal.

Step 4: Adjust for Weight Loss

If weight loss is desired, subtract 500 kilocalories/day to obtain adjusted caloric intake required to achieve weight loss of approximately 1 pound per week.

5.5 Physical Assessments and Healthy Weight Standards

Because weight issues are related to many of the major health problems in North America, nutrition counselors often need to address **overweight** or **obesity** concerns. Government reports indicate that 70.2% of adult Americans are overweight, and more than 39.8% are obese.^{17,18} See Figure 5.5. The following sections describe commonly used methods and standards for assessing weight.

Body Mass Index

Body mass index (BMI) is the preferred weight-for-height standard and is used as a determinant of health risk and a predictor of mortality. It can be determined from existing tables, equations, or websites. A BMI chart can be found in Appendix B. The following National Heart, Lung, and Blood Institute website provides downloadable BMI tables, an electronic calculation of BMI, and downloadable calculators for the iPhone and android: https://www.nhlbi.nih.gov/health/educational/lose_wt/BMI/bmicalc.htm. The standard calculation is based on metric units, but BMI can be estimated from another equation using pounds and inches:

$$\text{BMI} = \text{weight (kilograms)} \times \text{height (meters)}^2$$

(1 pound = 0.4536 kilogram)
(1 inch = 2.54 centimeters = 0.0254 meter)

$$\text{BMI} = (\text{weight [pounds]} \div \text{height [inches]}^2) \times 703$$

In general, a healthy weight-for-height is a BMI ranging from 18.5 to 24.9, with a midpoint of 22. It can be used to conveniently to calculate an individual's goal weight. See Exhibit 5.2. The risk for developing associated morbidities or diseases such as hypertension, high blood cholesterol, type 2 diabetes, and coronary heart

Exhibit 5.2 BMI Chart Used to Determine Healthy Weight

Go to the BMI Chart in Appendix B. Find your client's height and run your finger along the corresponding horizontal line until you come to the weight that matches the desired BMI, such as 24. That weight will be the healthy body weight, which could be used as a goal weight. Suppose a man was 5 feet, 6 inches tall and wanted to know a healthy weight. You begin at the horizontal line corresponding to that height and run your finger along the line until you reach the weight number that vertically corresponds to 24. That weight is 148 pounds. If the person's weight is 158 pounds, that would mean he would need to lose 10 pounds to achieve a BMI of 24.

Exercise 5.10 Use the BMI Chart to Determine Healthy Body Weight

Determine the healthy body weight for a male who is 5 feet, 7 inches tall using the BMI chart in Appendix B. For guidance, refer to Exhibit 5.2.

- ☐ Record your answers in your journal.

disease begins to climb above the desirable range (25).¹⁹ Mortality risk increases for both underweight and overweight (Figure 5.7). See Table 5.9 for weight classification according to body mass index.

The current BMI standards for increased risk for disease and mortality do not meet the needs of all population groups. The World Health Organization report suggests using 23 as the level indicating overweight and 27.5 as the cut-off for obesity for most Asians.²⁰ For Pacific Islanders, the cut-off for overweight has been identified as 26. BMI cannot be used as a standard to estimate body fat risk for pregnant and lactating women, highly muscular people, growing children, or adults over age 65.²¹ Meta analysis of mortality outcomes in older adults indicates that individuals with a BMI in the overweight range (i.e., 25–29.9) have a similar or lower risk of all-cause mortality than those in the normal-weight range.

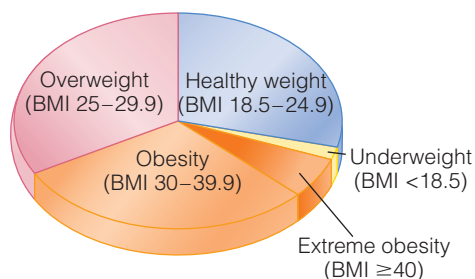


Figure 5.6 Distribution of Body Mass Index in U.S. Adults
Source: From Whitney, Rolfes, *Understanding Nutrition*, 14th ed. © 2016, Brooks/Cole, a part of Cengage Learning, Inc. Reproduced by permission. www.cengage.com/permissions.

Waist Circumference

Waist circumference is an indicator of upper abdominal fat (stomach area) accumulation and is used to assess central or upper-body obesity. People with this type of obesity are sometimes referred to as “apples” or as having **android** (manlike) fat distribution, and they are at an increased risk for heart disease, stroke, diabetes, hypertension, and some types of cancer. See Figure 5.8. As a general rule, risk of central obesity-related health problems increases for women with a waist circumference greater than 35 inches (88 centimeters) and for men greater than 40 inches (102 centimeters). To modify health risks for Asians, the cut-off points should be modified to 31.5 inches (80 centimeters) in Asian women and 33.5 inches (85 centimeters) in Asian men.²² Smoking, high alcohol intake, and menopause tend to increase abdominal fat, and exercise tends to decrease

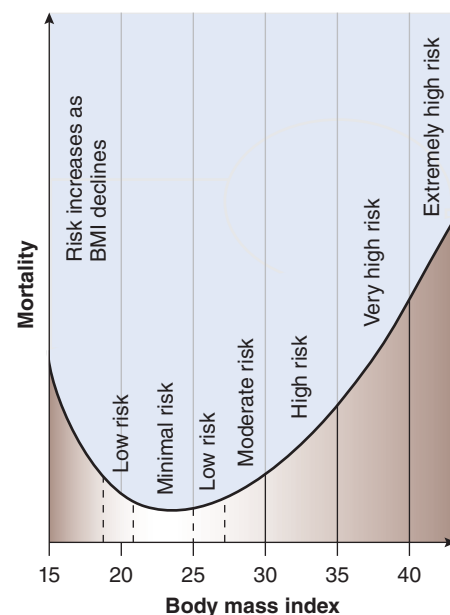


Figure 5.7 Body Mass Index and Mortality



Upper-body fat is more common in men than in women and may be more closely associated with chronic diseases.

Lower-body fat is more common in women than in men and is not usually associated with chronic diseases.

Figure 5.8 Examples of Apple and Pear Body Shapes

Source: From Whitney, Rolfes, *Understanding Nutrition*, 14th ed. © 2016, Brooks/Cole, a part of Cengage Learning, Inc. Reproduced by permission. www.cengage.com/permissions.

it. People who accumulate fat in their hips and thighs are not as susceptible to the obesity-related diseases, but their fat is more resistant to breaking down from calorie deprivation and exercise. These people are often referred to as having a pear shape or **gynoid** (womanlike) fat distribution. See Table 5.8 for the methodology to correctly measure waist circumference. For individuals who have

Table 5.8 Measuring Waist Circumference

To correctly measure waist circumference:

1. Locate the upper hip bone and the top of the right iliac crest.
2. Place a measuring tape in a horizontal plane around the abdomen at the level of the top of the iliac crest (waist).
3. Be sure that the tape is snug, but does not compress the skin, and is parallel to the floor.
4. Read the measurement at the end of a normal expiration of breath.

Source: Adapted from *The Practical Guide to the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults*. National Heart, Lung, and Blood Institute and North American Association for the Study of Obesity. Bethesda, MD: National Institutes of Health, 2000. NIH Publication number 00-4084, October 2000.

very large waists and for whom health risks have already been determined by BMI and other risk factors, a waist measurement is not likely to provide additional useful data. See Table 5.9. The following is a list of conditions for which waist measurements can provide useful data for an intervention:^{23,24}

- Individuals with a normal BMI, to determine disease risk.
- Individuals with a BMI, 35, to determine disease risk. (Those who have a BMI of 35 are at risk for disease in spite of waist circumference.)
- Clients who have been making diet and exercise changes, to monitor progress.

Table 5.9 Health Risk Relative to Body Mass Index and Waist Circumference

Classification	BMI	Risk With Normal Waist	Risk With High Risk Waist
Underweight	<18.5	Increased	Increased
Normal	18.5–24.9	Not elevated	Increased
Overweight	25.0–29.9	Increased	High
Obesity class I	30.0–34.9	High	Very high
Obesity class II	35.0–39.9	Very high	Very high
Obesity class III	≥40	Extremely high	Extremely high

Normal waist: Men ≤ 40 inches, women ≤ 35 inches

High-risk waist: Men > 40 inches, women > 35 inches

Source: Adapted from *The Practical Guide to the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults*. National Heart, Lung, and Blood Institute and North American Association for the Study of Obesity. Bethesda, Md: National Institutes of Health, 2000. NIH Publication number 00-4084, October 2000.

Exercise 5.11 Assess Your Weight

Complete the chart for yourself and transfer the data to your journal.

MEASUREMENTS	STANDARD
Actual weight	BMI healthy weight (Exhibit 5.2 and Appendix B)
Body mass index	Desirable = 18.5–24.9
Waist circumference	High risk: males, >102 centimeters (40 inches), Asian males, >85 centimeters (33.5 inches); females, >88 centimeters (35 inches), Asian females, >80 centimeters (31.5 inches)

- ☐ Some authorities believe that North American health officials often assess health through a thinness lens. What is your impression of that statement in light of the various methods you just used to assess your healthy weight?

5.6 Documentation and Charting

If it's not documented, it didn't happen.

—ANONYMOUS

After completing a counseling session, the next step is to reflect, evaluate, document, and plan. The amount of time available for this step will depend on the setting of the counseling session. The Client Concerns and Strengths Log, Lifestyle Management Form 5.6 in Appendix C and Exhibit 5.3, can aid in that endeavor by guiding reflection on the concerns and strengths expressed by your client and identified by you. This activity is particularly useful to a novice counselor who may become bogged down with concerns over which the client has little control. This reflection could be shared with your client during the next session, or the activity may help you to form the framework for future counseling sessions. The specific criterion in the documentation depends on institutional standards or the setting of the intervention. Charting can provide the following benefits:

- Evidence of care
- Demonstration of accountability in meeting legal, regulatory, and professional standards
- A basis for evaluation and planning to ensure quality care
- Documentation for legal protection of clients, practitioners, and facility

- A tool for communication among health care team members
- Justification for third-party reimbursement

Because charting in medical records is considered a legal document, care must be taken to provide clear, well-written notes that address **JCAHO** standards. The development of automated computer systems streamlines charting and has become commonplace. However, there may still be facilities that require handwritten documentation, and if you are in a private or small practice, you may prefer handwritten records. The following are some general guidelines for documentation of counseling sessions:

- Notes should be concise. Goals and plans should not be embodied in a lengthy narrative. Physicians are more likely to respond to dietitian recommendations when goals and plans are easily identified.²⁵
- If handwritten, entries should be clear and legibly written in blue or black ink. Electronic charting offers numerous advantages, such as a reduction of duplication and repetition and an increase in care management tools, including alerts or reminders.
- Documentation should be accurate for ongoing referencing.
- Entries should be appropriate and pertinent. Personal opinions and criticisms should be avoided.
- Notes should be in chronological order, leaving no blank spaces.
- Entries should be made as soon as possible after the encounter.
- All entries should be dated and signed with full name and credentials.

There are a variety of documentation styles. Each institution defines a charting format for its facility. Many of the formats are similar in that they present objective data, provide an assessment, and end with a plan of action and expected outcomes. The **SOAP** (subjective, objective, assessment, and plan) format was almost universally used in medical facilities. Although this is no longer the case, it is still commonly used in a number of clinical settings, so we will review the process in this section. Also, the SOAP method is appropriate to use in a lifestyle management program and can be integrated with the Academy of Nutrition and Dietetics Nutrition Care Process.

SOAP Format

Because of the comprehensive nature of this format, new practitioners find practice with this method particularly useful for developing charting skills. The case study addendum in this chapter contains three samples of SOAP notes for each of the three levels of motivation case studies

Exhibit 5.3 Client Concerns and Strengths Log

1. List all concerns identified by you or expressed by your client.

<i>too little time</i> <i>children responsibilities—NC</i> <i>too little exercise</i> <i>big family dinners every Sunday</i> <i>eating while watching television</i> <i>no planning for meals</i>	<i>nonsupportive husband—NC</i> <i>low intake of fiber, fruits, and vegetables</i> <i>little dairy, does not like, low intake of calcium</i> <i>frequent consumption of fast-food, constipation</i> <i>little knowledge about the role of nutrition in treating hypertension</i>
--	--

2. Write “NC” next to all concerns over which you (or your client) have no control.

3. Categorize the remaining concerns that you and your client can address to set realistic goals.

NUTRITIONAL*	BEHAVIORAL	EXERCISE
Low intake of fiber, fruits, and vegetables Frequent consumption of fast food Little dairy, low intake of calcium	No planning for meals Eating while watching television Too little time Big family dinners every Sunday Frequent trips to fast-food establishments	Too little exercise

*Address food pattern, frequency, and variety concerns, if appropriate.

4. List strengths and skills that could be used to set goals that are applicable to the previously listed concerns (for example, organizational skills, knowledge of calories and food groups, cooking skills, regular activity).

- *has an exercise bike; enjoyed it at one time*
- *a walking club in client's church*
- *tasted soy milk once; liked it*
- *enjoys oatmeal, whole-grain crackers*
- *enjoys apples, dried apricots, cherries, carrot and celery sticks*
- *good organizational skills*
- *cooking and good preparation knowledge*
- *good support system—Mom*
- *has taken children to high school track to play while client ran; children enjoyed themselves*
- *her mother has made vegetable platters for the family dinners; would probably do so more frequently if she requested*
- *shredded carrots in canned spaghetti sauce once; children didn't seem to mind*

5. Categorize the strengths and skills in the following chart:

NUTRITIONAL	BEHAVIORAL	EXERCISE
Soy milk Oatmeal, whole-grain crackers Apples, dried apricots, cherries Shredded carrots in spaghetti sauce	Mother makes vegetable platters	Exercise bike High school track Walking club available

6. What strengths and skills can be used to address the concerns? List them in the following chart.

STRENGTHS AND SKILLS	CONCERNS	POSSIBLE INTERVENTION STRATEGIES
Likes oatmeal, whole-grain crackers Likes apples, dried apricots, cherries Likes carrots and celery sticks Interest in cooking Shredded carrots in spaghetti sauce Supportive mother Good organizational skills	Too little fiber Low fruit intake Low vegetable intake Limited variety High sodium intake No planning for meals	Prepare oatmeal with cut-up apples Take veggie packs to work for a snack Ask Mom to put vegetables in soup Heart-healthy cooking classes with Mom Cooking demonstrations Include mother in next counseling session Plan week's menus on one-hour break

CASE STUDY 5.1 Nancy: Documentation at Three Levels of Motivation

The following contains a follow-up of the three scenarios of Nancy at different motivational levels in Chapter 4's case study. Included here are examples of SOAP notes for each of the scenarios. An example of using the **ADIME** format is found later in the chapter.

LEVEL 1—NOT MOTIVATED, NOT READY

- S** Doctor wants me to lose weight, don't want to; husband likes me with "meat on my bones"; too many personal problems to worry about dieting.
- O** 5'4", 174#, BMI 30, 34# overweight
- A** Client referred by physician for diet interventions for weight loss to reduce hypertension. She expresses no interest in learning about diet options, as she feels overwhelmed by personal problems. Her feelings were acknowledged, and intervention was limited to provision of literature.
- P** Rx: Provision of business card for future referral; Provision of literature on diet and hypertension
Goal: Increased awareness of the role of diet and hypertension; Referral in next three months for further counseling

LEVEL 2—UNSURE, LOW CONFIDENCE

- S** Doctor wants me to lose weight, don't want to; husband likes me with "meat on my bones"; too many personal problems to worry about dieting.
- O** 5'4", 174#, BMI 30, 34# overweight, hypertension
- A** Referred by physician for diet interventions for weight loss secondary to hypertension. Her ambivalence to commit to a counseling program due to stress and personal responsibilities was acknowledged. She exhibits several lifestyle concerns that negatively impact her health. Motivation level 6 on a scale of 1–10. Discussion of the role of diet and lifestyle changes was well received. Focusing on positive actions, involvement in realistic goal setting, and stressing the relationship of her health to meeting her family responsibilities are expected to increase her degree of readiness.
- P** Rx: Client education 1. Diet and hypertension
 2. DASH Food Plan
 3. Seeking a support system—work and home

Will follow up with a telephone call or text message in one week.

Goal: 1. Eat a banana or orange daily at work for a snack.

LEVEL 3—MOTIVATED, CONFIDENT, READY

- S** Doctor wants me to lose weight; husband likes me with "meat on my bones"; never really thought of losing weight to help blood pressure; willing to try.
- O** 5'4", 174#, BMI 30, 34# overweight, hypertension
- A** Referred by physician for diet interventions for weight loss secondary to hypertension. Assessment forms indicate that she has various lifestyle concerns that are influencing her health. She is motivated by her need to remain healthy to meet her family responsibilities as well as the desire to prevent long-term complications. Empowering her to set realistic and achievable goals for realistic lifestyle changes should further motivate her.
- P** Rx: Client education 1. Diet and hypertension educational materials
 2. DASH Food Plan and role of balanced diet
 3. Seeking a support system—work and home
 4. Food journaling for increased awareness of intake

Will follow up with a telephone call or text message in one week.

(continued)

CASE STUDY 5.1 Nancy: Documentation at Three Levels of Motivation (continued)

- Goals: 1. Fruit and vegetable intake of three servings per day for one week.
- Eat a banana or orange daily at work for a snack.
 - Use prepackaged cut-up veggies as snack at work.
 - One serving of vegetables at dinner.
 - Homemade soup with vegetables and a 4-ounce glass of grape juice at 3 p.m.
2. Increase awareness of food intake and aim for dietary variety.

presented in Chapter 4. See Case Study 5.1. Each segment of the SOAP format contains the following components:

S (Subjective)

- Information relayed to you from the client or the family.
- Citations do not need to be in complete sentences. Because the notes are under S, the assumption is that the information came from the client and there is no need to begin a statement with “Client says.”
- Entries may include information about physical activity; weight patterns; appetite changes; socio-economic conditions; work schedule; cultural information; significant nutritional history, such as usual eating pattern, cooking, and dining out.

O (Objective)

- Information generally comes from charts and laboratory reports and includes factual and scientific information that can be proven.
- Citations do not need to be in complete sentences.
- Examples of possible information include age, gender, diagnosis, nutritionally pertinent medications, anthropometrics, laboratory data, clinical data (nausea, diarrhea), height, weight, healthy body weight, changes in weight, diet order, and estimation of nutritional needs.

A (Assessment)

- This is your interpretation of the client’s status based on subjective and objective information, including nutrition diagnosis.
- Information should be written in complete sentences as a paragraph.
- The following can be the format for this entry:
 - ☐ Begin with a statement summarizing the client’s nutritional status and concerns.
 - ☐ Reflect on subjective and objective data and their impact on concerns, including evaluation of nutritional history, possible problems and difficulties with self-management, and the effect of medications on nutritional status.

- ☐ Provide possible approaches and interventions.
- ☐ Assess degree of readiness, comprehension of information provided, and previous goal achievement.

P (Plan)

- Notations are generally short, concise statements written in complete sentences that can include the following:
 - ☐ Long-term goals and specific, measurable short-term goals
 - ☐ Need for additional diagnostic data—assessments, lab work, consultations
 - ☐ Therapeutic plans—changes in nutrition care plan, diet prescription, supplement recommendations
 - ☐ Educational plans to address dietary issues

Adime Format

The **ADIME** format facilitates the Academy of Nutrition and Dietetics Nutrition Care Process (NCP) Model as shown in Figure 5.9. Practitioners using the NCP Model are not required to use this format because components of the model can be integrated with established charting requirements. A review of the NCP follows and the ADIME documentation format will be reviewed in the following discussion. An example of ADIME documentation can be found in the Nancy case study in this chapter (Case Study 5.2, 5.3, 5.4, and 5.5).

5.7 Nutrition Care Process

The **Nutrition Care Process (NCP)** was developed by the Academy of Nutrition and Dietetics in 2002 to provide a standardized framework using **evidence-based guidelines** for nutrition interventions. The model as illustrated in Figure 5.9 is intended to illustrate the dynamic nature of the dietitian’s relationship with the factors that influence how clients receive nutrition services, unique attributes of the food and nutrition professional, the four steps of the NCP, and a collaborative partnership with

The Nutrition Care Process Model

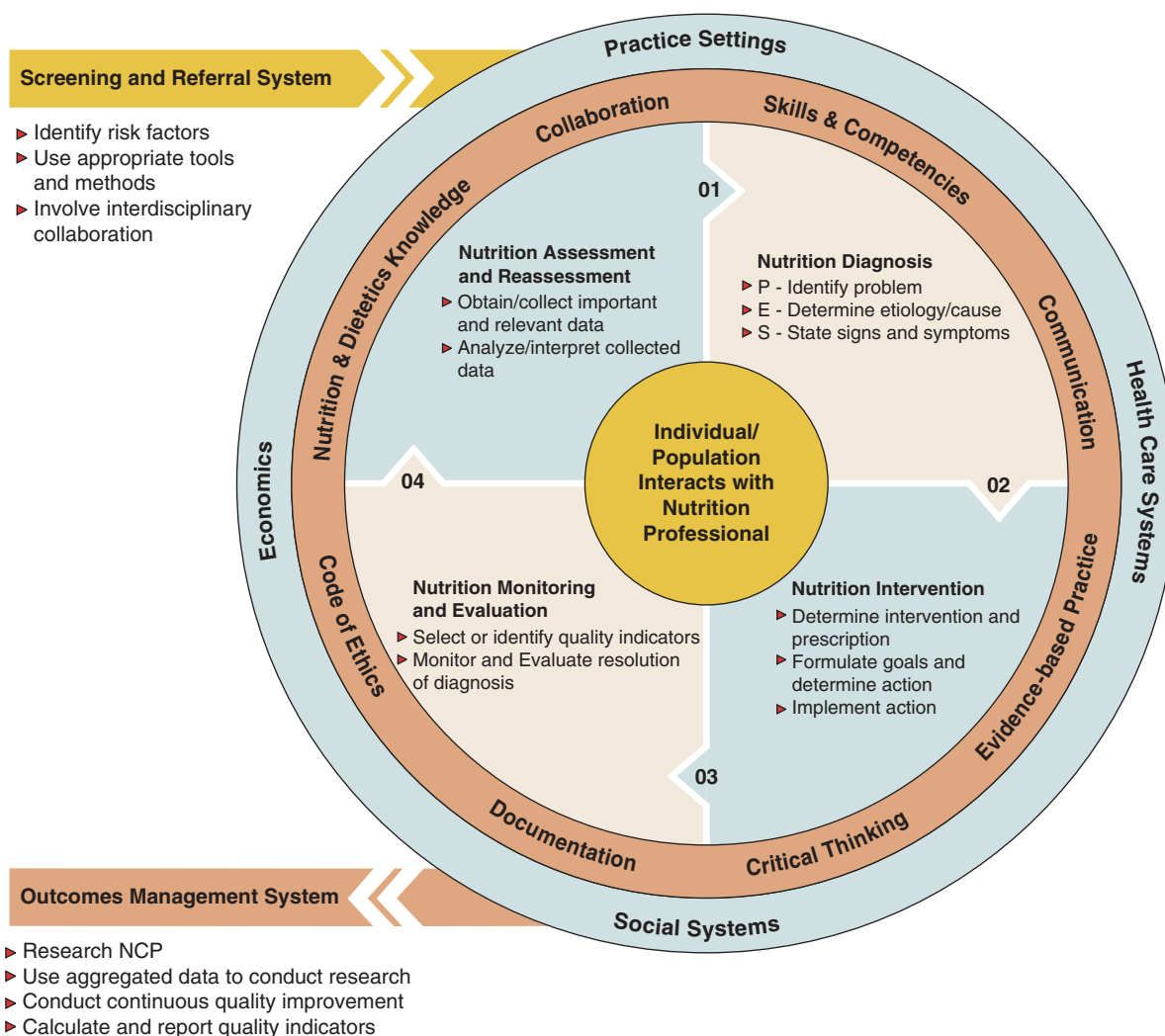


Figure 5.9 Nutrition Care Process and Model Diagram

Source: Reprinted from the *Journal of the Academy of Nutrition and Dietetics* 108:1113–17. Writing Group of the Nutrition Care Process/Standardized Language Committee. Nutrition care process and model part I: the 2008 update. © 2008, with permission from Elsevier.

clients. Emphasis is placed on providing a reliable and systematic process to deliver an intervention to consistently produce positive outcomes. Dietitians are expected to follow the framework and use critical thinking skills to provide individualized care, not necessarily the same care, for a client or target group.²⁶ The NCP has been evolving to meet the needs of Registered Dietitians (RDs) so dietitians need to continuously keep abreast of new developments. The following defines the objectives of the NCP:²⁷

- To reduce variation in documentation, which will improve consistency and quality of individualized care
- To provide consistent structure and framework for delivery of nutrition care

- To provide common language for practice, legislation, and reimbursement
- To generate reliable outcomes
- To focus on evidence-based practice
- To partner with electronic medical records

The NCP begins with a referral and assumes a problem has been previously suspected or identified. Because a number of health care practitioners may conduct a screening, the model does not assume that a dietitian conducted the screening process, so screening is outside the circle in Figure 5.9. The NCP consists of four inter-related steps with the acronym ADIME: Assessment, Diagnosis, Intervention, and Monitoring and Evaluation.

The framework was designed to meet the needs of all dietitians providing direct services to clients or groups, regardless of their work setting. The relationship among the domains is illustrated in Figure 5.9.

Standardized Language

An important component of the NCP is standardized nutrition terminology. Many health professionals, including physicians, nurses, and physical therapists, use standardized terminology, but before the development of the NCP, none existed for nutrition care. This hampered communication with other health care professionals and even among nutrition professionals. For example, dietitians may have charted “poor nutritional status,” “low energy intake,” “nutritional imbalance,” or “provide nutrition education.” These are vague terms that have multiple meanings. The Academy of Nutrition and Dietetics *Nutrition Care Process Terminology* has three sets of standardized terminology addressing the following: Nutrition Diagnosis, Nutrition Intervention, and terms for Nutrition Assessment and Monitoring and Evaluation are combined. See Figure 5.10. Each term has a unique definition that clearly indicates when the term should be used. As of 2018 about 1,500 terms have been defined.⁷ Although there

is an abridged hard-copy book available, the electronic version keeps pace with the latest additions to the manual.

Step 1: Nutrition Assessment

The nutrition assessment, as described by the NCP, follows the process previously explained in this chapter. See Table 5.3 for a description of the five domains of the NCP assessment. There are two major components of the NCP assessment: (1) collection of timely and appropriate data and (2) analysis and interpretation of the collected data, using relevant norms and standards. Assessments need to be done at the beginning of an intervention, throughout the nutrition care intervention to check advancement of goals, and at the end to evaluate outcomes. See Exhibit 5.4 for ADIME guidelines regarding assessment documentation. See the assessment component of the Nancy case study (Case Study 5.2) in this chapter for an example of ADIME documentation of nutrition assessment.

Critical Thinking During the Nutrition Assessment Process:⁷

- Determine appropriate data to collect
- Determine the need for additional data

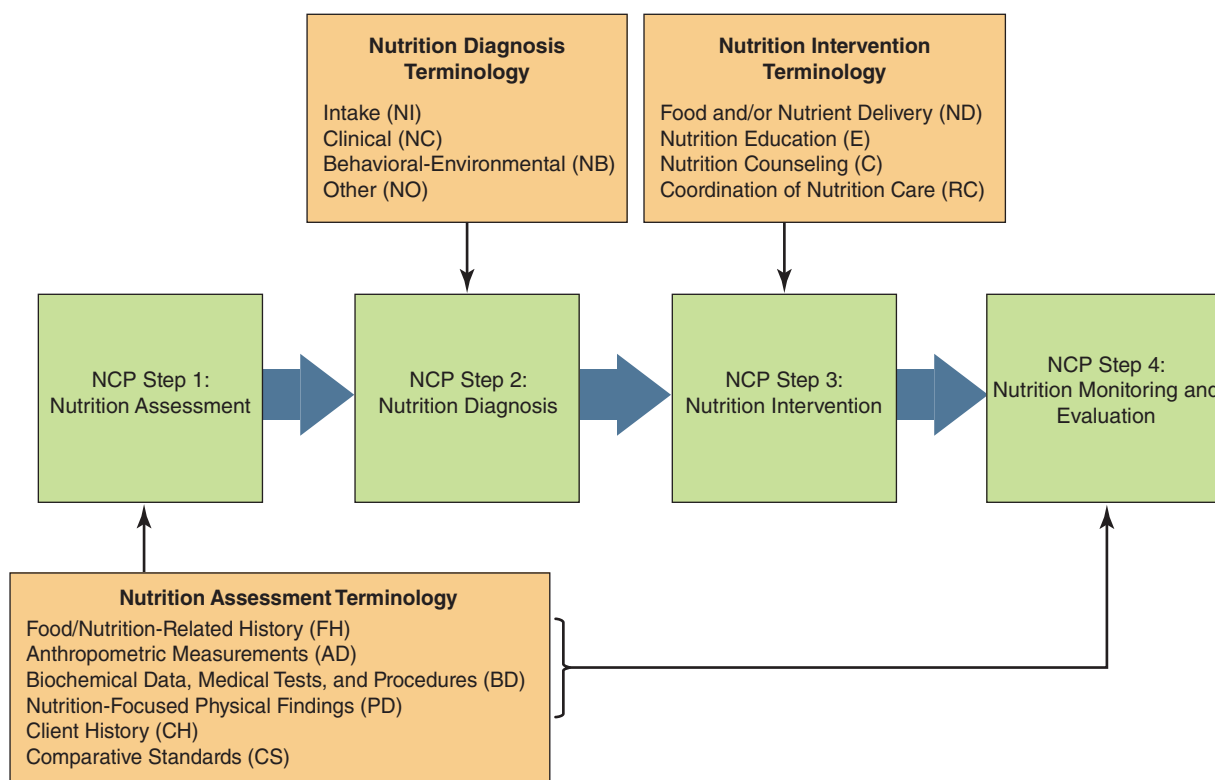


Figure 5.10 Overview of the Nutrition Care Process Domains and Standardized Language

Source: From Nelms, Sucher, *Nutrition Therapy and Pathophysiology*, 4th ed. © 2020, Cengage Learning, Inc. Reproduced by permission. www.cengage.com/permissions.

Exhibit 5.4 ADIME Documentation–Assessment (A) Guidelines

- Review the five nutrition assessment domains to guide the assessment documentation.
- Record date and time.
- Select data pertinent to clinical decision-making and provide comparisons to standards, such as estimated nutrient intake and Dietary Reference Intakes. Standards could be from national, institutional, or regulatory agencies. Additional charting topics may include client perceptions, motivation to change, level of understanding, food-related behaviors, cultural needs, and lab values.
- Reason for discharge or discontinuation, if appropriate. Note that a dietitian may have conducted an assessment based on a referral and determined that there was not a nutrition problem that required an intervention.

- Select assessment tools and procedures that match the situation
- Apply assessment tools in valid and reliable ways
- Differentiate relevant from irrelevant data
- Distinguish important from unimportant data
- Validate the data

Step 2: Nutrition Diagnosis

The purpose of the nutrition diagnosis is to “identify and describe a specific problem that can be resolved or improved through treatment and nutrition intervention by a dietetics practitioner.”⁷ For example, the nutrition diagnosis (excessive sodium intake) differs from a medical diagnosis (hypertension).

Procedure for Defining a Diagnosis By using the data collected during the assessment procedure, you are ready to define a nutrition diagnosis using standardized terminology found in the Academy of Nutrition and Dietetics, *Nutrition Care Process Terminology (NCPT) Reference Manual*. Frequently more than one problem exists and the dietitian needs to critically analyze which one or two are most likely to improve with a nutrition intervention.

Nutrition Diagnosis Domains (Categories) There are more than 100 nutrition diagnoses available

for dietitians to choose from, and they are grouped into three domains: intake, clinical, and behavioral-environmental. The electronic NCP provides a reference sheet for each nutrition diagnosis that includes its definition, possible etiology (cause), and common signs or symptoms identified in the nutrition assessment step. The intake terminology often includes the definers “inadequate,” “excessive,” or “inappropriate” to describe an altered intake of a particular nutrient or substance. The clinical terminology relates to physical or medical conditions such as swallowing, chewing, digestion, absorption, or appropriate weight. The behavioral-environmental categories include various cognition designations and environmental factors. If you are deciding whether the intake domain or one of the other categories is the problem, the intake domain should be chosen because that domain is more closely aligned with nutrition professionals’ expertise. See Table 5.10 for domain descriptions and examples of diagnosis terminology.

Writing a Nutrition Diagnosis Statement Similar to a nursing diagnosis, a structured sentence, called the PES Statement, is used to write the NCP diagnosis. The letters represent the three components of the statement. See

CASE STUDY 5.2 Nancy: ADIME Documentation–Assessment

The following contains ADIME documentation of Chapter 4’s case study.

A (Assessment): **Food intake** DASH serving sizes 8 grains, 1–2 vegetables, 1 fruit, 0 dairy, high-fat meats 10, 0 nut, seeds, legumes, 4 sweets each day. **Mineral and element intake** 3,600 mg sodium per day. **Energy intake** ~3,200 calories. **Total fat intake** ~142 grams/day of total fat, about 70 grams of saturated fat. **Carbohydrate intake** 20% of calories from sugar or other concentrated sweets. **Beliefs and attitudes** Diet readiness test indicated client is in preparation stage. She is concerned about her family history of diabetes and high blood pressure. **Body composition** Ht. 5’4”, weight 174#, BMI 30. **Recommended body mass index** healthy BMI 19–24, weight range 110–140#, Client is 34# above the upper limit for her healthy BMI range.

Note: In this example of ADIME assessment documentation, food intake, mineral and element intake, energy intake, fat intake, carbohydrate intake, beliefs and attitudes, and body composition are standardized terms defined in the *Nutrition Care Process Terminology Reference Manual*.

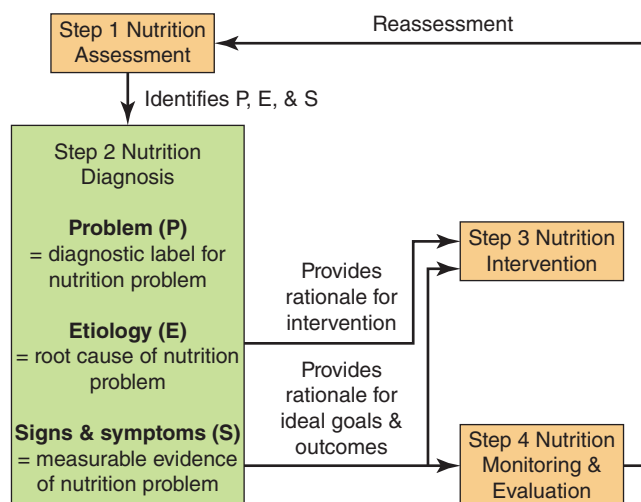
Table 5.10 NCP Diagnosis Domains, Classes, and Examples

Domain and Description	Selected Classes	Examples of Nutrition Diagnosis Terminology (Diagnostic Label)
Intake Problems related to excess or inadequate food or nutrient intake compared to actual or estimated needs.	Energy balance Fluid intake Bioactive substances Nutrient Fat and cholesterol Carbohydrate and fiber	Excessive energy intake Inadequate fluid intake Excessive alcohol intake Inadequate protein-energy intake Excessive fat intake Inadequate fiber intake
Clinical Nutritional problems that relate to medical or physical conditions.	Functional Biochemical Weight	Swallowing difficulty Food-medication interaction Overweight and obesity
Behavioral and Environmental Nutritional problems that relate to knowledge, attitudes, beliefs, physical environment, access to food, or food safety.	Knowledge and beliefs Physical activity and function Food safety and access	Undesirable food choices Excessive physical activity Limited access to food

Source: *Abridged Nutrition Care Process Terminology (NCPT) Reference Manual*. 2017 ed. Chicago: Academy of Nutrition and Dietetics, 2018.

Figure 5.11 for a representation of how Step 2, Nutrition Diagnosis, relates to the rest of the NCP.

- **P stands for problem** indicating the nutrition diagnosis label. What is the problem? The terminology used to describe the problem must come from one of the standardized terms used to describe a diagnosis as indicated in the examples column of Table 5.10. The diagnosis should provide guidance for formulating nutrition interventions, allow collection of data to monitor and evaluate change, and to identify realistic

**Figure 5.11** Relationship of the Nutrition Diagnosis to the Other Steps of the NCP

Source: Lacey, K., and Pritchett, E. Nutrition Care Process and Model: ADA adopts road map to quality care and outcomes management. *J Amer Diet Assoc.* 2003; 103:1061–72. ©2003, with permission from Elsevier.

and measurable outcomes. When choosing a problem to address, the dietitian should select one in which there is reason to believe that a nutrition intervention can resolve or improve the nutrition diagnosis.

- **E refers to etiology** reflecting the root cause or contributing risk factors. Why does the problem exist? Those factors can include pathophysiological, psychosocial, situational, developmental, cultural, and/or environmental problems.²⁷ See Table 5.11 for a list of etiology categories. The etiology is linked to the diagnosis label by the words *related to*.
- **S indicates the signs or symptoms**, defining characteristics used to determine that the client has the nutrition diagnosis specified. They can be measurable objective data, such as decreased oral intake, consuming < 25% of meals; or obesity, BMI > 30, or subjective (but quantifiable) symptoms including observations and statements from a client or caregiver (number of bowel movements). These will be the basis for setting ideal and measurable goals in Step 3 and providing outcome measures in Step 4.
- The format for the PES Statement is Nutrition Problem Label (using NCP nutrition diagnosis terminology) related to Etiology (root cause of the problem) as evidenced by Signs and Symptoms (observable indicators that the problem exists). Simply written: “Nutrition problem label related to ___ as evidenced by ___.” See Table 5.12 for examples of nutrition diagnosis statements. See the diagnosis component of the Nancy case study (Case Study 5.3) in this chapter for an example of ADIME documentation of nutrition diagnosis with a PES statement.

Table 5.11 Etiology Categories Used for PES Statements

Category	Cause or Contributing Risk Factor of Problem
Beliefs—Attitudes	Confidence and feelings related to a nutrition-related belief or observation
Cultural	Customs, values, social norms, and beliefs of defining social groups including, but not limited to, religion, politics, and social class
Knowledge	Understanding of nutrition information and guidelines
Physical Function	Physical ability, including cognitive, to engage in activities
Physiological—Metabolic	Medical or health issues impacting nutritional status
Psychological	Diagnosed or suspected mental health issues
Social—Personal	Social and personal factors related to food habits and nutritional status
Treatment	Medical or surgical treatments needed for health management and care
Access	Factors affecting availability of safe and healthful food and water
Behavior	Actions impacting nutritional status and goal attainment

Source: Academy of Nutrition and Dietetics. *International Dietetics & Nutrition Terminology (IDNT) Reference Manual Standardized Language for the Nutrition Care Process*. 4th ed. Chicago: Academy of Nutrition and Dietetics, 2013.

Table 5.12 Examples of Nutrition Diagnosis (PES) Statements

Client	Problem (P) Diagnostic Label	Etiology (E) “related to”	Signs and Symptoms (S) “as evidenced by”
45-year-old male	Inappropriate intake of fats	Frequent consumption of fast-food meals	Serum cholesterol level of 250 mg/dL and 10 meals per week of fried chicken and biscuits or hamburgers
20-year-old WIC client	Breastfeeding difficulty	Poor sucking ability	Poor infant weight gain and fewer than six wet diapers in 24 hours
35-year-old female	Inadequate fiber intake	Inappropriate food preparation practices, for example, reliance on over-processed foods	Estimated fiber intake of 15 g/day

Source: From Boyle, *Community Nutrition in Action*. 5th ed. © 2010 Cengage Learning, Inc. Reproduced by permission. www.cengage.com/permissions.

Self-Evaluation of PES Statements

You want your intervention to address the most urgent problem and your PES statement to clearly define your intent. Use the following criteria and questions to help evaluate a well-written PES statement:

Problem (P): Can the practitioner resolve or improve the nutrition diagnosis? Consider intake as the preferred domain when in doubt about domain choice.

Etiology (E): Is the etiology truly the “root” cause? Can the intervention eliminate the problem by addressing the etiology? If not, can the intervention alleviate the signs and symptoms?

Signs and Symptoms (S): Will measuring the signs and symptoms indicate if the problem is resolved?

Are signs and symptoms specific enough to monitor and document?

PES Overall: Does the nutrition assessment data support the diagnosis, etiology, and signs and symptoms?

Step 3: Intervention

The purpose of an intervention is to “resolve or improve the identified nutrition diagnosis(es) or nutrition problem(s) by planning and implementing appropriate interventions.”⁷⁷ The selection of an intervention is based on the nutrition assessment and needs to be directed to the root cause (etiology) with the objective of relieving signs and symptoms of the diagnosis. If the intervention cannot be directed at the etiology (for example, depression) then the intervention should focus on reducing

CASE STUDY 5.3 Nancy: ADIME Documentation—Diagnosis With PES Statement

The following contains ADIME documentation of Chapter 4's case study.

D (diagnosis): Excessive oral food and beverage intake related to knowledge deficit concerning appropriate food choices and meal planning as evidenced by BMI of 30 and inadequate intake of DASH food groups: 1–2 vegetables, 1 fruit, 0 dairy, high-fat meats 10, 0 nut, seeds, legumes, 4 sweets each day.

Note: In the above example of ADIME documentation of diagnosis, “excessive oral food and beverage intake” is defined, standardized terminology and “knowledge” is an etiology category in the *Nutrition Care Process Terminology (NCPT) Reference Manual*.

signs and symptoms. Planning and implementation are two components of the intervention process and are outlined in the sections that follow.⁷

Planning the Nutrition Intervention

- Prioritize the nutrition diagnoses.
- Consult the Academy of Nutrition and Dietetics' Evidence-Based Nutrition-Practice Guidelines and other appropriate practice guides.
- Determine patient-/client-focused or population-level expected outcomes for each nutrition diagnosis.
- Confer with patient/client/caregivers or others.
- Define a nutrition intervention plan and related strategies.
- Define time and frequency of care.
- Identify resources needed.

Implementation of the Intervention

- Communicate the nutrition care plan to all relevant individuals.
- Carry out the nutrition intervention.

Nutrition Intervention Domains There are five domains of nutrition intervention strategies that address altering nutritional intake, nutrition-related knowledge or behavior, environmental conditions, or access to supportive care and services. You can choose more than one strategy. The following list contains a general description of each domain.

- **Food and Nutrient Delivery.** An individualized approach for providing food and nutrients including meals, snacks, food vouchers, enteral and parenteral feeding, and supplements.
- **Nutrition Education.** A formal process to instruct or train patients/clients in a skill or to impart knowledge to help patients/clients voluntarily manage or modify food, nutrition, and physical activity choices and behavior to maintain or improve health.⁷
- **Nutrition Counseling.** A supportive process, characterized by a collaborative counselor-patient/client relationship to establish food, nutrition and physical activity priorities, goals, and individualized action

plans that acknowledge and foster responsibility for self-care to treat an existing condition and promote health. If you choose nutrition counseling to implement an intervention, you must select a theoretical approach and at least one counseling strategy.

- **Coordination of Nutrition Care.** Entails “consultation with, referral to, or coordination of nutrition care with other health care providers, institutions, or agencies that can assist in treating or managing nutrition-related problems.”⁷ This domain includes discharge planning.
- **Population Based Nutrition Action.** Interventions in this domain are designed to improve the nutritional well-being of a population.

Write a Nutrition Prescription Providing a nutrition prescription is an essential component of the nutrition intervention. It concisely states the recommended dietary intake of energy and/or nutrients based on reference standards, dietary guidelines, nutrition diagnosis, and health condition of the client. See the intervention component of the Nancy case study (Case Study 5.4) in this chapter for an example of ADIME documentation of nutrition intervention with a nutrition prescription. Goal setting is also an essential component of Step 3, Nutrition Care Process, Nutrition Intervention. The goals must be clear, measurable, achievable, and time-defined. Without well-defined goals, assessing the impact of the intervention is not possible. Although there can be long-term goals for the course of the nutrition intervention, there should be short-term goals identified to allow assessment for the next interaction (visit).

5.8 Step 4: Monitoring and Evaluation (M & E)

In this step, a practitioner evaluates the effectiveness of a nutrition intervention by engaging in monitoring, measuring, and evaluating changes in nutrition care indicators. You want to determine how much progress is being made toward goals or anticipated outcomes. See the monitoring and evaluation component of the Nancy case study (Case Study 5.5) in this chapter for an example of ADIME documentation of monitoring and evaluation.

CASE STUDY 5.4 Nancy: ADIME Documentation–Intervention

The following contains ADIME documentation of Chapter 4's case study.

I (Intervention): nutrition prescription DASH food group servings for 2,000 calorie intake: grains, 6–8; vegetables 4–5; fruits 4–5; dairy 2–3; lean meats 6; nuts, seeds, legumes, 4–5/wk; fats and oils, 2–3; sweets ≤ 5/wk.

Nutrition Counseling Based on the Transtheoretical Model and Motivational Interviewing included exploring ambivalence to change and goal setting to encourage client to move from preparation to action stage. Client described reasons for desiring changes in food intake; outlined support and barriers for change; pros and cons of current eating habits; and requested specific guidance on diet. A small achievable goal was set jointly with the client to take a fruit to work each day and a long-term goal to follow the DASH food group plan most days of the week. The client will be seen twice a month for four months. Social Support: Client's mother is willing to provide social support. She is scheduled to come with the client to the next counseling session.

Note: In this example of ADIME documentation, "nutrition counseling," "Transtheoretical Model," "goal setting," and "social support" are standardized terms defined in the *Nutrition Care Process Terminology Reference Manual*.

- **Nutrition monitoring** refers to periodic reviews and measurement of the client's nutritional status to determine if the intervention is or is not improving the patient's/client's behavior or status. Note that the monitoring does not need to be limited to the defined PES signs and symptoms but can include any positive or negative factors that may have altered due to the nutrition intervention.
- **Measuring outcomes** includes collecting data on nutrition outcome indicators. The measures should interface with electronic charting and coding.
- **Nutrition evaluation** refers to a systematic comparison of current data collection and measurements against criteria, which could be the client's previous nutritional status, intervention goals, or a standard. A second component of the evaluation includes an assessment of the overall impact of the total nutrition intervention on patient outcomes.

Domains used in this step to identify changes in nutrition care indicators come from the same domains as those specified in the NCP assessment step, except for the Client History Domain. Data collected from Client History in the initial assessment would not be expected to change or be influenced by an intervention, such as gender, age, religion, or occupation. Documenting judgments about whether outcomes were achieved is an essential component of the NCP. This communicates progress toward achieving established goals and the effectiveness of the nutrition professional intervention to other health care practitioners.²⁸ Documentation of monitoring and evaluation activities could include any of the following: nutrition intervention indicator measurements and method for obtaining them, criteria used to evaluate measurements, positive or negative factors affecting progress; and future plans for nutrition care, nutrition monitoring, and follow-up or discharge. All of these elements would not be

expected to be part of an initial encounter since the nutrition prescription and goals have just been established.

NCP Documentation and Charting

NCP can be incorporated into any facility charting guidelines or the ADIME format can be followed using the standardized language for assessment, diagnosis, and intervention. You or your facility will need to obtain electronic access to *Nutrition Care Process Terminology (NCPT) Reference Manual*. The Academy of Nutrition and Dietetics is committed to making the NCP an important standard in the profession. Standards of Education for accredited dietetic education programs require the NCP to be integrated into their curriculum, RD exam questions address the NCP, and the Academy of Nutrition and Dietetics is working to incorporate the NCP Model in **Joint Commission** evaluations and the use of NCP terminology in electronic medical records has been expanding both in the United States and internationally.²⁹ To become better acquainted with NCP, use the numerous resources on the Academy of Nutrition and Dietetics website.

Exercise 5.12 Interview a Dietitian Utilizing the NCP

Interview a dietitian using the NCP. Address the following in your journal:

1. Record the name and date of the interview.
2. How long has the interviewee been using the NCP?
3. What resources did the interviewee use to learn the NCP?
4. What are the most beneficial components of the NCP for the interviewee?
5. Are there components of the NCP, which are difficult for the interviewee to follow?
6. What advice does the interviewee have about using the NCP?

CASE STUDY 5.5 Nancy: ADIME Documentation—Monitoring and Evaluation

The following contains ADIME documentation of Chapter 4's case study.

M & E:

Beliefs and attitudes Criteria: Diet readiness to increase to the action stage. **Food intake** DASH food group servings for 2000 calorie intake: vegetables 4–5; fruits 4–5 in past month. **Social support** Client's mother will attend a counseling session with the client within 30 days. Will monitor readiness to change with an assessment graphic and food group intake with a 3-day diet record at next encounter.

Note: In this example of ADIME documentation “beliefs and attitudes,” “food intake,” and “social support” are defined, standardized terms in the *Nutrition Care Process Terminology Reference Manual*.

KEY TERMS

ADIME: four-step process of the Nutrition Care Process; assessment, diagnosis, intervention, and monitoring and evaluation.

Android Fat Distribution: waist and upper abdominal fat accumulation; apple shape.

Body Mass Index (BMI): preferred weight-for-height standard; determinant of health risk; predictor of mortality.

Dietary Approaches to Stop Hypertension (DASH): an eating plan focusing on whole foods emphasizing fruits, vegetables, nuts, and reduced sodium.

Dietary Assessment: evaluation of nutrient intake and food patterns.

Dietary Reference Intakes (DRI): four sets of nutrient recommendations for the United States and Canada—Estimated Average Requirements, Recommended Dietary Allowances, Adequate Intakes, and Tolerable Upper Intake Levels.

Evidence-Based Guidelines: based on the scientific method, the best available research evidence for interventions to produce effective outcomes.

Gynoid Fat Distribution: fat accumulation in hips and thighs; pear shape.

Joint Commission on Accreditation of Healthcare Organizations (JCAHO): a nonprofit organization that provides accreditation and ensures compliance with established minimum standards to subscriber hospitals and other health care organizations.

Nutritional Assessment: a comprehensive analysis of an individual's dietary evaluation; medical, medication, and psychosocial history; anthropometric data; biochemical data; and physical examination.

Nutrition Care Process: comprehensive model developed to standardize the process of nutrition care delivery.

Obesity: a body mass index of 30 to 30.9.

Overweight: a body mass index of 25 to 29.9.

SMART Goals: specific, measurable, achievable (under the client's control), rewarding (positive), and are time-based.

SOAP Format: a comprehensive documentation tool; subjective, objective, assessment, and plan.

Waist Circumference: a method to assess upper abdominal fat distribution.

REVIEW QUESTIONS

1. While engaging in the goal-setting process, what are three messages a counselor should convey to a client?
2. Define SMART goals.
3. Name the three steps involved in completing a dietary evaluation.
4. Describe client assessment questionnaires, food diaries, 24-hour recalls, diet history interviews, food frequencies, and usual diet analysis. Explain the advantages and disadvantages of each.
5. Explain the SOAP documentation method.
6. Identify and explain the four components of the NCP.
7. Fill in the blank. “Related to” and “as evidenced by” are connectors used in a ____ Statement.

ASSIGNMENT Nutritional Assessment

In this assignment, you will complete a nutritional assessment, give feedback regarding dietary evaluation, discuss broad general goals (if your volunteer wishes), and document the intervention using the ADIME method. Because the objective is for you to gain experience in performing common nutritional assessment procedures, you will be completing more tasks than would normally be done in one intervention. There should be no intention on your part to resolve difficulties. Volunteer

clients may find some benefit in clarifying their problems through discussions and feedback; however, the participants should not be led to believe that there will be a nutrition intervention. If the volunteer wishes to explore additional nutrition counseling, then a referral to an appropriate health care professional can be made, or the volunteer can be directed to the Academy of Nutrition and Dietetics website search service (<http://www.eatright.org/>) for help in finding a nutrition counselor. Only the involving phase, exploration-education phase, and the closing phase of the nutrition counseling motivational algorithm found in Chapter 4 will be addressed in this assignment. Ask a colleague, friend, or relative who is willing to have an assessment to be your volunteer client. Complete the following assessment forms and activities:

Part I. Nutritional Assessment of a Volunteer

Use the following interview guide/checklist to conduct the interview/assessment with your volunteer. Examples of possible counselor questions, statements, and responses are given in italics. Because the focus of this assignment is nutritional assessment, most relationship-building responses have been omitted from the checklist. You are encouraged to use these responses when appropriate. See Chapter 3 for a discussion of relationship-building responses.

Preparation

- ❑ Review the following procedures and guidelines:
 - The motivational nutrition counseling algorithm (Figure 4.2)
 - Protocol for obtaining consent in preparation for session 1 in Chapter 14 (Exhibit 14.1)
 - Protocol for a diet history interview (Exhibit 5.1, Chapter 5)
 - Waist measurement protocols (Table 5.8, Chapter 5)
- ❑ Give copies of the Client Assessment Questionnaire and Food Frequency Questionnaire (Lifestyle Management Forms 5.1 and 5.4 found in Appendix C) to your volunteer to complete before your meeting.
- ❑ Bring copies of the following forms found in Appendix C:
 - Lifestyle Management Form 4.1, Assessment Graphic
 - Lifestyle Management Form 5.1, in case your client does not bring
 - Lifestyle Management Form 5.3, 24-Hour Recall and Usual Diet Form

- Lifestyle Management Form 5.4, in case your client does not bring
- Lifestyle Management Form 5.5, Anthropometric Feedback Form
- Lifestyle Management Form 5.7, Student Nutrition Interview Agreement, duplicate copies

- ❑ Bring Body Mass Index Chart, Appendix B.
- ❑ Bring a tape measure and a calculator.
- ❑ Minimize distractions.
- ❑ Bring visuals to estimate portion size.

Involving phase

- ❑ Greeting
- ❑ Thank volunteer—*Thank you for participating in this interview.*
- ❑ Set agenda. Explain purpose of the interview—*This is a project I am required to do for my nutrition counseling class. The purpose of this interview is for me to work on my counseling skills, complete a nutritional assessment, give feedback to you regarding your food intake, and explore your interest in making dietary changes. I will be taking some physical measurements, and I can give you feedback regarding the standards for your age. These physical standards are a guide for desirable weight; however, other factors such as susceptibility to kidney stones or osteoporosis should be considered before embarking on a change in dietary behavior.*
- ❑ Review the consent form with your volunteer, follow the procedure for obtaining consent in Exhibit 14.1, Chapter 14. You and your volunteer should sign both a client copy and a clinic copy of the form. Give the client copy to your volunteer. The clinic copy should be handed in with this report.

Transition to Exploration phase

- ❑ Transition statement. *Do you have any questions before we begin the assessment procedure?*

Exploration-Education phase

- ❑ Ask your volunteer to describe himself or herself (age, cultural group, occupation, interests).
- ❑ Ask your client whether he or she has any nutritional concerns.
- ❑ Review the completed Client Assessment Questionnaire, Lifestyle Management Form 5.1—*Thank you for completing the Client Assessment Questionnaire. I am wondering, what came to your mind as you were filling out this form? What topics covered in this form do you think have particular importance for your food issues?*

Look Over the Form and Ask for Clarification Where Appropriate

- Health history: Inquire whether the client had any nutrition concerns related to health history responses—*I see you stated that you have a family history of heart disease and high cholesterol. Has this influenced your food selections in any way?*
- Drug history: If your volunteer is taking a medication, ask the purpose for taking it and if she or he is aware of any nutritional implications of the drug.
- Socioeconomic history: Comment on highlights of the responses of this section—*I see you frequently eat at fast-food restaurants. Is this just a habit, or is it something you really enjoy doing?*
- Diet history: Ask for clarification of any significant reporting—*You wrote that you don't eat fruits. Is there a particular reason?*
- ❑ Use a diet history interview (Exhibit 5.1)—*Can you take me through a typical day in your life so I can understand more fully what happens, and tell me where eating fits into the picture? Take me through this day from the beginning to the end. While your client is telling you his or her story, fill in the 24-Hour Recall and Usual Diet Form, Lifestyle Management Form 5.3.*
- ❑ Summarize.
- ❑ Review the completed Food Frequency Questionnaire, Lifestyle Management Form 5.4. Clarify portion sizes using food models, if needed—*Thank you for completing the Food Frequency Questionnaire. I am wondering, what came to your mind as you were filling out this form? Did you feel a need to clarify or expand on anything while you were completing this form?*
- ❑ Measure or use the data on the Client Assessment Questionnaire to determine your volunteer's height and weight.
- ❑ Measure your volunteer's waist circumference (Table 5.8, Chapter 5).
- ❑ Use the BMI chart in Appendix B to determine your volunteer's BMI.
- ❑ Complete the Anthropometric Feedback Form, Lifestyle Management Form 5.5.

Provide Feedback

- ❑ Review the 24-Hour Recall and Usual Diet Form and the Anthropometric Feedback Form, point by point, in a nonjudgmental manner with your client. Compare the standards to your volunteer's food intake or to his or her anthropometric findings—*As you can*

see, your usual vegetable intake is one cup a day, and the estimated desirable intake is 2 ½ cups a day. Your body mass index is 26, and the desirable number range is from 19 to 25. Continue in this vein until you have reviewed all the findings.

- ❑ Clarify when needed. Your client may ask about the BMI or other assessment parameters. Be sure you are familiar with the standards so that you can provide educated answers. Again, your answers should not indicate judgment. Avoid the word “you”—*Body mass index numbers are based on height and weight. Authorities have found that people who have a body mass index between 19 and 25 have a lower risk of developing high blood pressure, high blood cholesterol, diabetes, and coronary heart disease.*
- ❑ Ask your client his or her impression of the evaluation—*What do you think about this information?* Give your opinion if requested.
- ❑ If your client expresses interest in making a change, use the assessment graphic, Lifestyle Management Form 4.1 in Appendix C, to evaluate willingness to make a change.
- ❑ Summarize.

Closing phase

- ❑ Express appreciation—*Thank you very much for volunteering for this project.*

Part II. Report

Answer the following questions in a formal typed report or in your journal. Number and type each question and put the answers in complete sentences under the question.

1. Record the name of the person interviewed and location, time, and date of the meeting.
2. Describe the person you interviewed—age, cultural group, gender, occupation.
3. Write a narration of the experience. There should be four titled sections to the narration—preparation, opening phase, exploration-education phase, and closing phase. Summarize what occurred in each phase.
4. Complete a Client Concerns and Strengths Log, Lifestyle Management Form 5.6.
5. Chart your experience using the ADIME format.
6. Complete an Interview Assessment Form, Lifestyle Management Form 7.6. Do not fill out portion C of the checklist.
7. What did you learn from this experience?
8. Attach completed copies of Lifestyle Management Forms 5.1, 5.3, 5.4, 5.5, 5.6, 5.7, and 7.6.

ADDITIONAL RESOURCES

Cochrane Database of Systematic Reviews. www.cochrane.org/. Evidence-based reviews of health care interventions.

Evidence Analysis Library (EAL). www.eatright.org. Provides evidence summaries of major research findings on nutritional health and interventions.

National Guideline Clearinghouse (NGC). <http://www.guideline.gov/>. A public resource for evidence-based clinical practice guidelines.

USDA Food and Nutrition Information Center, Dietary Guidance. <http://fnic.nal.usda.gov/dietary-guidance>. Links to interactive assessment sites and professional resources.

Thomas PR (Ed.). *Weighing the Options—Criteria for Evaluating Weight-Management Programs*.

Washington, DC: National Academy Press, 1995. A useful assessment instrument to point out potential problems with motivation and attitudes toward weight loss diets and exercise, and a psychological assessment to determine the need for a psychological referral.

REFERENCES

- ¹The Story of Florence Chadwick, available at <https://ejaife.wordpress.com/2012/07/20/the-story-of-florence-chadwick/>. Accessed May 23, 2019.
- ²P. A. Dyson, A practical guide to delivering nutritional advice to people with diabetes. *Diabetes Ther.*, 2019; 10:367–374.
- ³E. Cunningham, How can I support my clients in setting realistic weight loss goals? *J Am Diet Assoc.*, 2014; 114:176.
- ⁴J. R. Liefers, H. Haresign, C. Mehling, et al., A retrospective analysis of real-world use of the eaTracker® My Goals website by adults from Ontario and Alberta, Canada. *BMC Public Health*, 2016; 16:978.
- ⁵S. M. Berg-Smith, V. J. Stevens, K. M. Brown, et al., Dietary Intervention Study in Children (DISC) Research Group. A brief motivational intervention to improve dietary adherence in adolescents. *Health Educ Res.*, 1999; 14: 101–112.
- ⁶S. Kasten, L. van Osch, S. M. Eggers, et al., From action planning and plan enactment to fruit consumption: moderated mediation effects. *BMC Public Health*, 2017; 17:832.
- ⁷Academy of Nutrition and Dietetics, *Abridged Nutrition Care Process Terminology (NCPT) Reference Manual*. 2017 ed. Chicago: Academy of Nutrition and Dietetics, 2018.
- ⁸D. C. Nieman, *Nutritional Assessment*, 7th ed. New York: McGraw Hill Education, 2019.
- ⁹National Cancer Institute, U.S. National Institutes of Health, Usual Dietary Intakes: NHANES Food Frequency Questionnaire (FFQ). Available at <http://appliedresearch.cancer.gov/diet/usualintakes/ffq.html>. Accessed May 23, 2019.
- ¹⁰S. R. Rolles, K. Pinna, and E. R. Whitney, *Understanding Normal and Clinical Nutrition*. 9th ed. Belmont, CA: Cengage, 2012.
- ¹¹S. B. Sugerman, B. Eissenstat, and U. Srinith. Dietary assessment for cardiovascular disease risk determination and treatment. In P. Kris-Etherton and J. H. Burns, eds., *Cardiovascular Nutrition*. Chicago: American Dietetic Association, 1998:39–71.
- ¹²C. A. Blanton, A. J. Moshfegh, D. J. Baer, et al., The USDA automated multiple-pass method accurately estimates group total energy and nutrient intake. *J Nutr.*, 2006; 136:2594–2599.
- ¹³J. M. Conway, L. A. Ingwersen, and A. J. Moshfegh, Accuracy of dietary recall using the USDA 5-step multiple pass method in men: An observational validation study. *J Am Diet Assoc.*, 2004; 104:595–603.
- ¹⁴P. G. Kittler, K. P. Sucher, and M. Nelms, *Food and Culture*. 7th ed. Boston, MA: Cengage, 2017.
- ¹⁵C. M. Cassidy, Walk a mile in my shoes: Culturally sensitive food-habit research. *Am J Clin Nutr.*, 1994; 5:S190–S197.
- ¹⁶E. Whitney and W. Roles, *Understanding Nutrition*. 14th ed. Stamford, CT: Cengage, 2016.
- ¹⁷C. M. Hales, M. D. Carroll, and C. D. Fryar, *Prevalence of Obesity Among Adults and Youth: United States, 2015–2016* NCHS Data Brief 288; 2017. Available at <https://www.cdc.gov/nchs/data/databriefs/db288.pdf>. Accessed on May 24, 2019.
- ¹⁸US Department of Health and Human Services, Health Statistics. National Health and Nutrition Examination Survey (NHANES), 2013–2014. Available at <https://www.niddk.nih.gov/health-information/health-statistics/overweight-obesity>. Accessed on May 24, 2019.
- ¹⁹National Heart, Lung, and Blood Institute, *Aim for a Healthy Weight*. Available at https://www.nhlbi.nih.gov/health/educational/lose_wt/risk.htm. Accessed on May 24, 2019.
- ²⁰World Health Organization Expert Consultation, Appropriate body-mass index for Asian populations and its implications for policy and intervention strategies. *Lancet*, 2004; 363:157–163.
- ²¹J. E. Winter, R. J. MacInnis, N. Wattanapenpaiboon, et al., BMI and all-cause mortality in older adults: A meta-analysis. *Am J Clin Nutr.*, 2014; 99:875–890.
- ²²Obesity in Asia Collaboration, Waist circumference thresholds provide an accurate and widely applicable method for the discrimination of diabetes. *Diabetes Care*, 2007; 30:3116–3118.
- ²³S. Klein, D. B. Allison, S. B. Heymsfield, et al., Waist circumference and cardiometabolic risk: A consensus statement from Shaping America's Health, Association for Weight Management and Obesity Prevention, NAASO, the Obesity Society, American Society for Nutrition, American Diabetes Association. *Obesity*, 2007; 15:1061–1067.
- ²⁴Y. Wang, E. B. Rimm, M. J. Stampfer, et al. Comparison of abdominal adiposity and overall obesity in predicting risk of type 2 diabetes among men. *Am J Clin Nutr.*, 2005; 81:555–563.
- ²⁵C. J. Klein, J. B. Bosworth, and C. E. Wiles, Physicians prefer goal-oriented note format more than three to one over other outcome-focused documentation. *J Am Diet Assoc.*, 1997; 97:1306–1310.
- ²⁶K. Lacey and E. Pritchett, Nutrition care process and model: ADA adopts road map to quality care and outcomes management. *J Am Diet Assoc.*, 2003; 103:1061–1072.
- ²⁷Academy of Nutrition and Dietetics, *International Dietetics & Nutrition Terminology (IDNT) Reference Manual Standardized Language for the Nutrition Care Process*. 4th ed. Chicago: Academy of Nutrition and Dietetics, 2013.
- ²⁸N. Hakel-Smith, N. M. Lewis, and K. M. Eskridge, Orientation to Nutrition Care Process Standards improves nutrition care documentation by nutrition practitioners. *J Am Diet Assoc.*, 2005; 105:1582–1589.
- ²⁹K. Gibbons, Toward international best outcomes: The shared path of the nutrition care process, informatics, and research translation. *J Am Diet Assoc.*, 2017; 117:1727–1730.

6

Promoting Change to Facilitate Self-Management



Learning Objectives

- 6.1** Use common food management tools.
- 6.2** Identify various methods used to track food behavior.
- 6.3** Explain the ABCs of eating behavior.
- 6.4** Use common behavior change strategies.
- 6.5** Describe cognitive restructuring.
- 6.6** Identify three components of dysfunctional thinking.
- 6.7** Demonstrate basic cognitive restructuring counseling skills.
- 6.8** Identify effective ways to enhance education in a nutrition counseling session.
- 6.9** Discuss factors affecting dietary adherence.

Habit is habit, and not to be flung Out of the window by any man,
But coaxed downstairs a step at a time.

—MARK TWAIN

In this chapter, we will be investigating strategies that promote behavior change. First, there is an examination of food management tools commonly used in nutrition interventions. A discussion of tracking mechanisms proceeds because clients and counselors require a method for evaluating the effectiveness of the tools. Next, factors affecting our choice of behaviors, ABCs of behavior, and what constitutes a behavior chain are covered. To break the chain of events encompassing an undesirable behavior, counselors need to know a variety of behavioral and cognitive strategies. These are reviewed, as well as various professional issues to consider for producing positive-intervention outcomes.

circumstances change. For example, in the beginning of a dietary behavior change, avoiding exposure to foods or settings where temptations exist may be possible. However, if conditions change, clients should be ready with additional coping mechanisms. To explain the need to learn new strategies, the following script has been developed by Tsoh et al.:¹

Counselor: *Having more than one or two strategies is very important for you. What we are trying to do is expand your toolbox, so that if one tool does not work, you will have another. In many situations, you may require a combination of various tools. (p. 25)*

6.1 Strategies To Promote Change

Nutrition professionals need to become familiar with a variety of strategies for promoting behavior change to meet their clients' needs. Since counselees differ in their predisposition and ability to use certain strategies, you need to have a variety of intervention strategies available. Also, some clients may need additional options for tackling difficult situations, particularly as

6.2 Food Management Tools

A variety of tools are available to aid in the management of eating behavior (see Table 6.1). Both professional and commercial organizations have developed techniques to help design food plans and track eating behavior. Tools differ in their degree of structure and amount of work needed on the part of clients to use the approaches. Explore the advantages and disadvantages

Table 6.1 Comparison of Food Management Tools

Method	Advantages	Disadvantages
Meal Replacements	<ul style="list-style-type: none"> • Simplifies food choices • Reduces exposure to temptation • Portion size is clear 	<ul style="list-style-type: none"> • Some may not find taste acceptable • Can interfere with social plans
Detailed Menus and Meal Plans	<ul style="list-style-type: none"> • Clearly defined • Useful for someone who expresses a need for structure • Useful for someone who has complex dietary requirements who is not ready or not capable of following a food group plan 	<ul style="list-style-type: none"> • Does not allow for spontaneous events • Food items needed for the plan may not be available • May be difficult to design to complement a client's lifestyle
Food Lists for Weight Management	<ul style="list-style-type: none"> • Offers choices • Provides structure • Allows for variety • Meal pattern is individualized 	<ul style="list-style-type: none"> • May be too complex for some individuals
MyPlate	<ul style="list-style-type: none"> • Easy to understand • Flexible 	<ul style="list-style-type: none"> • Need to use the website to obtain a more detailed plan
DASH Food Plan	<ul style="list-style-type: none"> • Easy to understand • Flexible • Rich in various nutrients believed to benefit good health 	<ul style="list-style-type: none"> • Some of the foods may not be part of a client's usual intake (for example, nuts, beans, and seeds)
Goal Setting	<ul style="list-style-type: none"> • Easy to understand • Flexible • Designed to take into consideration a client's lifestyle 	<ul style="list-style-type: none"> • Approach may move too slowly when aggressive intervention is needed

of the methods with your clients to select an approach that fits their interests. To encourage clients to think about this topic, the Client Assessment Questionnaire (Lifestyle Management Form 5.1 in Appendix C) has questions asking clients about the amount of structure they desire in a nutrition intervention.

Meal Replacements

I do not want to spend the whole day thinking about and planning what to eat.

Meal replacements have been used effectively in nutrition interventions for weight loss and reduction of cardiovascular risk factors and were a component of the Look AHEAD (Action for Health in Diabetes) Clinical Trial to reduce weight in individuals with type 2 diabetes.²⁻⁴ Long-term weight and health benefits have been observed in studies using meal replacements for one or more meals.³ Because overweight individuals have been shown to underestimate calories by 40% and average-weight individuals by 20% or more, having controlled portion sizes is an enormous advantage.⁴ Meal replacements can take the form of shakes, bars, portion-controlled frozen meals, or fully prepared meal deliveries. More recently meal kit services have become very popular. They provide a kit containing prepared and premeasured ingredients and instructions for preparing high-quality home cooked meals. By using meal replacements for some meals, clients report feeling less stressed because there are fewer temptations and a reduced need to think about selecting and preparing an acceptable meal.³ Clients and counselors can concentrate on changing behavior patterns using a narrow focus. As clients gain knowledge and skills, the number of regular meals can be increased.

Detailed Menus and Meal Plans

Just tell me exactly what to eat. I want a detailed plan.

Sometimes clients are overwhelmed with the diagnosis of a new disease or have been frustrated with previous attempts to follow a therapeutic diet plan on their own, and they are looking for a great deal of

structure. Structured weight-loss programs frequently include grocery lists, menus, and recipes to enhance adherence to low-calorie diets.⁵ Similar to the meal replacements, structured plans reduce the stress of making choices. Software programs and several websites can assist in developing meal plans, complete with recipes and a shopping list. Many of the websites can develop meal plans for common dietary restrictions, such as low sodium, low fat, and high fiber. Care should be taken to design a plan based as much as possible on your client's food preferences and lifestyle patterns. In fact, the best way to use websites with predesigned meal plans is to have your client sit at the computer with you to work out a week's plan while discussing upcoming life events for the next seven days. If you have a capable client, this activity can be repeated at weekly intervals until the client can take over complete responsibility.

Food Lists for Weight Management

I want a lot of structure but freedom to select foods.

The American Diabetes Association and The Academy of Nutrition and Dietetics publications **Choose Your Foods: Food Lists for Diabetes** and *Choose Your Foods: Food Lists for Weight Management* (5th edition, 2019), can work for someone who wants considerable structure but freedom to make some choices. Previously referred to as the exchange system, the booklets provide guidance for building healthy meals by understanding how carbohydrates, protein, and fat can be combined into eating patterns you choose. Categories of foods are grouped by starches, protein, fat, fruit, milk, snacks, and desserts.

MyPlate or Dash Food Plan

I want some structure and freedom to select foods.

Either the **MyPlate** website or the **DASH Food Plan** can provide guidance for an individual who wants some structure but freedom to select foods. In 2011, the U.S. Department of Agriculture (USDA) released the MyPlate food guidance system. The icon of MyPlate helps to understand the proportions of the major food

Anecdote

One of my clients was a man who had been told by his doctor to lose weight. He said he had been on diets before and did not want a diet where he had to choose something from columns or groups. He said, "Just tell me exactly what to eat." I told him my concerns about boredom or the need to make adjustments due to events or food availability. He was adamant and his wife, who was also at our meeting, assured me that she would be sure to always have needed food accessible. During this meeting, we were only able to design three days' worth of meals. At our next appointment, which was in two weeks, he was happy to report a loss of 6 pounds, but he said that he really wanted more variety. We developed three more days of detailed eating plans that provided some flexibility for fruits and vegetables. As he became familiar with the new eating pattern and serving sizes, his program evolved into a more general, flexible plan based on food groups. Actually this ended up being just the type of food group plan he said he did not want. This client seemed to need a highly structured plan to begin a program.

groups to consume each day. These are the three over-reaching messages associated with MyPlate:

- Balancing calories (enjoy your food, but eat less and avoid oversized portions).
- Increase intake of nutritious foods (make half of your plate fruits and vegetables, make at least half of your grains whole grains, and switch to fat-free or low-fat dairy).
- Limit intake of foods with lower nutritional value (choose lower sodium varieties of soup, bread, and frozen meals and drink water instead of sugary drinks).

The MyPlate Website provides an individualized diet approach that considers age, gender, and physical activity level. It suggests a caloric intake level and then recommends a food pattern promoting dietary control, adequacy, moderation, variety, and balance. An individualized diet is provided. Lifestyle Management Form 5.3 in Appendix C has the approximate MyPlate recommendations for a 2,000 calorie diet. However, the MyPlate website, www.choosemyplate.gov/, provides an individualized downloadable food group plan. Food groups include grains, vegetables, fruits, dairy, protein foods, and oils. Physical activity is emphasized along with limited fats, sodium, and added sugars.

The DASH Food Plan has defined serving sizes for the food groups and contains an additional food group consisting of legumes, seeds, and nuts. Also, keeping sodium intake between 1,500 and 2,300 mg per day is emphasized. The web address can be found under resources at the end of this chapter. The DASH Food Plan was developed for individuals with high blood pressure; however, it provides guidance for healthy eating for everyone.

Goal Setting

I don't want to follow a diet. I just want to eat better.

For clients who do not want any type of structured eating plan, lifestyle changes can be made solely through goal setting. This approach complements non-dieting programs for making healthy lifestyle changes, which have a significant voice among health professionals.⁶ See Chapter 5 for goal-setting guidelines.

6.3 Tracking

No matter what food management system has been selected, your clients should be encouraged to keep track of their progress. Without a self-monitoring method, evaluation of food behavior goals becomes difficult. **Tracking** methods vary in complexity. The method selected should depend on your client's ability to work with structure and details. Some people enjoy recording everything they eat and reviewing the material at the end of the day; others become quickly frustrated with the procedure. Discuss several options with your client.

Journaling

Journaling is a tracking method that has consistently been shown to be effective in altering behavior in general and food habits in

particular.⁷ In an evaluation of self-monitoring of an 18-week standard behavioral weight loss program, individuals who consistently kept food records had a mean loss of approximately 15 kg, while those who did not self-monitor gained an average of about 4 kg.⁸ Recording behavior becomes a self-management tool by increasing awareness and providing a "time-out" for making a decision. Food intake should be recorded immediately before or after eating. The short time spent on reflection may result in taking an action to maintain one's lifestyle objectives.

A number of factors related to food intake can be recorded in a journal, depending on the client's motivation and journaling objectives. At the very least, a food diary would include a list of foods consumed and may also contain portion size, calories, fat grams, and physical activity. Some behavior management programs have encouraged participants to record time, place, the presence of others, mood, thoughts, concerns, degree of hunger, activities at the time of food consumption, and health parameters (blood sugar and blood pressure). As can be expected, client resistance is likely to mount with increasing requirements for journal entries. However, the need to record the psychosocial variables probably declines for most individuals after a few weeks.

Analysis of the records can help counselors and clients develop new goals. Streit et al.⁹ found the following

Anecdote

One of my clients who used journaling successfully stated, "Some people say keeping a diary is too much work, too stressful, but I found it much more stressful before journaling when I was eating well and exercising and gaining weight. Now that we developed a diary method that works for me, it does not take much of my time, and I am able to eat well and have foods that I enjoy."

Anecdote

I am so pleased when clients keep food records because I know it is one of the best ways to change and maintain food behavior. I always review the food records with my clients, and I often put stars in the journal on entries that indicate that their goals were kept.

procedures successful in guiding clients who chose journaling to help manage their food intake:

- **Provide training.** Clients gain a better understanding of the process when hands-on activities are included as well as complete instructions of how to keep a journal. Although clients should be encouraged to measure what they eat whenever possible for at least a few weeks, the training should include a review of estimation of portion size, since measuring will not always be possible. An education method found to be successful in one study included a review of participants' food diary entries of a sample meal by dietitians.⁹
- **Use estimates.** Sometimes clients can become frustrated with writing down exact amounts of food consumed and then calculating caloric content or percentage of calories from fat, especially when consuming mixed dishes that the client did not prepare. Therefore, to reduce anxiety, clients should understand that approximations are acceptable.
- **Set meaningful and achievable goals.** Clients are more likely to be successful in record keeping if the first goal is modest, such as two days a week. Then, gradually increase journaling activity in subsequent weeks. Streit et al.⁹ found successful dietary changes with as few as two days of records per week. However, more frequent journaling is associated with even greater food behavior change.¹⁰ The anxiety of record keeping is likely to be reduced if there is a degree of flexibility, enabling clients to feel they are "off the hook" for complicated meals or stressful days. Also, consider recording at only specific times of day that are the most challenging, such as recording evening food intake after coming home from work or school. Also, clients may feel recording is achievable upon learning that there is a learning curve and time needed to journal will decline. Participants in a 24-week, online, behavioral weight-control intervention reduced self-monitoring from an average of 23.2 minutes per day in month one to 14.6 minutes in month six.¹⁰
- **Provide a variety of record-keeping options.** Some clients prefer to use a pocket

calendar with enough space to record a day's worth of food intake. At times, clients will devise their own record-keeping system.

- **Provide nonjudgmental feedback.** Clients should always be praised for their journaling work, and counselors should always review their clients' journals with no hint of criticism. Client thoughts regarding the journaling activity should be sought. Analyzing the record keeping may give greater insight regarding patterns and triggers that encourage poor eating choices. In a study reported by Streit et al.⁹ the most effective technique for motivating participants to keep food records was to have dietitians review the journals and return them with brief comments. Clients were also encouraged to write questions in their diaries.

Journaling Alternatives

There is more than one approach to journaling. Counselors and clients should think creatively to find ways to make it work. Here are some ideas:

- **Checking off.** For clients following food group plans, checking off boxes or crossing out slashes throughout the day can be used. Names of food groups could be written on a form, or the names could be abbreviated and written each day in a pocket calendar. This methodology may appeal to some who resist writing; however, there would be a reduction of information collected for evaluation.
- **Electronic monitoring.** Successful approaches include digital photography monitoring, audio-video food journaling, and a variety of smart phone apps.¹¹ See Chapter 12 for a review of popular smart phone apps. Clients can be encouraged to take pictures with a camera application on a mobile phone of confusing or difficult food encounters to be reviewed with their counselor.

Anecdote

I made cards for frequently consumed individual foods and meals. The cards contain a food or components of a meal and calories. I color-coded the cards according to food groups. Often in the morning, I select the cards that I will need for the day. If there is no card for a particular food I plan to eat, I make a new card. As I eat a food, I move the corresponding card into an envelope. At midday or near the end of the day, I review what I have eaten and plan the rest of the day accordingly. This process only takes me a couple of minutes. At the end of the day I record my calorie intake and exercise in a small calendar. Sometimes I skip a day of food journaling if it is just too difficult to figure out calories. Using the cards has worked much better for me than writing down all the foods I eat in a journal.

- **Using art.** Drawing pictures, scribbling, or choosing colors has been used to assist clients in getting in touch with their feelings or moods while consuming food.
- **Empty bowl.** Put desired food objectives in a visible spot such as a bowl in the kitchen at the

beginning of the day or week. Goals are assessed according to the amount in the bowl at the end of the day or week. Clients can take pictures of changes in the bowl to review with their nutrition counselor.

6.4 Behavior Change Strategies

A number of behavior change strategies can be incorporated into a counseling program. The selection of a particular strategy to be used with clients depends on their motivational stage; resources; lifestyle, educational, and emotional needs; as well as the expertise of the counselor. The Social Cognitive Theory sets a framework for a discussion of behavior change strategies by focusing on points in the sequence of behaviors.¹² Behavior change strategies can be addressed in terms of the **ABCs of behavior**:

- A: Antecedent (stimulus, cue, trigger)
- B: Behavior (response, eating)
- C: Consequence (punishment, reward)

Let's take a closer look at each of these components:

- **Antecedents.** Encountering antecedents to eating occurs normally throughout the day. For example, time of day or the feeling of hunger in the stomach stimulates the desire to eat, so we eat. Usually in nutrition counseling, we are particularly interested in cues that trigger unconscious eating or consumption of large quantities of certain types of food. Behavior change strategies addressing antecedents often concentrate on physical availability of food (cookie jar), social (parties), emotional (stress), or psychological (motivation; destructive thought patterns). Behavior change strategies dealing with antecedents can focus on avoiding the cue (remove cookies from the house) or altering the cue (cover a piece of cake with pepper).
- **Behavior.** Strategies dealing with the behavioral response to an antecedent may address the actual act of eating (speed), physical (eat in one place), emotional (do not clean your plate), awareness (pay attention to eating; no electronics), or attractiveness (sparkling water in a wine glass with a slice of lemon). Behavior change strategies may focus on providing a substitute for eating (take a walk).
- **Consequences.** Consequences can be positive reinforcers or punishment, such as a reward or losing a privilege.

Behavior Chain

The sequence of events from antecedent to consequence is referred to as a behavior chain; see Exhibit 6.1 for some examples. Behavioral strategies can address all

aspects of a **behavior chain** or can zero in on one aspect. Caban et al.¹³ have determined that tailoring counseling approaches to client needs improves outcomes. Specifically, they found that clients who are highly motivated and reported few external stressors were likely to be receptive to nutritional and physical activity interventions. On the other hand, those who reported more external stressors in the initial assessment benefited from relaxation training, stress management, and problem-solving approaches in the beginning of treatment.

Asking clients to reflect on their behavior can give clues as to what behaviors are in the greatest need of change. One excellent method for evaluation, mentioned earlier, is a complete diary of food behavior. Intense journaling activity can be demanding, but

Exhibit 6.1 Behavior Chain Examples

Negative Consequence

Juanita comes home from work hungry. She walks into the kitchen to fix dinner. There is a bag of her favorite potato chips on the counter (antecedent). Juanita tells herself she will eat just a few and opens the bag, leaving it on the counter as she prepares dinner. She ends up eating the whole bag of chips (behavior). When dinner is ready, Juanita picks at her food because she is not hungry. She is frustrated because she knows a bag of potato chips is not nutritious and she is not getting enough vegetables and fiber in her diet (consequence).

Positive Consequence

Juanita comes home from work hungry. There are an orange and walking clothes and shoes prominently displayed on a chair in the kitchen (antecedent). Juanita eats the orange, changes her clothes, and goes out for a half-hour walk (behavior). When she returns, Juanita is in good spirits, and she prepares dinner. She eats a healthy meal with whole grains and vegetables; she is content (consequence).

Exercise 6.1 Behavior Chains

Record in your journal one of your frequent **behavior chains**. Identify the cue (trigger), specify the behavior, and describe the consequence.

- ☐ Is this a behavior that you would like to continue? If so, is there a way to encourage the occurrence of the cue? If not, is there a way to reduce the incidence of the trigger? Explain in your journal.

clients may be willing to do an extensive recording for a few days or one week. Some clients may enjoy the intense analytical activity and want to continue this form of journaling for an extended period. See Lifestyle Management Form 6.1 in Appendix C for an example of a food diary form for intensive journaling.

Cue Management (Stimulus Control)

Cue management (stimulus control) deals with the antecedent component of a behavior chain by prearranging cues to increase a desired response or to suppress a detrimental one. Counselors and clients work together to identify and modify social or environmental cues that trigger undesirable eating.¹⁴ An effective method of introducing the concept of cue management to a client is by using an analogy (see Exhibit 6.2).

The first task for using this method will be to identify cues. Sometimes triggers that stimulate a particular food response are obvious (such as a stash of candy bars in an office desk), but other times the cues are inconspicuous. When this is the case, a few days or weeks of intensive journaling by using a form such as Lifestyle Management Form 6.1 in Appendix C could help identify the stimuli. In the case of decreasing the occurrence of a detrimental food stimulus, the objective in cue management is to alter the triggering stimulus or reduce exposure to it.¹² Table 6.2 lists some strategies for controlling common physical environment and social cues. A discussion of regulating stress can be found in

Chapter 7, and a review of cognitive factors influencing behavior is found later in this chapter.

After a strategy is developed to counteract a cue, it is generally a good idea to talk through or visualize with your client how the strategy will be implemented. The scheme should include reminders to perform the new activity, such as the following:

- Sticky notes left in strategic places—such as on a refrigerator or dashboard
- Notes on a calendar
- Cartoons or jingles posted in a book or briefcase used every day
- Entries on a daily to-do list
- Electronic messages on a smartphone

Remember when using this technique to look for cues that produce beneficial behaviors as well as cues that encourage detrimental behaviors. If the focus can be on increasing the occurrence of positive behavior producing cues, the transition to a healthier lifestyle is likely to go more smoothly with seemingly less effort. As desirable behaviors make a greater impact on one's lifestyle, the time available to engage in the undesirable is automatically reduced. Sometimes counselors place so much emphasis on solving problems and getting rid of undesirable food behaviors that a search for desirable cues is neglected.

Countering

Countering, a technique of exchanging healthy responses for problem behaviors, addresses the B (behavior) portion of the behavior chain.¹⁵ If an individual simply stops a pattern, there is likely to be a void unless a new behavior is substituted. For example, a client may consume two cups of ice cream each night after dinner in front of the television. The transition to changing that behavior will go more smoothly if an alternative behavior is planned, such as riding an exercise bike, stretching, or mending. Ordinarily, countering is a usable behavior intervention strategy when the objective is to find an activity to substitute for eating or when an acceptable food alternative is available. General categories of substitutions include the following:

- Foods that are acceptable or a healthier alternative, such as baked chicken in lieu of fried chicken
- Active diversions, such as knitting, writing, playing an instrument, working on a puzzle, or cleaning
- Physical activities, such as walking, stretching, or weight lifting
- Relaxation activities, such as deep breathing, yoga, prayer, or progressive muscle relaxation (Relaxation is covered in Chapter 7 under stress management.)

Exhibit 6.2 Example of Using an Analogy to Introduce Cue Management

- Counselor:** Imagine that one day you are driving your [use the name of client's dream automobile] and hit a big pothole. Luckily, you have a sturdy car and it is not damaged. What would you do if you were to go to the same destination again?
- Client:** Avoid the pothole. Drive slowly. Take an alternative route.
- Counselor:** Very good! You simply drive differently. We are trying to apply the same idea here, which is to learn to identify and anticipate potential "potholes" in your road to meeting your food goal so that you can be prepared to "drive" differently.

Source: Janice Y. Tsoh, Jennifer B. McClure, Karyn L. Skaar et al. Smoking Cessation 2: Components of Effective Intervention. *Behavioral Medicine* 1997; 23:15–28.

Table 6.2 Strategies to Control Environmental Cues

Stimuli	Solution
<p>Physical Environment</p> <p><i>Location:</i> Some people eat in many places of their homes, resulting in numerous cues for eating—bed, TV room, kitchen sink, or in front of the refrigerator.</p> <p><i>Activities:</i> Engaging in activities such as reading or driving a car while eating results in producing additional cues and encourages unconscious eating.</p> <p><i>Restaurant eating:</i> When individuals are hungry and make selections in fast-food restaurants or in a sit-down restaurant, they are susceptible to impulse eating.</p> <p><i>Shopping:</i> Degree of hunger can influence food purchases and make consumers more receptive to store cues, which encourage impulse buying.</p> <p><i>Serving:</i> Attractiveness of food can be a cue to eating and encourage food consumption. This is particularly important if foods that need to be consumed are not well liked.</p> <p><i>Reminders:</i> Physical cues can be used as reminders to perform a behavioral action.</p> <p><i>Storage of food:</i> Usually food stored in sight, such as counters and tables, provides cues to eat.</p>	<ul style="list-style-type: none"> • Designate one place for eating all meals and snacks. Besides reducing location cues, the need to travel to a particular spot provides extra time to think about whether the food actually needs to be eaten. • While eating, do nothing else. With fewer distractions, focus can be placed on the pleasures of eating and on the degree of fullness. • Bring lunch from home. • Order from a menu rather than eating from a buffet. • Decide on a selection from a menu on the Internet before going to the restaurant. • Review calories of fast-food choices on the Internet if not labelled at point of purchase. • Do not shop when hungry. • Use a shopping list. • Bring only enough money to purchase foods on the shopping list. • Serve foods that are being encouraged in an attractive manner; for example, put a slice of lemon in a water glass or use parsley for a pleasing effect. • Serve foods in desired portion size and put away the rest. For example, count out the desired number of nuts into an attractive bowl and replace the storage bag in the refrigerator. Take the bowl to the designated place to eat. • Learn to say “No thank you” to offers of food. • Use sticky notes, cards, or other reminders to eat certain foods. • Store foods that should be avoided out of sight in inconvenient places. • Foods that should be encouraged should be highly visible. • If possible, do not bring foods into the home that should be discouraged. • Do not store undesirable foods in an office desk.
<p>Social Environment</p> <p><i>Social events:</i> Many people identify social gatherings as a particularly difficult time. There is often an array of tempting foods, and if alcohol is consumed, defenses often decline.</p> <p><i>Social support:</i> Family and friends can help or hinder with progress in meeting dietary objectives.</p>	<ul style="list-style-type: none"> • Plan and rehearse how to deal with temptations at an upcoming event. • Do not go to social events hungry. Have a snack ahead of time, such as an apple or orange. • Drink water and plan to have one alcoholic drink, if any. • Volunteer to bring a vegetable platter or other acceptable food for your needs. • Do not stand near food. Move food to a distant location if it is placed near you. • See Chapter 7 for a discussion of ways to enhance social support for lifestyle changes.

(continued)

Table 6.2 Strategies to Control Environmental Cues (*continued*)

Stimuli	Solution
Eating Behavior	
<i>Food in mouth:</i> Eating quickly may be a habit that encourages mindless eating of large quantities of food.	<ul style="list-style-type: none"> • Put utensils down between mouthfuls. • Chew fully before swallowing. • Take small bites. • Take a break during the meal. • Swallow each bite before adding any more food.
<i>Unconscious cues:</i> A person may not be aware of the triggers that encourage the desire to eat certain foods.	<ul style="list-style-type: none"> • Move to a new place at the table or a new room. • Practice mindful eating. See Chapter 7.
<i>Food on plate:</i> There may be a need to clean the plate.	<ul style="list-style-type: none"> • Set a goal to leave food on the plate.

Exercise 6.2 Identifying Cues and Exploring Countering

List three common cues to unconscious eating or eating undesirable foods. Next to that list, write a countering behavior that would be acceptable to you if the cue was applicable to you. For example:

Cue	Behavior	Alternative
Movies	Large popcorn with butter	Small popcorn without butter

Reinforcement: Rewards

For some people, tracking and cue management interventions are adequate to develop and sustain a desired behavior; however, others need an added incentive to regulate and strengthen behavior.¹⁶ Reinforcement behavior change strategies provide incentives by addressing the end of the behavior chain—consequences. **Rewards** provide positive consequences, commonly thought to be more effective than negative consequences, such as punishment.¹⁵ Generally, there is an inherent reward of feeling good following the accomplishment of achieving a goal, resisting temptation, or substituting alternative behaviors for undesirable behaviors. In fact, clients should be encouraged to get in touch with those feelings and compliment themselves with positive self-talk, such as “I am doing great!” or “I can make this work.” Although self-compliments are beneficial, more tangible rewards can provide additional motivation during challenging times—for instance, in the initial attempts of making a lifestyle change.

Rewards can take many forms, and a client may need some time to think over potential options before selecting

a workable reward. Usually rewards are luxury items (purchase of clothing) or pleasurable experiences (relaxing bath or reading a book). A technique for accumulating small rewards could be considered, such as placing money in a jar each time a particular behavior is accomplished. When the desired amount is collected, the money could then be used to buy something special. Rewards can be self-administered or given to a client by a significant other. Rewards should be contingent on the behavior. For example, if the reward was a manicure, the client would not get the manicure if the behavior was not accomplished. If you believe your clients would benefit from rewards, you should discuss the behavior change strategy with them and evaluate the response. If there is hesitation on the client’s part, it may be best to allow time to think about the concept until your next meeting.

The following are some major factors to consider when establishing rewards:

- Rewards should be individualized.
- Rewards should be well defined—what and how much.
- Rewards should be timed to come after the behavior, not before.
- Rewards should be given as soon as possible after the behavior is accomplished.

Rewards can also be used as a component of a nutrition intervention program. For example, rewards can be used for attendance, completion of food or blood glucose records, or attainment of an exercise goal. Studies using financial incentives for weight loss did not reveal any benefit.¹⁷ Since adults are likely to be intrinsically motivated, rewards may have a greater influence on children, who are more likely to be extrinsically motivated.

Anecdote

I generally encourage my clients to identify positive reinforcements for their behavioral contracts. However, one time I had a client insist that her contract stipulate that she would give her ex-husband a hundred dollars if she did not accomplish her task. Needless to say, she followed through on her goals.

Contracting

Rewards are often used in conjunction with contracting. A **contract** documents an agreement between a counselor and a client to implement a particular goal. The contract can cover short- or long-term goals. An example of a behavioral contract can be found in Exhibit 6.3 and Lifestyle Management Form 6.2 in Appendix C.

Contracts should be used when clients want structure and accountability, and they should be recorded because written contracts are more powerful than oral ones.¹⁵ The following is a list of factors to consider when using a contract:

- Clients should define their intended behavior change for the contract. The counselor should never impose a goal.
- Behavioral goals should be clearly defined. The same conditions apply as those described in Chapter 5 for goal setting. The goal statement should answer what will happen, how often the behavior will occur, and when it will take place.

Time limits for reaching the goals should be delineated.

- Reinforcers should be stated. They can be rewards or punishments. Generally, rewards are considered to have a greater impact and should be immediately available after the intended behavior is performed. If the contract covers a long-term goal, a reward that requires greater effort, such as a trip or

Exercise 6.3 Make a Contract

The purpose of this activity is to give you direct experience with contracting. Think about a behavior that you would like to change or a task you would like to accomplish within the next week. Use Lifestyle Management Form 6.2 in Appendix C to complete the contract. Have a colleague discuss the contract with you and sign it. Because the goal you will be setting is not part of a total counseling program and you may not be ready to take action on a major behavior change you are contemplating, the goal you establish should be modest. Some examples of modest goals could be brushing teeth after breakfast, giving the dog a bath, or writing a letter to a friend. The goal should be something that you believe you need a little push to accomplish and should be possible to complete within the next week.

- ❑ At the end of one week, reflect on the experience and document any problems or successes you encountered in your journal. Explain how useful you believe this tool would be in a nutrition behavior change intervention.

shopping, can be considered. Otherwise, rewards that do not put an extra burden on a client should be sought. For example, a contract for an individual who enjoys coffee in the morning can be as simple as, “I do not drink coffee for breakfast until I have eaten a piece of fruit—no fruit, no coffee.”

Exhibit 6.3 Sample Behavioral Contract

Counseling Agreement

Name _____ Date _____

My plan is to do the following: _____

This activity will be accomplished on _____

My reward will be _____

Client signature

Date

Counselor signature

Date

Exercise 6.4 Exploring Encouragement

Describe in your journal a time when words of encouragement were particularly useful to you to accomplish a task. Explain anything you can bring from the experience that could help you in your nutrition counseling endeavors.

Exercise 6.5 Identifying Models

Divide into groups and discuss the potential impact of a counselor who is not at “ideal body weight.” Do you believe a counselor who does not appear to be what is generally considered fit can be an effective nutrition counselor? Record your thoughts in your journal.

- Signing and dating the contract can reinforce a client’s commitment. Usually the contract is signed by only the counselor and the client; however, there can be times when consideration should be given to having the document signed by a support person, such as a spouse or friend.¹⁸

Anecdote

I had a religious client who consumed a lot of low-nutrient-dense foods in her bedroom. I made a small sign for her nightstand reminding her of her goals and telling her I would be thinking about her and praying for her. When my client went on vacation, she was worried about how she would handle her food goals. I gave her an audiotape I recorded for her trip with some personal words of encouragement, a few supportive sayings I took from a book on motivation, and a prayer. This client did well, and I believe the encouragement I provided was helpful.

Encouragement

Encouragement is generally well received; however, a client’s past experience trying to accomplish a desired behavior change can influence the impact of encouraging remarks. Also, the effect will vary with the credibility, trustworthiness, and prestige of the person giving the words of encouragement. Some counselors have provided encouragement creatively using emails, cards, notes, voicemail, personalized signs, text messages, notes, or electronic recordings. One counselor has clients record their relaxation messages with their own words of encouragement to listen to before going to bed.

written testimonials, success stories, counseling buddies, and role playing are possible models that can be used in a counseling environment to increase self-efficacy. Outside counseling sessions, models who have prestige, status, or expertise are more likely to influence behavior than those who do not have those characteristics. For example, when Oprah Winfrey used a diet drink to lose weight, sales of the product soared. However, most often people with whom we identify closely have the greatest influence on our behavior. We are more likely to imitate an individual who is similar to our age, gender, and culture.

Modeling can have a greater impact if a client can practice the observed behavior under supervision and then receive immediate feedback.¹² For example, clients could select acceptable items from a restaurant menu after watching a video of people making desirable choices.

Goal Setting

Achievement of goals provides a pathway to actually performing the new behavior. Breaking down desirable behavior patterns into small achievable steps provides a series of successes and an improvement in self-efficacy. As the saying goes, “Nothing breeds success like success.” Each success raises mastery expectations. We covered the process of goal setting in Chapter 5.

Modeling

We learn many of our behaviors by observing and imitating others. By observing others accomplish a goal similar to their own, clients’ beliefs in their ability to imitate the behavior increase. This process is referred to as **modeling**. Videos, lay counselors,

Anecdote

One of my clients relayed a story of going to a pancake house for breakfast with friends. She had not been to this type of restaurant in years and assumed that she would order waffles or pancakes and sausages for her meal. However, her friend ordered a broccoli omelet made with an egg substitute. This observation influenced my client, and she decided that she would imitate her friend and order the same thing.

Problem Solving

Problem solving is a process that involves a counselor and client working together to identify a behavior chain, detecting barriers to change, brainstorming possible options, and weighing the pros and cons of the alternatives. The objective is to design an action plan by selecting as many breaks in the behavior chain as possible, especially focusing on the antecedents of the chain. The plan should include a reward. After the plan has been implemented, the counselor and client evaluate the outcomes of the action plan and make any needed adjustments. The client should receive the planned reward if any changes were made.¹⁷ See Exhibit 6.4 for a simplified description of this process.

Table 6.3 Overcoming Barriers to Change

Classification	Barrier	Strategy
Lack of knowledge	The client does not know what foods can lower blood pressure.	Provide pamphlets, videos, Internet sites, and grocery store tour.
Lack of skill	Limited cooking ability.	Shared cooking; demonstrations.
Lack of risk taking	Afraid of hurting mother's feelings. The client's mother prepares a large dinner every Sunday. There are seldom foods available that meet dietary objectives.	Explore ambivalence to requesting that the mother make acceptable alternatives. Use imagery or role playing to practice making a request.

Exercise 6.6 Explore Barriers

Interview someone who is attempting to make a dietary change. Record in your journal the difficulties the person is encountering.

- ☐ Describe the desired behavior change.
- ☐ Identify where the barrier or barriers fit into the behavior chain—antecedent, behavior, or outcome.
- ☐ How will this investigation assist you with nutrition counseling in the future?

Exhibit 6.4 Problem Solving

Glasgow et al.²³ describe a specific technique called STOP for systematically analyzing a problem and developing a solution. This problem-solving method involves the following:

- S—Specify the problem
- T—Think of options
- O—Opt for the best solution
- P—Put the solution into action

Barriers are obstacles or roadblocks to achieving a desired lifestyle change. Common barriers and possible strategies to minimize or eliminate their impact are listed in Table 6.3. Perceived barriers come in many forms, for example, taste preferences, difficult food preparation, complexity of the diet, lack of social support, inadequate financial resources, job or family pressures, and time constraints. An investigation to identify barriers of middle-aged patients who experienced myocardial infarction found social and work situations, the price of food, and situations in which large amounts of food are available to be the most frequently reported challenging conditions.¹⁹ Consumers indicate confusion if messages are negative or focus on a particular

nutrient.²⁰ Sometimes demographic variables have been found to have an impact on barriers, too. For example, low income, low education, and being male have been found to increase barriers to consumption of fruits and vegetables.²¹

The Academy of Nutrition and Dietetics advocates for a total diet approach to provide guidance for healthy eating to reduce barriers to behavior change. In their discussion of reducing barriers to achieve goals, Danish and Laquatra²² identify four major obstacles: lack of knowledge, lack of skill, the inability to take risks, and lack of adequate social support. For examples of the first three, see Table 6.3. Some of the most frequently named barriers can be addressed by an increase in knowledge. Nutrition counselors can often aid clients in finding ways to make needed dietary changes palatable, assessable, and convenient. However, counseling time should not be devoted to giving unneeded information if your client already has an adequate knowledge base. Mental and physical skills can be lacking, including assertiveness, decision-making, positive self-talk, time management, label reading, or estimation of portion sizes. Clients who are unable to take risks are often afraid of the negative consequences of taking action. For example, they could be afraid of hurting a friend's feelings by refusing an offer of food or afraid of dealing with the consequences of disruption for friends and family. Requesting help from family and friends or joining a support group can address social support concerns. See Chapter 7 for elaboration of social support.

6.5 Cognitive Restructuring

The mind is its own place and in itself can make a heaven of hell, or a hell of heaven.

—JOHN MILTON

Another component of maintaining a behavior change is how the troubles encountered when attempting a

new behavior are perceived. Around 55 A.D., a Roman Stoic philosopher, Epictetus, maintained that difficulties related to problems are rooted in how problems are perceived rather than the actual troubles caused by the problems.²⁴ Today, cognitive therapists embrace this concept and address **cognitive restructuring** by focusing on identifying irrational thoughts and modifying them. The premise is that because **cognitions** (what and how a person thinks and perceives based on life experiences) are learned thinking behaviors, they can be relearned.¹⁵ The objective is to change behavior patterns by changing destructive thinking patterns. Cognitive coping strategies, such as using positive self-talk, have been shown to effectively change lifestyle behaviors,¹ and in one study on smoking cessation, these strategies outperformed behavioral methods.²⁵

Thinking patterns have been categorized as *opportunity thinking* and *obstacle thinking*. Each mindset can “influence our perceptions, the way we process information, and the choices we make in an almost automatic way.”²⁶ A pattern of opportunity thinking allows finding constructive ways to deal with difficult situations. On the other hand, engaging in obstacle thinking leads to self-destructive behavior—making a difficult situation worse or giving up and retreating from problems. For example, an opportunity thinker diagnosed with high blood cholesterol is more likely to feel inspired by the challenge and may focus on the resources available to learn about new foods, cooking techniques, and support groups. In contrast, obstacle thinkers are likely to engage in self-pity and be bogged down in the difficulties of obtaining or

preparing appropriate foods or adjusting their lives to take part in a support group. Authorities have identified common cognitive distortions leading to obstacle thinking patterns that adversely affect attempts to change behavior. They are listed in Table 6.4 and Exhibit 6.5 with examples of how they could be expressed in attempts to change lifestyle behaviors. Although the categories are presented as distinct entities, it is common for several of them to manifest at one time. See Exhibit 6.5 for an example.

The process of changing dysfunctional thinking addresses three factors:²⁵

- **Internal dialogue.** All of us engage in an ever-constant dialogue that influences our feelings, self-esteem, behavior, and stress level.²⁵ By influencing this dialogue to provide self-enhancing messages, clients can better cope with difficult situations and are more likely to find the resources to take positive actions.
- **Mental images.** Athletes have used mental imagery to help produce a desired performance. By visualizing the accomplishment of an intended task, clients are more likely to attain an intended goal.
- **Beliefs and assumptions.** Core beliefs are deeply ingrained, leading to assumptions that trigger automatic thoughts. See Exercise 6.8 for an exercise to evaluate your core beliefs. For example, a core belief could be “If I do everything right, I will not have any health problems.” The assumption is that everything must be done correctly, which could influence the development of some of the distorted cognitions listed in Exhibit 6.5 and Table 6.4.

Table 6.4 Negative Thinking

Common Negative Thoughts	Examples
Good or Bad (no in-between)	<ul style="list-style-type: none"> • Divide the world into good or bad foods • See yourself as a success or failure • Being on or off a diet <p><i>“I had potato chips. This isn’t working. I give up.”</i> <i>“I am a jerk for eating that candy. I am worthless.”</i></p>
Excuses	<ul style="list-style-type: none"> • Blame something or someone else • “Can’t help it” <p><i>“I will never be able to change. I just don’t have any will power. It’s just no use.”</i> <i>“I don’t have anyone to walk with.”</i></p>
Should Must Have to	<ul style="list-style-type: none"> • Expect perfection, no middle ground • Irrational standard • A set-up for disappointment • I must have the approval of others • Others must treat me fairly • I must get what I want <p><i>“I really must eat fish and oatmeal every day.”</i> <i>“Because I ate one potato chip, the harm has already been done. I might as well eat the whole bag.”</i></p>
Give Up	<ul style="list-style-type: none"> • Follows other distorted thinking <p><i>“There was no skim milk at the store. I can’t take this. Forget this food plan business.”</i></p>

Source: Adapted from Diabetes Prevention Program. Session 11: Talk Back to Negative Thoughts. Available from <http://www.bsc.gwu.edu/dpp/manuals.html#doc>. Accessed March 10, 2014.

Exhibit 6.5 Countering Negative Thinking

People who are attempting to make lifestyle changes need to guard against destructive, negative thinking. For example, people who say such statements to themselves as the following need to find substitutions:

- *"A physical activity program is out for me. A woman at the gym said I should be ashamed of myself. She is right, not the people in my support group who say I should accept and love myself. Also I tried walking once, but I got a blister. That just goes to show that I wasn't made for exercise! Probably if I walked every day my blood pressure wouldn't come down anyway."*

The talk exhibited here will certainly lead to defeat. This woman is focusing on negative feedback, generalizing that a single blister means "give up," and assuming the worst would happen. This talk could be transformed into "I am still searching for a way to make physical activity work for me."

- *"I did have a piece of fruit for a snack, but that didn't mean much because I ate potato chips. First I ate just one chip, and then I figured this is absolutely awful so the diet is over and I might as well eat the whole bag of chips. I guess I just don't have willpower. I am such a jerk!"*

This person should have given herself more credit for eating the fruit and focused on how and why the success happened. Identifying an episode as awful is not helpful because such a label can lead to a feeling that the situation is so bad that a solution can never be found. Using "absolutely" compounded the negativity of the phrase. The idea that once she started eating chips there was no use stopping often comes up when certain foods are considered off-limits. Also, blaming an indulgence on lack of willpower is always counterproductive because the characteristic is considered a personal failing, so a change in lifestyle could not possibly occur. Instead, this woman should ask herself what she learned from the situation and tell herself what she will do differently next time. In addition, clients should be discouraged from using derogatory terms, such as "jerk," to describe themselves. After being denigrated, a person is not likely to expect success in lifestyle change attempts in the future. Instead, people should remind themselves that they are learning, so that better choices can be made in the future.

- *"I really do not want to go on the hayride because I can't have the hot chocolate afterwards. The other people in my group should be more considerate of the fact that I have diabetes. I can't stand this!"*

Sometimes people focus on one small difficulty and distort the total picture. Instead of searching for acceptable options, this obstacle-thinker is caught up in criticizing himself or herself or others by using words such as *should*, *ought*, *must*, and *have to*. This creates an impossible standard, resulting in negative feelings that can lead to a relapse.

Changing patterns of thinking that have been part of a person's makeup for many years can take a great deal of effort. The process of changing cognitions is a complex process, and there are psychotherapists who specialize in this type of therapy. Nutrition counselors, however, could incorporate some cognitive interventions into their sessions. The steps of this process are as follows:²⁶

1. **Education.** Many individuals are not aware that thoughts are controllable. Your first step in cognitive restructuring is to educate your clients about this concept, reminding them that just because thoughts pop into their heads does not mean that those thoughts must persist. In particular, we do not want to allow self-destructive thoughts and irrational messages to remain. They will influence our actions, and our behavior is likely

to be counter to our lifestyle objectives. A leading psychologist is reported to have written, "One of the most significant findings in psychology in the last twenty years is that individuals can choose the way they think."²⁶

Counselor: *Possibly your thoughts may be hampering your progress to make behavior changes. Some people are surprised to learn that we have control over what messages our brains deliver. It has been found that by directing our self-talk, we can improve the outcomes of our behavior change attempts. What if you were to replace negative self-talk with positive statements?*

2. **Identify dysfunctional thinking.** Analyze existing beliefs and assumptions, self-talk messages, and mental imagery patterns.

- Sometimes clients are well aware of their negative thought patterns but may have never thought they could be changed.
- Show Table 6.4 and ask your client whether he or she can identify with any of the common cognitive distortions.
- Review and analyze a situation your client identified as difficult. The following are some questions to help explore cognitions:

Counselor: *What were your feelings before, during, and after the event?*

What were you saying to yourself?

- Keep a journal. Recording thoughts and feelings before, during, and after the behavior change attempt can help identify obstacles or self-enhancing thinking patterns. The Eating Behavior Journal, Lifestyle Management Form 6.1 (see Appendix C), can be used for this purpose.

3. Explore validity of self-destructive statements.

Counselors can help their clients challenge their obstacle thinking patterns by exploring the validity of the internal messages.

- Ask self-evaluating questions. By using probing questions rather than evaluations, counselors can aid clients in discovering inconsistencies.¹² This exploration provides a template for clients to challenge their irrational beliefs on their own. See Exhibit 6.6 for a list of probing questions.
- Use humor. Corey²⁷ reports that humor is one of the most popular techniques that rational emotive behavior therapy (REBT) practitioners use to illustrate the absurdity of certain self-destructive ideas and to help clients not to take themselves so seriously.

Counselor: *Heavens! You should be boiled in oil. You ate the whole bag of chips!*

- ### 4. Stop destructive thoughts. Thought stopping
- is a technique that was developed to put an end to recurrent self-destructive thoughts and self-dialogue. It involves mentally saying the word *stop*, pushing away destructive automatic thoughts, and substituting *constructive thoughts*.¹² To enhance the forcefulness of the word *stop*, a big red stop sign can be imagined, or, if an individual is alone, a book can be slammed on a table or the back of a hand can be slapped. A constructive, affirming thought is then substituted.
- ### 5. Prepare constructive responses to substitute automatic dysfunctional cognitions.
- After clients

Exhibit 6.6 Self-Evaluating Questions

- Is the idea accurate?
- What evidence exists that this idea is not correct?
- Why is it so terrible that you ate that food?
- Do people learn new behaviors by performing perfectly all the time?
- Where is it written that you cannot stand a situation?
- Is there any factual evidence that supports this idea?
- What are the worst things that could happen if what you must, should, or ought to do doesn't happen?
- Are there good things that would occur if what should happen did not happen or what should not happen did happen?
- What good does it do to focus on negative thoughts?

have recognized that they have obstacle-thinking patterns, a counselor should explore their openness to preparing more effective thinking patterns. The following are some intervention techniques:

- Identify and develop constructive thoughts to substitute for dysfunctional ones. This can be done through using challenging self-evaluation questions, such as these:

Client: *Is a hot dog the only reason for going to a ball game?*

- Clients can also substitute opportunity thinking, such as this:

Client: *Rain makes walking outside inconvenient; it doesn't mean I need to stop my walking program. This shows I need to prepare for a rainy day. I will buy a good raincoat.*

- Use imagery. In this technique, an intense mental rehearsal is used to set new patterns of thinking. Ellis and Harper²⁸ describe this as an effective method involving clients imagining their feelings and self-talk in a worst-case scenario using previously established self-destructive thinking patterns and allowing negative feelings to emerge. Then a plan is made for a better response, and the imagined scenario is replayed using opportunity-thinking patterns. By repeating this exercise a number of times before encountering the activating event, clients will be better equipped to respond with nondestructive thinking when the

event does occur. Events a nutrition counselor may visually imagine with a client could be ordering food at a fast-food restaurant, handling desserts at a holiday meal, or reducing cups of coffee or soft drinks consumed in a day.

6. **Substitute constructive thoughts for destructive ones.** Replace destructive thoughts with previously prepared constructive thoughts—for example, “I learned that I shouldn’t buy potato chips.”

6.6 Education During Counseling

The primary step to changing dietary behavior and maintaining dietary objectives is education.²⁹ Clients must understand why dietary change is important and be informed of pertinent nutrition information to be capable of making informed decisions to change their behaviors. In a study designed to measure the key determinants of satisfaction with diet counseling, patients identified knowledge along with facilitative skills as the most important components of their counseling experience.³⁰ Patient education was an integral part of the successful Diabetes Control and Complication Trial.³¹ In the Academy of Nutrition and Dietetics Nutrition Care Process, the nutrition education domain is divided into two categories: content and application. The content

category is defined as “instruction or training intended to lead to nutrition-related knowledge.” The application category addresses assistance in skill development and interpreting medical results related to a nutrition prescription, stating, “instruction or training intended to lead to nutrition-related result interpretation or skills.”³² In this discussion of nutrition education, we will use these definitions to review the components of the education process during a counseling intervention. Chapters 11 and 12 will use a more robust definition of nutrition education for a discussion of nutrition education interventions.

Effective Education Strategies

The education component of nutrition counseling must be incorporated into an intervention in a manner that facilitates behavior change. In recognition of this concept, the American Diabetes Association uses the term *self-management education* in the National Standards for Diabetes Self-Management Education.³³

Educational targets have been linked to specific educational interventions in Table 6.5. Funnell and Anderson.³⁴ advocate an integrated approach to education so clients can make informed decisions about their behaviors. This means addressing psychosocial concerns and initiating behavior change strategies before pouring educational content into an “empty bucket.” This methodology interfaces well with the counseling objectives covered in Chapter 4 and includes the following:

- Review role of client as self-manager and role of counselor as a source of expertise, support, and inspiration.
- Elicit client concerns and questions.
- Discuss clients’ experiences and understanding of their condition.
- Identify what the client wants from the counselor. Ascertain educational topics client would like to be addressed.
- Explore behaviors the client wishes to alter.
- Present information to address concerns and questions.
- Discuss strategies to address the behavioral aspects of the concerns.

To enhance the educational impact and to support different learning styles, varied approaches and active learning experiences can be incorporated into counseling sessions. See Exhibit 6.7 for a list of interactive activities and Tables 6.5 and 6.6 for a list of approaches for conveying messages that have been used successfully in nutrition counseling sessions.

I hear and I forget, I see and I remember, I do and I understand.

—CONFUCIUS

Exercise 6.7 Example of Destructive Self-Talk Using Cognitive Distortions

Mario is fifty years old and has a high blood cholesterol level. He attended a holiday party after a stressful day at the office. At the party, Mario told himself it would be OK to eat some higher-fat foods because he hadn’t eaten lunch. However, when he started eating and drinking alcohol, Mario ate some fruit and what he considered too many avoid foods, including several types of high-fat cheeses and cold cuts, various pastries, fatty snacks, and vegetables with dip. After leaving the party, Mario was annoyed and went home and ate some of his daughter’s Halloween chocolate. He said to himself, “I deserve to have a heart attack the way I eat. This is awful. I am a terrible person. I should have prepared a lunch. I should have eaten something before I went to the party. I should have eaten more vegetables. I’m surprised I ate any fruits at all. How did that happen? I might as well continue to blow the diet and eat the chocolate. I’ll never be able to eat right.”

- ☐ Identify cognitive distortions in the monologue.
- ☐ How are the distortions affecting Mario’s ability to make a lifestyle change?

Table 6.5 Linkage of Educational Targets and Interventions

Target	Intervention
Knowledge, beliefs	<i>Didactic education</i> : increasing awareness of risks and benefits; helping clients know how to make appropriate self-care decisions
Skills	<i>Demonstration and feedback</i> : showing how to execute skills; observing performance, correcting errors
Intentions	<i>Goal setting</i> : establishing specific and appropriate goals that are ambitious but realistic; behavioral contracting to increase commitment
Barriers	<i>Problem solving</i> : helping clients find ways to overcome barriers to implementing intentions
Self-efficacy, burnout	<i>Support and counseling</i> : helping clients maintain positive emotional well-being

Source: Adapted from Peyrot, M. Behavior change in diabetes education. *Diabetes Educator*. 1999; 25(suppl 6):62–73.

Exercise 6.8 Core Belief Activity

Read the following statements and put a check next to the ones that apply to you.

- ☐ I need to have love and approval from peers, family, and friends to be worthwhile.
- ☐ I must not fail or make a mistake. I must be a success.
- ☐ Life should be easy, and I should not be frustrated. I can achieve happiness through passivity and inaction.
- ☐ I should always be in control of my emotions. I should be able to control negative feelings, never showing unhappiness or depression.
- ☐ I should never argue with someone I love.
- ☐ If I am alone, I will be miserable and not feel worthwhile.
- ☐ It is horrible when things or people are not as I expect them to be.
- ☐ All evil and wicked people should be punished.
- ☐ If someone criticizes me, something is wrong with me.
- ☐ I must live up to other people's expectations.
- ☐ I am ugly unless I have a perfect outward appearance.
- ☐ My worth depends on my achievements, intelligence, status, or attractiveness.
- ☐ If I do everything right, I will be successful.

Answers

If you checked six or more statements, you seem to view the world as all good or all bad. You are likely to be hard on yourself and engage in obstacle thinking when attempting to make lifestyle changes.

If you checked three to six statements, you are being too hard on yourself. Your tendency to be rigid may leave you feeling bad when you make mistakes or when things fall below your expectations.

If you checked fewer than three statements, you have positive views about life. You are more likely to set realistic goals and not to be discouraged when things do not go as you had planned.

- ☐ In your journal, describe your reaction to this activity. What did you learn about yourself? Is this an activity you would like to do with a client? Why or why not?

Source: Copyright 2007 American Diabetes Association. From *The Complete Weight Loss Workbook*. Modified with permission from The American Diabetes Association. To order this book, please call 1-800-232-6733 or order online at <http://store.diabetes.org>.

Table 6.6 Nutrition Education Approaches During Counseling

Category	Explanation
Avoid technical jargon	Tailor your use of technical terms to the background of your client. Generally, technical jargon, such as <i>hypertension</i> for <i>high blood pressure</i> , should be avoided. Use low-literacy materials when appropriate.
Simplify directions	Concise, straightforward instructions with information about actual choices (such as items or brands) are more likely to be followed than complex regimens.
Incorporate self-help materials	To support the educational process, nutrition counseling programs have successfully incorporated self-help materials, such as workbook activities, for highly motivated clients who report few external stressors. ¹³
Repeat important points several times	Explain important points in several ways and vary learning experiences.
Limit the number of learning objectives per session	Too many learning objectives produce information overload, dilute important messages, and cause confusion.
Organize material in a logical manner	Generally, the first third of an information-giving session is remembered best. ¹⁸ Use organizing terminology, such as “We will go over three ways to reduce cholesterol. First, . . .”
Check for understanding	When giving factual data, be sure that the client understands what you are saying, especially before starting to cover a new topic. Watch for verbal and nonverbal cues or ask a question, such as “Do you understand?” or “Would you like me to repeat any of this?”
Incorporate significant others	When dietary instructions are involved, supportive family members, friends, or caregivers should be included. Ask your client if there is someone who should be included in the discussions.
Utilize visuals	Discussions of important concepts can be supplemented with anatomical models, videos, displays, pictures, diagrams, charts, and so forth.
Provide meaningful support materials	To aid memory and encourage the processing of information after leaving a counseling session, supportive reading material can be beneficial. This is particularly important when the client is feeling stressed. Studies of patient education have shown that clients typically forget half the information presented to them within five minutes. However, clients should not be confounded with an abundance of fact sheets, brochures, recipes, and coupons. Feeling overwhelmed may lead to an inability to take action. Handouts should be geared to a particular educational objective and tailored to your client’s needs. The lifestyle behavior change program at Health Partners, Inc., in Minneapolis leaves large blank spaces on their handouts for dietitians to write personalized messages for their clients. ³⁵
Disperse information over a period of time	A planned educational experience can be designated for part of a counseling session (for instance, portion size activities); however, sound bites can be introduced or reinforced throughout a session when the need or opportunity arises. Used appropriately, they can affirm a client’s behavior. For example, a client who enjoys eating chocolate could be told that chocolate contains caffeine and a chemical that enhances the feeling of well-being. However, a counselor should be sure of the educational value of the sound bite because overuse of this method could interfere with the progress of counseling.
Use stories, examples, personal accounts, and comparisons	These are aids to enhance an educational experience or to understand complex material. Exhibit 6.8 provides an example of using a comparison. The learning value of educational aids will be improved when they integrate with a client’s cultural orientation.

Exhibit 6.7 Interactive Educational Experiences

Here are some hands-on experiences that counselors can share with clients:

- Grocery store tour
- Cooperative cooking
- Cafeteria meal
- Fitness trail walk
- Trip to a gym
- Practice selecting items from a menu—circle high-fat foods on a menu
- Simulations
- Interpret food labels—compare the labels of two similar products
- Jointly modify recipes (have client bring recipes)
- Create menus
- Measure and weigh portion sizes
- Analyze blood glucose records of previous clients
- Role play

Exhibit 6.8 Example of Using a Comparison

- Nancy:** I don't even think anything is wrong. I think they might have made a mistake. I feel good.
- Counselor:** Actually, with high blood pressure you may not feel a thing. But that doesn't mean there isn't anything going on that can't eventually make you feel bad. When you were growing up and in school, did you ever get a callus on your finger from writing all the time?
- Nancy:** Yeah. As a matter of fact, I have a callus there now. I write orders all night long, and I have this ugly hard spot from my pen.
- Counselor:** That hard spot is from the pressure of your pen pressing against your finger while you are writing. The pressure causes scarring or hard tissue to form. A similar type of thing happens to your blood vessels when you have high blood pressure for years. They harden—it is called arteriosclerosis.

Supportive language usually means staying away from the word *you* and providing information in a neutral manner. Often starting sentences with the word *I* and asking permission can create a helpful counselor–client interaction. Kellogg³⁶ provides the following example of using supportive language, “I hear you. You are frustrated with how erratic your blood sugars have been. I have a few suggestions that I believe will bring you better numbers. Would you like to hear them and then you can choose which ones you will try out?” See Table 6.7 for additional examples of supportive counselor language.

Positive or Negative Approach

The issue as to whether a health risk message regarding dietary behavior should be cast in a positive or a negative light has not been resolved. Consumers have indicated that positive messages focusing on healthy food choices were more motivating than avoidance messages.³⁷ For example, the focus on increasing fruit and vegetable intake could be an emphasis on decreasing the risk of cancer or on looking and feeling better. Brownell and Cohen²⁹ point out that a moderate amount of fear appears useful for motivating a client to make a change. There would be no reason to change if there is too little fear; however, too much fear provokes denial and encourages attention to be directed elsewhere. Snetselaar¹⁸ notes that clients should not be protected from negative information, indicating they have a right to all relevant facts. As a counselor, you will have to evaluate the situation as to how much emphasis should be placed on the negative aspects of your client's condition.

After your client has started to implement a lifestyle change, there should be a strong emphasis on the positive. Emphasize foods to include rather than those that should be avoided. Offer positive reinforcement by acknowledging, praising, and encouraging clients when they make desirable changes, no matter how small.

Effective Education Language

Consider your use of language while giving educational instructions, particularly the use of imperatives. For example, “You should eat more fiber.” “You have to increase your intake of vegetables.” “You ought to reduce your intake of soda.” “You need to start exercising.” Do these statements feel like commands? Imperatives are likely to elicit resistance. People like to believe they have a choice and control over their lives. You want your language to support a desire to make the changes necessary for your client to obtain positive outcomes—not a rebellion.

Table 6.7 Language Shift Ideas

Instead of:	Experiment with Neutral Language:
You <i>should</i> eat less saturated fat.	Those who decrease their saturated fat intake reduce their risk of heart disease.
You <i>need to</i> eat meals at more consistent times.	Eating meals at about the same time every day contributes to more even blood sugars.
You <i>have to</i> limit your carbs at dinner.	My successful clients include about 1 ounce or 1/2 cup of carbohydrates at each meal.
You <i>have to</i> start exercising more often.	Some exercise at least five days a week helps keep blood pressure normal.
You <i>ought to</i> plan menus before going food shopping.	People who shop with a list come home with healthier foods and find they need to go to the market less often.
You <i>need to</i> test your blood sugar at least four times a day.	Those who test at least four times a day find it easier to keep their blood sugar normal.

6.7 Supporting Self-Management

The following sections cover a discussion of various professional issues to consider for providing effective nutrition counseling interventions.

Terminology

Following diet orders has been a challenge since Adam and Eve struggled with the forbidden fruit restriction. Traditionally, adherence or compliance has been defined as following advice, recommendations, diet orders, or a prescribed regimen. Clients were labeled as noncompliant if they did not make the recommended changes. A better definition, reflecting today's cooperative approach toward nutrition counseling, would be to describe the degree to which an individual's dietary behaviors coincide with the dietary objectives as set by clients in collaboration with their health practitioners. This definition takes into consideration a more positive and accurate change process.

Although the words *adherence* and *compliance* are often used interchangeably, the term *dietary adherence* is generally preferable. For many, the word *compliance* conjures up an image of an authoritarian counselor dictating dietary orders and expecting obedience. The Academy of Nutrition and Dietetics uses the term *adherence* in the Nutrition Care Process terminology.³²

Individualization of Therapy

Nutrition counseling should be tailored to meet client needs, goals, and living arrangements to enhance

adherence.^{13,30} Clients want to eat foods that taste good and develop a dietary pattern that can realistically fit into their lifestyle. King and Gibney³⁸ found that dietary advice to lower fat intake was more successful when existing eating frequency patterns were taken into consideration. Dietitians can generally find ways to include favorite foods into a diet pattern. Positive emphasis can be placed on which foods to add or substitute, rather than which foods should be avoided. Evaluation of dietary satisfaction in the Modification of Diet in Renal Disease Study found that study participants who enjoyed eating their diets with the level of protein they were allowed were more likely to adhere to the regimen.³⁹

Generally, gradual stepwise modifications are recommended for changing dietary patterns that will endure. Slower changes allow for nutrition counselors to help tailor adjustments to the taste preferences of clients. However, some highly motivated clients may be capable of making substantial changes. Barnard et al.⁴⁰ reviewed thirty published research trials designed to reduce risk of heart disease and found that studies setting relatively strict limits of fat intake achieved a greater degree of dietary change than those with modest dietary goals. Although food habits are highly resistant to change, it is encouraging that after a new habit has been fully adopted, our taste preferences can change.⁴¹ Frequently, people who follow a sodium-restricted diet come to prefer low-salt foods to higher-salt foods.

Exercise 6.9 Enhancing Learning

Write in your journal what enhances your learning experiences. Identify two things you do to aid your memory. Record your thoughts in your journal.

Length and Frequency of Counseling Sessions

Length of visits and number of sessions needed to produce favorable outcomes vary with complexity of the clients' problems. One study of patients with type

2 diabetes found that any contact with a dietitian produced better medical outcomes than no contact.⁴² More than ten hours of diabetes self-management education increases the likelihood of significant A1C improvement.⁴³ Guidelines for individuals who have disorders of lipid metabolism include three to six visits, lasting from thirty to sixty minutes.⁴⁴

Perception of Quality of Care

Perception of quality of care is highly related to adherence.⁴⁵ A warm, caring environment created by the counselor, staff, and physical setting creates an environment conducive to counseling. Attempts should be made for the same counselor to see a client at each visit.

The exact physical surroundings can vary because nutrition counseling sessions are conducted in a variety of settings, including clinics, private offices, fitness centers, hospital rooms, and worksite locations. Attempt to arrange a meeting place that is attractive, comfortable, quiet, well ventilated, adequately lighted, and private. Be sure sturdy seating is available for large individuals. Do not allow big obstacles, such as a desk, to be a barrier between a counselor and a client. If a desk is a necessity, then have the client sit alongside it, not behind it. If a table is needed to view materials, a round table is preferable because it avoids the head-of-the-table position. Provide an environment as free of distractions as possible. If the meeting place is not ideal, search for innovative ways to rearrange the environment. In a clinic, creative placement of a bookcase or a plant could help define space and give the illusion of privacy. In a hospital room, this may mean pulling a privacy curtain,

asking the client to turn off the television, and pulling a chair near the patient's bed. Every effort should be made not to stand while a client reclines in a bed. If the patient is ambulatory, a conference or counseling room may be available for meetings.

Arrangements should be made so phone calls and staff members do not disturb sessions. If a phone call or a colleague does interrupt a session, make every effort to discontinue the intrusion and then make an apology. Clients should not be made to wait for long periods of time. The health care team can contribute to the perception of care through an interdisciplinary approach. The team should present a single, unified treatment plan and meet on a regular basis to maintain good communication with each other. Sometimes clients will question several health care members about their treatment plan because they want assurance that what they are being asked to do is the best course of action or really necessary.

Nonadherence Counselor Issues

Working with a client who is successfully making healthful lifestyle changes is a joy; however, sometimes clients will not change, leaving the counselor feeling frustrated or even angry. It is irrational thinking on the part of a counselor to assume personal responsibility for a client's inaction. Counselors are there to assist their clients, but clients have the responsibility to make changes.⁴⁶

Changing dietary behavior is a complicated process requiring numerous lifestyle adjustments that often interfere with pleasurable activities and thereby compromise a client's motivational level. A counselor may view the required changes as extremely important, but the

Exercise 6.10 Intervention Strategies for Mary

Complete the following questions after reading the case study on the next page.

1. Complete a Client Concerns and Strengths Log, Lifestyle Management Form 5.6 in Appendix C, for Mary.
2. What are the most crucial factors (barriers) influencing Mary's potential adherences to any plan?
3. What type of food management tool guide (menus and meal plans, MyPlate, DASH food plan, or goal setting) do you think would benefit Mary? Why?
4. What system of tracking do you believe she would select?
5. An assessment would identify educational issues Mary would like to address. What educational materials and interactive experiences would you like to incorporate in counseling sessions with Mary?
6. Would positive or negative educational messages be more appropriate to use with Mary? Explain.
7. Review the following behavior change strategies, indicate for each whether you would consider using the strategy with Mary, and explain why or why not.

Countering
Contracting

Reinforcement (rewards)
Encouragement

Goal setting
Modeling
Problem solving

CASE STUDY 6.1 Mary: Busy Overweight College Student and Mother

Mary is a thirty-four-year-old university student presently carrying twelve credits. She is on campus four days a week from 9:00 a.m. to 2:00 p.m. She is committed to her schoolwork and currently has a 3.4 cumulative average.

Mary is married and has three children ages six, eight, and ten. She wants to be a good role model for her children, setting an example as to the importance of education. Her husband is a pharmaceutical sales representative, and due to the nature of his job he is away from home frequently. This means that the bulk of child care responsibility is hers.

Mary has come to the Lifestyle Management Program seeking assistance for weight loss and because she really does not feel as good as she thinks she should. She is 5 feet, 6 inches tall and weighs 155 pounds. Mary completed a client assessment questionnaire and a food frequency form in advance, and you review them when she arrives. The exploration phase of your interview allows Mary to elaborate on her lifestyle that has created and perpetuated her diet concerns.

Mary is short on time in the morning because she must make her children's lunches, get them dressed, drive them to school, and make a 9:00 a.m. class. She does not eat breakfast until 10:30, when she grabs something in the Student Center. Lunch consists of a vending machine snack that she grabs on her way to the parking lot, and she eats it on the 40-minute drive home. She drives directly to the elementary school to pick up her children, because they do not get bused.

Because she has such small children, Mary feels the need to keep a supply of snack foods on hand. Upon returning home, it is time to oversee her children's homework and give them a snack. By the time Mary starts to make dinner, she is starving and finds herself picking at whatever is around simply to keep her sanity while she is helping with homework and separating some occasional boxing matches. Because her husband is away so frequently, she must clean up the dishes and get the children showered and into bed herself. By the time everyone is settled down and bedtime stories are finished, Mary is exhausted. It is about 9:00 p.m. before she is free to do her own homework and study.

Typically, she first puts in a load of wash and folds the clothes from the dryer, puts on her robe, prepares herself a snack, and settles down to do schoolwork. It is at this time that Mary really feels the loneliness and starts to feel sorry for herself. She expresses dismay that in a few hours she will have to get up and do it all over again. After about an hour of snacking and studying, she puts in some more laundry and heads to bed.

client may not have the same priorities. Counselors need to be willing to accept the motivational level of their clients and work with them accordingly.

Another factor to consider is that sometimes the benefits of an interaction with a nutrition counselor will

not be immediately observable. Sigman-Grant⁴⁷ emphasizes that change involves a series of processes requiring time as an important dimension. The interaction with a nutrition counselor may be one of several important events that eventually leads to a significant change.

KEY TERMS

ABCs of Behavior: antecedent, behavior, and consequence; used to describe behavior chains.

Barriers: obstacles that hinder accomplishment of a goal.

Behavior Chains: a sequence of events that explains recurrence of behavior.

Choose Your Foods: a food management tool that organize foods by their proportions of carbohydrate, protein, and fat.

Cognitions: what and how a person thinks and perceives based on life experiences.

Cognitive Restructuring: challenging destructive thoughts, beliefs, and internal self-talk and substituting self-enhancing cognitions.

Contract: a formal agreement to implement a goal.

Countering: substituting healthy responses for problem behaviors.

Cue Management (Stimulus Control): addresses antecedents of a behavior chain; technique involves using cues to increase or decrease a particular behavior.

Dash Food Plan: food group plan developed to reduce high blood pressure.

Journaling: a tracking method used to analyze and modify behavior.

Modeling: behaviors learned by observing and imitating others.

MyPlate: a nutrition guide published by the U.S. Department of Agriculture, using a familiar meal time visual—a plate and glass divided into five food groups.

Problem Solving: a systematic approach to breaking undesirable behavior chains.

Reinforcement or Rewards: tangible or intangible incentives to encourage a behavior change.

Thought Stopping: a technique using the word *stop* to end destructive reoccurring thoughts.

Tracking: a self-monitoring method.

Two variations are available: Food Lists for Weight Management and Food Lists for Diabetes.

REVIEW QUESTIONS

1. Six food management tools were reviewed in this chapter. Describe the tools and indicate the advantages and disadvantages of each.
2. What are the benefits of tracking food behavior goals?
3. Identify five topics a nutrition counselor can review with a client to provide guidance for record keeping.
4. Explain the ABCs of eating behavior and behavior chains.
5. Identify four factors to consider when guiding clients in the use of rewards.
6. Explain the following behavior change strategies: cue management, countering, rewards, modeling, problem solving, contracting, and encouragement.
7. How does obstacle thinking hamper behavior change?
8. What are cognitive distortions?
9. Explain the integrated approach to learning advocated by Funnell and Anderson.

Answers Exercise 6.7 *Cognitive Distortions included the following: I might as well continue to blow the diet and eat the chocolate. I'll never be able to eat right. This is awful. I am a terrible person. I deserve to have another heart attack. I'm surprised I ate any fruits at all. How did that happen? I should have prepared a lunch. I should have eaten something before I went to the party. I should have eaten more vegetables.*

ASSIGNMENT Food Management Tool Usage

The objective of this assignment is to investigate, develop, and utilize three food management tool options and three tracking methods. You will develop a separate food

plan using each of the following food management tools: MyPlate, DASH Food Plan, and Personal Goal Setting. You will follow each plan for three days and use a coordinated tracking method. This assignment will take nine days to complete. The point of this assignment is not to evaluate your usual diet but to use a tool to design a food plan and then follow that plan. You want to simulate what a client would experience when given instructions to follow a prescribed diet plan. Use the following directions:

Method 1

Food Management Tool: MyPlate

Tracking Method: MyPlate, MyWins! Tracking form

1. Create your MyPlate Plan.

- ❑ Go to <https://www.choosemyplate.gov/MyPlatePlan>
- ❑ To create your plan, first determine your daily calorie needs by entering your gender, activity level, height, and weight.
- ❑ Next click on the calorie level identified as appropriate for you in the calorie chart.
- ❑ Your food group plan will appear on the screen. Click “view as PDF.”
- ❑ You now have a MyPlate Plan and a MyPlate, MyWins! Tracking form.

2. Print at least three copies of the MyPlate My Daily My Wins! Tracking form.

- ❑ Follow your customized food guide, MyPlate Plan, for three days.
- ❑ Record your food group intake by completing the MyPlate MyWins tracking form each day.

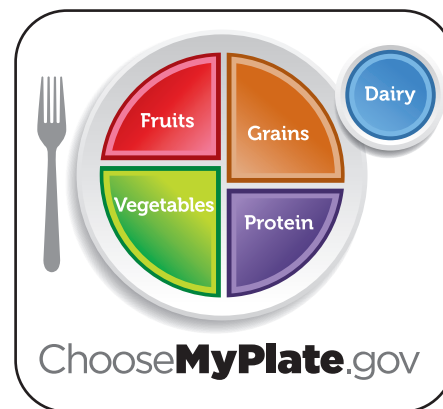


Figure 6.1 Choose MyPlate

Source: Found at <http://myplate.gov/>

Table 6.8 Sample MyPlate Plan for 2,000 Calories

Food Groups	Intake	Emphasis
Fruits	2 cups	Focus on whole fruits: fresh, frozen, or dried
Vegetables	2½ cups	Vary colorful fresh, frozen, and canned. Include dark green, red, and orange choices
Grains	6 ounces	Make half your grains whole grains
Protein	5½ ounces	Vary protein foods: seafood, beans and peas, nuts and seeds, soy foods, eggs, and lean meats and poultry
Dairy	3 cups	Select low-fat or fat-free milk or yogurt and milk substitutes containing a good source of protein and calcium

Method 2

Food Management Tool: DASH Food Plan

Tracking Method: DASH Diet Tracking Form

1. First, go to the Body Weight Planner (niddk.nih.gov/bwp) to determine your daily calorie needs.
2. Next go to the National, Heart, Lung, and Blood Institute (NHLBI) website and search for “What’s on Your Plate?”
3. Select the worksheet that meets your calorie needs and print three copies. The worksheet has the recommended number of food group servings for your calorie needs. Explanations of serving sizes accompany the worksheet.
4. Follow the food guide on the worksheet and track your intake for three days on the worksheet.

Method 3

Food Management Tool: Goal Setting Tracking Method: Personal Creation

1. **Design a Goal.** Review the goal-setting process described in Chapter 5, and design a food goal that meets the SMART criteria described in Table 5.1.
2. **Create a Tracking Method.** Create your own tracking method, such as marks in a calendar, tear-off stubs

of a sticky note, or empty fruit bowl. Hand in a copy of your method or include a photo of your tracking method with your final report.

3. Follow Your Plan for Three Days. Describe your progress in meeting your goal for each of the three days in your final report.

Write an Evaluation

Write an evaluation of your experiences and illustrate that you thoroughly analyzed your experiences using each food management tool. Your explanations should be insightful and give supportive evidence from your personal experiences. Also, you should hypothesize what others who do not have a background in nutrition studies or a passion for wellness might feel about using these tools. Use the following guide to write an evaluation:

- a. Write a short summary of the experience using each method.
- b. Describe the advantages and disadvantages of each eating plan guide.
- c. Describe the advantages and disadvantages of each tracking method.
- d. What barriers did you encounter in trying to achieve your dietary objectives?
- e. What did you learn from this experience?

ADDITIONAL RESOURCES

Weight Loss Program

Lifestyle Balance Manuals/Diabetes Prevention Program, <http://www.bsc.gwu.edu/dpp/manuals.html#doc>. Sixteen-week weight-loss behavior management program; treatment manuals, and participant handouts.

Meal Plans and Recipes

USDA's Nutrition and Weight Management website. Provides information about shopping tips, recipes, and menu makeovers. www.nutrition.gov

Oldways Preservation and Exchange Trust. Provides menus and information about ethnic diets. www.oldwayspt.org

Food Guides

Choose Your Foods: Food Lists for Weight Management, 5th ed. This booklet can be ordered from the American Diabetes Association: www.shopdiabetes.org.

Your Guide to Lowering Your Blood Pressure with DASH. National Heart Lung and Blood Institute (NHLBI) website. http://www.nhlbi.nih.gov/files/docs/public/heart/hbp_low.pdf

MyPlate. Website provides a host of nutrition information as well as a personalized food guide. www.MyPlate.gov

Self-Help Resource

Katz D. *The Way to Eat: A Six Step Path to Lifelong Weight Control.* A comprehensive guide to a lifetime of eating well in support of three goals: overall good health, weight control, and enjoyment of food. Order from Academy of Nutrition and Dietetics: www.eatright.org.

REFERENCES

- ¹J. Y. Tsoh, J. B. McClure, K. L. Skaar, et al., Components of effective intervention. *Behav Med.* 1997; 23:15–28.
- ²X. Guo, Y. Xu, H. He, et al., Effects of a meal replacement on body composition and metabolic parameters among subjects with overweight or obesity. *J Obes.* 2018; 2018:2837367.
- ³S. B. Heymsfield, Meal replacements and energy balance. *Physiol Behav.* 2010; 100:90–94.
- ⁴G. R. Dutton and C. E. Lewis, The Look AHEAD Trial: Implications for lifestyle intervention in type 2 diabetes mellitus. *Prog Cardiovasc Dis.* 2015; 58:69–75.
- ⁵A. N. Fabricatore, Behavior therapy and cognitive-behavioral therapy of obesity: Is there a difference? *J Am Diet Assoc.* 2007; 107:92–99.
- ⁶L. Bacon and L. Aphramor, Weight science: Evaluating the evidence for a paradigm shift. *Nutr J.* 2011; 10:69–82.
- ⁷L. E. Berke, J. Wang, and M. A. Sevvick, Self-monitoring in weight loss: A systematic review of the literature. *J Am Diet Assoc.* 2012; 111:92–147.
- ⁸R. C. Baker and D. S. Kirschenbaum, Self-monitoring may be necessary for successful weight control. *Behav Ther.* 1993; 24:377–394.
- ⁹K. J. Streit, N. H. Stevens, V. J. Stevens, et al., Food records: A predictor and modifier of weight change in a long-term weight loss program. *J Am Diet Assoc.* 1991; 91:213–216.
- ¹⁰J. Harvey, R. Krukowski, and J. Priest, Log often, lose more: Electronic dietary self-monitoring for weight loss. *Obesity.* 2019; 27:380–384.
- ¹¹E. Jago, A. Gauthier, A. Pegoraro, et al., An assessment of the validity of an audio-video method of food journaling for dietary quantity and quality. *J Nutr Metab.* 2019; 2019: 9839320.
- ¹²K. Glanz, G. Greene, and J. E. Shield, Understanding behavior. In American Dietetic Association. *Project Lean Resource Kit.* Chicago: American Dietetic Association, 1995:142–189.
- ¹³A. Caban, P. Johnson, D. Marseille, et al., Tailoring a lifestyle change approach and resources to the patient. *Diabetes Spectrum.* 1999; 12:33–38.
- ¹⁴Academy of Nutrition and Dietetics. *International Dietetics & Nutrition Terminology (IDNT) Reference Manual Standardized Language for the Nutrition Care Process.* 4th ed. Chicago: Academy of Nutrition and Dietetics; 2013.
- ¹⁵J. O. Prochaska, J. C. Norcross, and C. C. DiClemente, *Changing for Good.* New York: Avon, 1994.
- ¹⁶S. Cormier, S. Cormier, P. S. Nurius, et al., *Interviewing and Change Strategies for Helpers.* 8th ed. Boston, MA: Cengage Learning, 2016.
- ¹⁷J. M. Spahn, R. S. Reeves, K. S. Keim, et al., State of the evidence regarding behavior change theories and strategies in nutrition counseling to facilitate health and food behavior change. *J Am Diet Assoc.* 2010; 110:879–891.
- ¹⁸L. G. Snetselaar, *Nutrition Counseling Skills for Medical-Nutrition Therapy.* Gaithersburg, MD: Aspen, 1997.
- ¹⁹R. Lappalainen, M. Koikkalainen, J. Julkunen, et al., Association of sociodemographic factors with barriers reported by patients receiving nutrition counseling as part of cardiac rehabilitation. *J Am Diet Assoc.* 1998; 98:1026–1029.
- ²⁰Academy of Nutrition and Dietetics. Position of the Academy of Nutrition and Dietetics: Total diet approach to healthy eating. *J Acad Nutr Diet.* 2013; 113:307–317.
- ²¹J. Iszler, S. Crockett, L. Lytle, et al., Formative evaluation for planning a nutrition intervention: Results from focus groups. *J Nutr Ed.* 1995; 27:127–132.
- ²²S. J. Danish and I. Laquatra, *Working with Challenging Clients.* Chicago: American Dietetic Association, 2004.
- ²³R. E. Glasgow, D. J. Tooberi, D. L. Mitchell, et al., Nutrition education and social learning interventions for type II diabetes. *Diabetes Care.* 1989; 12:1105–1110.
- ²⁴A. M. Kiy, Cognitive-behavioral and psychoeducational counseling and therapy. In K. K. Helm and B. Klawitter, eds., *Nutrition Therapy Advanced Counseling.* Lake Dallas, TX: Helm Seminars, 1995:135–154.
- ²⁵S. Shiffman, J. A. Paty, M. Gnys, et al., First lapses to smoking: Within subjects analysis of real-time reports. *J Consult Clin Psychol.* 1996; 64:366–379.
- ²⁶C. P. Neck and W. H. Barnard, Managing your mind: What are you telling yourself? *Educational Leadership.* 1996; 53:24–27.
- ²⁷G. Corey, *Theory and Practice of Counseling and Psychotherapy.* 9th ed. Belmont, CA: Brooks/Cole, 2013.
- ²⁸A. Ellis and R. A. Harper, *A Guide to Rational Living.* Hollywood, CA: Melvin Powers Wilshire; 1997.
- ²⁹K. D. Brownell and R. Cohen, Adherence to dietary regimens: Components of effective intervention. *Behav Med.* 1995; 20:155–165.
- ³⁰E. Trudeau and L. Dube, Moderators and determinants of satisfaction with diet counseling for patients consuming a therapeutic diet. *J Am Diet Assoc.* 1995; 95:34–39.
- ³¹D. M. Nathan, The Diabetes Control and Complications Trial/ Epidemiology of Diabetes Interventions and Complications Study at 30 Years: Overview. *Diabetes Care.* 2014; 37: 9–16.
- ³²Academy of Nutrition and Dietetics. *Abridged Nutrition Care Process Terminology (NCPT) Reference Manual.* 2017 ed. Chicago: Academy of Nutrition and Dietetics, 2018.
- ³³J. Beck, D. A. Greenwood, L. Blanton, et al., 2017 National Standards for Diabetes Self-Management Education and Support. *Diabetes Care.* 2017; 40:1409–1419.
- ³⁴M. M. Funnell and R. M. Anderson, Putting Humpty Dumpty back together again: Reintegrating the clinical and behavioral components in diabetes care and education. *Diabetes Spectrum.* 1999; 12:19–23.
- ³⁵E. Gehling, *Model Program: Promoting Lifestyle Behavior Changes—A Counseling Approach.* University of Minnesota Educational Videos from the 1999 National -Maternal Nutrition Intensive Course. Minneapolis: University of Minnesota School of Public Health, 1999.

- ³⁶M. Kellogg, Tip #39 Imperative Language. *Counseling Tips for Nutrition Therapists: Practice Workbook, Vol. 2*. Philadelphia, PA: Kg Press, 2009.
- ³⁷International Food Information Council. How Consumers Feel about Food and Nutrition Messages. February 2002. Available at <https://foodinsight.org/how-consumers-feel-about-food-and-nutrition-messages/>. Accessed June 4, 2019.
- ³⁸S. King and M. Gibney, Dietary advice to reduce fat intake is more successful when it does not restrict habitual eating patterns. *J Am Diet Assoc.* 1999; 99:685–689.
- ³⁹T. Coyne, M. Olson, K. Bradham, et al., Dietary satisfaction correlated with adherence in the Modification of Diet in Renal Disease Study. *J Am Diet Assoc.* 1995; 95:1301–1307.
- ⁴⁰N. D. Barnard, A. Akhtar, and A. Nicholson, Factors that influence compliance with low-fat diets. *Arch Fam Med.* 1995; 4:153–158.
- ⁴¹L. Methven, E. Langreny, and J. Prescott, Changes in liking for a no added salt soup as a function of exposure. *Food Qual Prefer.* 2012; 26:135–140.
- ⁴²M. J. Franz, P. L. Splett, A. Monk, et al., Cost-effectiveness of medical nutrition therapy provided by dietitians for persons with non-insulin-dependent diabetes mellitus. *J Am Diet Assoc.* 1995; 95:1018–1024.
- ⁴³C. A. Chrvala, D. Sherr, and R. D. Lipman, Diabetes self-management education for adults with type 2 diabetes mellitus: A systematic review of the effect on glycemic control. *Patient Educ Counsel.* 2016; 99: 926–943.
- ⁴⁴Academy of Nutrition and Dietetics and Evidence Library. Available at: <http://www.andeal.org/splash>. Accessed: June 4, 2019.
- ⁴⁵A. W. Caggiula and J. E. Watson, Characteristics associated with compliance to cholesterol lowering eating patterns. *Patient Educ Counsel.* 1992; 19:33–41.
- ⁴⁶L. M. Siminerio, Defining the role of the health education specialist in the United States. *Diabetes Spectrum.* 1999; 12:152–157.
- ⁴⁷M. Sigman-Grant, Change strategies for dietary behaviors in pregnancy and lactation. *University of Minnesota Educational Videos from the 1999 National Maternal Nutrition Intensive Course*. Minneapolis: University of Minnesota School of Public Health, 1999.

7

Making Behavior Change Last



Monkey Business Images/Shutterstock.com

Learning Objectives

- 7.1** Explain significance of social support.
- 7.2** Suggest ways significant others can support clients.
- 7.3** Explain usefulness of social disclosure.
- 7.4** Explain the importance of addressing sleep for nutrition counselors.
- 7.5** Develop mental imagery and role-playing skills.
- 7.6** Describe possible responses to stress.
- 7.7** Distinguish three general categories of stress management strategies.
- 7.8** Describe the basics of stress management counseling.
- 7.9** Describe the basic components of relapse prevention counseling.
- 7.10** List immediate determinants and covert antecedents of relapse.
- 7.11** Describe procedures for providing a smooth transition to ending a counseling relationship.
- 7.12** Identify ways to evaluate counseling effectiveness.

Look to this day!
For it is life, the very life of life.
In its brief course
Lie all the verities and realities of your existence:
The bliss of growth;
The glory of action;
The splendor of achievement;

For yesterday is but a dream,
And tomorrow is only a vision;
But today, well lived, makes every yesterday
A dream of happiness, And every tomorrow a
vision of hope.
Look well, therefore, to this day!

—KALIDASA

This chapter places emphasis on strategies to support lifestyle changes. Because humans are social beings by nature, our social environment can help or hinder our behavior change efforts. This chapter explores ways to encourage social support and minimize social hindrances to making lifestyle changes. Stress is inevitable, but the way an individual handles stress can impact behavior change efforts as well as a possible relapse. We cover how components of stress management counseling can be incorporated into a nutrition counseling intervention. Mindfulness as an approach to enhance quality of life has been taught for centuries. However, only recently has the approach been applied to changing food behaviors. We explore the basic tenets of mindful eating. Also the health community is now focusing on sleep as an important lifestyle factor for overall health and weight management. We will discuss how this topic can be addressed in nutrition counseling. Then, we cover factors to consider when bringing closure and ending a counseling relationship. As the Academy of Nutrition and Dietetics' Nutrition Care Process mandates, monitoring and evaluation of nutrition interventions are extremely important. Methods of monitoring counseling progress and evaluating outcomes are addressed.

Anecdote

One of my clients was an elderly female who had kidney disease and had a number of factors in her diet that had to be monitored. It was my responsibility to design a discharge diet plan for her. She was a very nice person, but she told me she would never be able to understand the diet because she had never been good with numbers. We scheduled to have her son meet with us for another time and all together we designed a detailed food plan.

7.1 Social Network

Because the act of eating is often a social activity, either as an element of daily life or an integral part of special events, a client's social environment can have a significant impact on attempts to change eating behavior. In addition to the actual eating experience, social factors are likely to play a role concerning availability, procurement, selection, and preparation of food.¹ Social context is a component of several behavior change theories. Recognizing the impact of the social atmosphere, the Academy of Nutrition and Dietetics provides a definition of social network in the assessment and monitoring and evaluation component of the Nutrition Care Process: "Ability to build and utilize a network of family, friends, colleagues, health professionals, and community resources for encouragement, emotional support and to enhance one's environment to support behavior change."² The people closest to a person making dietary lifestyle changes will be affected by new behavior patterns and in return can exert a powerful influence on

your client. The changes often put a stress on the dynamics of a household. For example, a Friday night activity may have been to eat fried fish at a certain restaurant that only serves fried food. If a client needs to avoid this type of food, family members may resent a change in the family pattern. In conditions where a client has many lifestyle change requirements, the feelings of resentment are likely to mount. One way of helping dispel negative feelings is by involving people closest to your client in your counseling sessions.

Social Support

I get by with a little help from my friends.

—BEATLES

Encouraging family and significant others to provide a supportive environment has been shown to have a ben-

eficial effect on dietary change objectives.³ In one study in an acute inpatient hospital setting, a family or friend acted as a "care partner," resulting in increased patient and family satisfaction and adherence to the patient's medical regimen.⁴ Also successful was a program that actively involved family and was designed to improve glycemic control and reduce use of glucose lowering medication.⁵ Perceived family support for adolescents' diabetes

care has been shown to increase adherence to health care protocols.⁶ One explanation for the positive effects of social support on health is that clients perceive a sense of support from others, leading to a feeling of a more generalized sense of control. A greater sense of control often results in an increase in self-efficacy.

When meeting with family members or significant others, nutrition counselors can provide information, explore potential stress that the new food pattern could put on family interactions, and suggest ways in which family members can be supportive. Possible topics for discussion are presented in Exhibit 7.1.

Direct involvement with a client's social network is not always possible. In any case, clients should be encouraged to be vocal and request support for cooperation and assistance from their family and friends. Clients could approach potential supporters and cover any of the topics reviewed in Exhibit 7.1. To keep a social environment conducive to change, counselors should remind clients to thank others for their involvement.

If your clients do not have readily available support in their immediate environment, possible

Exhibit 7.1 Social Support Discussion Topics

- Inquire about any concerns or questions family members have about your client's dietary needs.
- If reasonable, invite family members to participate in the dietary changes and explore new tastes.
- Ask whether there are times when the new diet pattern is likely to cause unusual stress.
- Explore willingness of family members to show support for your client.
- Suggest ways in which family members can support your client.
- Help keep undesirable foods out of sight to avoid tempting cues.
- Purchase foods to be avoided in varieties client does not like (for example, an ice cream flavor client is unlikely to eat).
- Do not give foods to be avoided as gifts.
- Think of creative ways of celebrating a holiday or a birthday. For example, fresh fruit, gelatin, and fat-free sherbet can be quickly and attractively arranged on a plate for fat-free celebrations. Candles can even be placed in the composition.
- Show support:
 - Offer praise when desirable behavior is observed.
 - Express appreciation for the accomplishment of difficult tasks (such as taking blood sugar for the first time).
 - Provide preplanned or surprise rewards, such as hugs, gifts, or back rubs.
 - Brag to others about positive behavior changes.
- Show patience for extra time needed to calculate or prepare foods.
- Offer help to plan ahead when visiting or going on trips. Avoid teasing or tempting with foods that need to be avoided.
- Avoid scolding, nagging, preaching, and embarrassing. Although such behavior may be well intentioned, the overall effect is destructive.
- Do not give criticism unless there have been three compliments.⁵
- Use positive statements about the new food pattern; avoid using the words *strange* or *different* to describe foods on the pattern. A motivated family member may be willing to keep a record of positive and negative statements regarding the new dietary pattern.

Source: Raab, C., Tillotson, J. L., eds., *Heart to Heart*. DHHS (PHS) publication 83-1528. Washington, DC: U.S. Department of Health and Human Services, 1983; Prochaska, J. O., Norcross, J. C., DiClemente, C. C., *Changing for Good*. New York: Avon, 1994.

alternatives can be explored. The following list contains some suggestions:

- **Locate a distant support buddy.** Possibly a relative, associate, or friend in a distant location could be involved through telephone conversations, email, or text messaging.
- **Join clubs or organizations.** Clients may obtain direct or indirect support by taking part in organizations compatible with their lifestyle goals. This may include joining a walking club, gym, dance troop, or vegetarian society.

Anecdote

One of my clients was a pleasant, overweight teenage girl. She was anxious to lose weight, but her mother seemed to sabotage her daughter's attempts by baking her favorite cakes, keeping the kitchen stocked with high-fat foods, and encouraging her daughter to eat. When her mother came to one of our sessions, she admitted that this was a problem. Although her mother loved her daughter, she voiced her fear that her daughter would become thin, be attractive to men, get married, and leave her. Eventually her mother agreed to go to a psychotherapist.

- **Locate a social support group.** Social support groups have been found to be effective components of behavior change interventions.⁷ Available social support can be explored in local medical centers as well as the Internet, where interactive forums may be available. Perceived social support has been found to increase with Internet social support interventions.⁸ Encourage your clients to become active in support groups by taking on responsibilities such as organizing a meeting, writing a newsletter, or volunteering for a committee. Active involvement increases commitment and expands the likelihood of making connections to others.

Exercise 7.1 Social Support Survey

Find two people who have made or attempted to make a lifestyle change who believe their social environment had an impact on their efforts. Ask your interviewees to describe the impact of others on their behavior change efforts.

- Did your interviewees describe the actions of significant others as social supporters or non-supporters?
- Specify what the significant others did to help or hinder the situation. Record these behaviors in your journal.

- **Take classes.** Classes related to your client's condition may be available in community education programs, supermarkets, or health centers. By taking part in these programs, clients enhance their skills and make contacts that can support their behavior change endeavors.

Social Disclosure

Closely related to social support is the concept of **social disclosure**. Disclosure of behavior records and progress in meeting goals to peers or professionals has been shown to exert a powerful influence in changing

behavior.⁹ Even announcing the intent to engage in a new behavior can have a significant influence. Regular disclosure can be done formally in a weekly meeting with support buddies or informally during walks or while eating lunch with friends.

Social Pressures

A client's immediate social environment can sometimes exert a negative influence on eating behavior. If so, seek ways to reduce the impact without causing undue social stress. Sometimes this involves assertive behavior, such as suggesting an alternative restaurant, calling a host ahead of time to discuss potential problems, or offering to

bring a vegetable platter to a social function. Scenarios for dealing with difficult issues can be developed in counseling sessions through role playing, microanalysis of the scenario, or mental imagery.

Role Playing This strategy can effectively prepare clients for behavior change. For role playing to be an

Anecdote

One of my clients was a busy professional who could not easily see how she could join a support group without putting additional stress in her life. However, she did feel that social disclosure would benefit her attempts to change her eating and exercise behavior. Her solution was to post her eating and exercise records each day in her office. Periodically throughout the day someone would inquire about the records, and this would precipitate supportive short conversations.

effective tool, a secure relationship should have been established with your client. Therefore, it is usually not advisable to use this technique during the first session. See Table 7.1 for role-playing guidelines.

Table 7.1 Role-Playing Guidelines

Prepare for the Role Play	<ul style="list-style-type: none"> • Analyze the concern, discuss possible scenarios to handling a situation, and decide on the best course of action. • Explain the goals and objectives of role playing. Usually that means preparing for a difficult encounter. • Assign roles. • Set time limits. Generally you do not want role playing to go more than five minutes; in fact, an effective role play can be as short as two minutes. You want to leave time for processing the experience.
Enact the Role Play	<ul style="list-style-type: none"> • Arrange chairs for appropriate interaction. • As a counselor, you take on the role of one or more of the characters, and your client plays himself or herself. If you believe there is a benefit to modeling a certain behavior, the role play of a scenario could be done twice—once with you taking on the role of the client and a second time with the client playing himself or herself. See Exhibit 7.2 for a role-play example. • Stop the role play in five minutes or less.
Process the Experience	<ul style="list-style-type: none"> • Ask your client these questions: What went well? What could have been done differently? How did you feel about the interaction? What may happen differently in the actual situation? Do you feel confident about how you will handle this situation when you encounter this problem? • Provide feedback. Your comments should always be supportive and positive. For example, "It was really good that you . . ." If you have suggestions, they should be prefaced with tentative remarks, such as "You might try . . ." or "You could consider . . ."

Exhibit 7.2 Role-Play Example

Problematic Scenario

- **Mother-in-law:** You are coming for our beefsteak dinner on Sunday, right?
- **Client:** I can't eat beefsteak—didn't John tell you?
- **Mother-in-law:** Yes, but surely you can cheat once in a while. There is nothing like beefsteak dipped in melted butter.
- **Client:** No, I can't! If you find it to be a problem that I can't eat beefsteak, then I will just stay home.
- **Mother-in-law:** I don't understand why you can't just let this be a pleasant family get-together. It isn't like you are going to die if you eat it.

Effective Scenario

Setup: Client needs to establish control. Statements or arguments to be used must make sense to the mother-in-law. When dealing with difficult people, *blending* is an initial effective behavior. This involves agreeing on common ground.

- **Mother-in-law:** You are coming for our beefsteak dinner on Sunday, right?
- **Client:** That is wonderful of you to invite us, but I can't eat beefsteak. I have to try to get my cholesterol down.
- **Mother-in-law:** Yes, but surely you can cheat once in a while. There is nothing like beefsteak dipped in melted butter.
- **Client:** Well, beefsteak sure sounds delicious, and I guess I could cheat, but I really don't want to. I have three months to try to get my cholesterol down with my diet. I don't want to end up like Aunt Joan with all her heart problems. Or become a burden to John and the kids. Maybe I can bring a platter of grilled vegetables, and then I can come and enjoy?
- **Mother-in-law:** Well, that sounds good, too. I must say you have more willpower than I do. You bring your grilled vegetables, and I can throw in some chicken, too.

Microanalysis of the Scenario This method is used to talk through an anticipated experience, identifying as many contingencies as possible, and deciding on the best response. The following are examples of questions that could help lead the way in anticipation of a telephone call, as illustrated in Exhibit 7.2:

- Where will you be when you make the phone call? What do the surroundings look like? What will be going through your head?
- What will you say to approach the topic of dinner on Sunday night?
- What will you say about cholesterol levels?
- What do you believe will be your mother-in-law's response?
- What do you want your mother-in-law to feel?

Mental Imagery A common technique for developing new behavior patterns, **mental imagery** involves a mental rehearsal of an anticipated experience. Clients imagine themselves thinking, feeling, and behaving in precisely the way they would like in the actual situation. Counselors can help their clients reconstruct a past or potential scene in their minds and play out the scenario with a desirable ending. After microanalyzing the scenario, clients can be asked to close their eyes

Exercise 7.2 Practice Using Microanalysis and Mental Imagery

Practice microanalysis and mental imagery with a colleague. Each should select an anticipated encounter, preferably an uncomfortable one, and take turns assuming the role of counselor.

- ❑ Record your experiences and impression of the technique in your journal.

and play out the scene in their minds. After they have completed the exercise, ask whether any new concerns came to mind. Clients should be encouraged to do this activity several times before the actual encounter, thereby allowing them to practice their responses several times.

7.2 Stress Management

Rule Number 1: Don't sweat the small stuff.

Rule Number 2: It's all small stuff.

—ROBERT ELIOT, M.D.

Although stress is a normal part of life and can serve as a positive force to stimulate performance, too much stress can harm health and impair attempts to make lifestyle

changes. Because food is often used to provide nurturing and stress reduction, especially for women, finding alternative methods of coping with stress is important.¹⁰ Also, stress has been found to be a major predictor of relapse, overeating, and dysfunctional eating patterns^{11,12} and is linked to six leading causes of death: heart disease, cancer, lung ailments, accidents, cirrhosis of the liver, and suicide.¹³

Dr. Hans Selye, the scientist credited with identifying the link between health and stress, defined *stress* as a nonspecific response of the body to threats or requirements for action or change.¹⁴ The response is considered nonspecific because various physical, mental, and emotional factors could be affected. The physiological response stems from the stimulation of the hypothalamus from an imagined or real threat.¹⁵ The hypothalamus activates the sympathetic nervous system to increase heart rate and blood pressure in order to deliver extra nutrients to muscles and the brain. Also, blood sugar and lipids rise to meet the anticipated increase in needs for energy, while breathing accelerates to supply extra oxygen for energy metabolism. Blood supply is diverted from the skin to large muscle groups. The release of stress hormones from the adrenal glands prepares the body to be on a heightened alert to make a quick response by shutting down tissue repair, digestion, reproduction, growth, and immune and inflammatory responses. The body prepares for fight or flight. The observable symptoms can include sweaty palms, rapid breathing, dilated pupils, dry mouth, nervous or shaky speech, crying, and a feeling of butterflies in the stomach or heart in the throat.¹⁶ If the stress response is continually being triggered, there is a negative effect on the mind, body, and quality of life, increasing the likelihood of developing one or more of the eight physical indicators of stress (see Exhibit 7.3). However, our bodies have a countering mechanism available that turns

off the stress response and allows all systems to return to their normal state. Herbert Benson¹⁷ refers to this natural restorative process as “the relaxation response.” See Exercise 7.4 to practice using one of Benson’s techniques.

Major life changes, whether positive or negative, are stressful events because they often require a series of new adjustments. Life-changing events include change in marital status, job status, financial status, birth or adoption of a child, death of a loved one, new residence, caring for a loved one with a debilitating illness, and diagnosis of a serious illness. In addition to major life events, the National Institute of Mental Health has identified ten common sources of stress (see Exhibit 7.4). Recent research regarding increased cortisol levels among individuals following low-calorie diets (1,200 kcal) and increases in perceived stress for individuals monitoring calorie intake has created concerns and discussions among health professionals.^{18,19} In contrast, one study of overweight individuals found that calorie restriction does not necessarily cause stress or, therefore, increased cortisol levels.²⁰ However, what is considered stressful for one person may not be for another because perceptions of events and conditions differ among individuals. This point is illustrated by stage-of-life data. American adults usually cite work, finances, health care, and the economy as their top stressors, while teenagers are likely to select school, gaining acceptance into college, and family money issues.²¹ Even within the same age category, differences exist as to appraisal of a situation as stressful. Stressed individuals are more likely to see difficulties as dangerous, difficult, or painful and are not likely to have the resources to cope with a problem.

Exhibit 7.3 Indicators of Stress

1. Increases in blood pressure
2. Suppressed immunity
3. Increased fat around the abdomen
4. Bone loss
5. Increases in blood sugar
6. Increased levels of cortisol
7. Weaker muscles in the abdomen
8. Increases in blood cholesterol levels

Source: McEwen, B. S. Protective and damaging effects of stress mediators. *New England Journal of Medicine*. 1998; 338:171–179.

Exhibit 7.4 Ten Common Sources of Stress

1. Overscheduled daily calendars
2. Job stress and demands
3. Lack of play and downtime
4. Lack of time with family, friends, and significant other
5. Inequity in home responsibilities
6. Lack of time to explore own interests
7. Guilt (about everything)
8. In families: children’s behavior and how to discipline
9. Lack of time
10. Lack of money

Source: Bradlye, A. C., *Under Pressure: Identifying and Coping with Stress*. American Fitness, 1997; 15:26–33. © 2000 Aerobics and Fitness Association of America.

Table 7.2 Strategies to Reduce Stress

Category	Description	Strategies
Environmental Focus	Remove or reduce exposure to specific stressors Strategies are problem-focused	Planning ahead, cue management, time management, skills for convenient food preparation, social support, guidance for healthy eating on the run, assertiveness training, conflict management, communication skills, and engaging in distracting behaviors, such as doing puzzles
Physiological Focus	Strategies address the physiological response	Meditation, the relaxation response, visual imagery, soothing music, prayer, humor, emotion-focused coping, breathing exercises, exercise, and biofeedback
Cognitive Focus	Strategies deal with cognitive coping skills	Cognitive restructuring and self-acceptance

Stress management techniques have been successfully employed to enhance dietary lifestyle changes and to improve health.^{22,23} Intervention strategies addressing these objectives can be divided into three general focus areas: environmental, physiological, and cognitive. See Table 7.2.

Stress Management Counseling

A crust eaten in peace is better than a banquet partaken in anxiety.

—AESOP'S FABLES

As a nutrition counselor, you cannot possibly be an authority on all stress reduction methods. However, you can educate clients on the impact of stress on behavior change objectives, explore stress as an issue in your clients' lives, assist them in identifying stressors, provide information about possible stress reduction techniques, help clients locate stress reduction resources, and aid in developing stress-reducing behavior change goals. You may consider obtaining training in some of the stress management techniques²⁴ or acquiring expertise in stress inoculation, a comprehensive approach to stress management.²⁵ Table 7.3 provides general guidelines for addressing stress management in a nutrition intervention.

Table 7.3 Stress Management Counseling Guidelines for Nutrition Interventions

Category	Description	Example
• Furnish information about the impact of stress on behavior change objectives.		
Explain reaction to stress	Review two major components of stress: physiological arousal and internal monologue or thoughts that provoke anxiety, hostility, or pain.	Counselor: <i>When you feel stressed, two things are going on simultaneously. Physically your heart pounds, hands sweat, breathing rate increases, and you are likely to feel tightness in your muscles. Mentally your thoughts and self-talk are either intensifying the physical arousal with self-destructive statements, such as "I'm washed up," or they are providing tension reducing counsel, such as "I have learned a lot from this situation."</i>
Explain impact of stress on food behavior	Provide information on the desire to use food to reduce stress.	Counselor: <i>Stress is an issue in many people's lives. It can severely affect health and impair attempts to change food behavior. We may be consciously or unconsciously looking for ways to calm down. Many of us naturally turn to food because we learned to associate it with nurturing.</i>

(continued)

Table 7.3 Stress Management Counseling Guidelines for Nutrition Interventions *(continued)*

Category	Description	Example
• Investigate clients' stress issues.		
Review symptoms of stress	Review Lifestyle Management Form 7.1 (Appendix C), Symptoms of Stress.	Counselor: <i>Stress and our reactions to stress can become so common in our lives that we may not realize that they present us with problems. By looking over this list, you may be able to evaluate if stress is adversely affecting you.</i>
Investigate what is causing stress	Sometimes people are aware of feeling stressed, but are not aware of the causes of their stress. Use Stress Awareness Journal, Lifestyle Management Form 7.2 (Appendix C).	Counselor: <i>You indicated that you believe you are eating in reaction to stress, but you are not aware of the triggers. How do you feel about using this form to record your stress throughout the day for a few days?</i>
• Explore possibilities for reducing stress.		
Discuss methods and resources	Discuss possibilities of reducing, minimizing, mastering, or tolerating stress. See Table 7.2. If appropriate, explore options by reviewing Tips to Reduce Stress, Lifestyle Management Form 7.3 (Appendix C).	Counselor: <i>It appears that stress is hampering your ability to make changes. Would you like to explore ways to reduce the amount of stress you are experiencing?</i>
Provide your client with community resource options	You need to have available a list of community resources and local referrals.	Counselor: <i>It appears that stress is hampering your ability to make changes. Are you interested in exploring community resource options?</i>
Recommend books or Internet sites	Several excellent self-help books and Internet sites are available for dealing with stress reduction. See the end of the chapter for a list of resources.	Counselor: <i>It appears that stress is hampering your ability to make changes. Would you be interested in looking at some self-help books or Internet sites?</i>
• Set behavior change goals that address stressors. (See Chapter 5.)		

Exercise 7.3 Measure and Evaluate Your Level of Stress

- ☐ First measure your level of stress by taking the Social Readjustment Rating Inventory (Holmes and Rahe Stress Scale).²⁶ Go to the following website: <https://www.stress.org/test/the-holmes-rahe-life-stress-inventory>
- ☐ Then evaluate using the following interpretation:
 - 11–150 You have only a low to moderate level of stress
 - 150–299 You have a moderate to high level of stress
 - 300–600 You have a high or very high level of stress.
- ☐ Look over the symptoms of stress listed in Lifestyle Management Form 7.1 (Appendix C).
- ☐ Identify any that apply to you and record them in your journal. In the chapter assignment, you will compare these impressions to your stress record findings.

Exercise 7.4 Practice Eliciting the Relaxation Response

1. Select a focus word, phrase, or prayer, such as “one,” “peace,” or “The Lord is my shepherd.” You could also focus on your breathing.
2. Sit in a comfortable position in a quiet location.
3. Close your eyes.
4. Deeply relax your muscles. Begin with your feet and progress to your face. Relax your tongue to encourage your thoughts to fade away.
5. Breathe slowly and naturally through your nose. Say your soothing focus word, phrase, or prayer silently to yourself as you exhale.
6. Do not worry about how you are doing. Maintain a passive attitude. Do not dwell on thoughts. Think “Oh well,” and return to your focus.
7. Continue for 12 to 15 minutes. Open your eyes to check the time. Do not use an alarm.
8. When you finish, sit quietly with your eyes closed for one minute allowing your thoughts to return. Then open your eyes and sit quietly for another minute before standing.
9. With practice, the response should come with little effort. Perform the technique once or twice daily, but not within two hours after any meal, since the digestive processes interfere with eliciting the relaxation response.

In your journal provide your thoughts about your experience with the process of eliciting the relaxation response.

Source: Benson, H., Proctor, W. *Relaxation Revolution*. New York: Scribner, 2010.

7.3 Sleep Counseling

As the evidence has grown regarding the effect of sleep quality and duration on weight and health, nutrition professionals are urged to address sleep in lifestyle modification interventions.²⁷ Inadequate sleep is associated with a host of health problems including weight gain, cardiovascular disease, type 2 diabetes, heightened emotional reactivity, and reduced attention, memory, and executive cognitive function. Specifically immune system imbalances and an increase in inflammation markers have been found.²⁸ The average nightly sleep duration in U.S. adults is 6 h and 31 min and is significantly lower than the recommended 7 h and 13 min.²⁹

Several lifestyle factors are associated with sleep difficulties. These include electronic media exposure, caffeine and alcohol consumption, cigarette smoking, exposure to bright lights during dark night hours, and timing of sleep. Four or more screen hours are associated with numerous sleep problems including nighttime awakening and sleepiness during the day.³⁰ Caffeine increases alertness by antagonizing adenosine receptors, a chemical that promotes sleep.³¹ Studies show that people who drink alcohol are more likely to have poorer quality sleep than non-alcohol consumers.²⁷ Both first- and second-hand cigarette smoke adversely affect sleep duration and quality.²⁷ Bright light decreases melatonin secretion, a hormone that induces sleepiness.³² The pineal gland in the brain begins to release melatonin a couple of hours before bedtime. A consistent bedtime early in the dark-night hours is associated with better quality sleep.

Nutrition counselors and educators can have a positive impact on sleep behavior. Sleep hygiene education programs have been successful for improving sleep quality.²⁷ Table 7.4 contains sample questions that can be included in screening, assessment, and/or monitoring sessions along with desired answers. If you do not receive desired answers, you can do further testing using the Pittsburgh Sleep Quality Index,³³ Epworth Sleepiness

Table 7.4 Sample questions and desired answers to include in nutrition assessment

Sample Questions	Desired Answers
1. What time do you go to bed every night and wake up every morning?	Consistent (even on weekends)
2. How many hours do you sleep on an average night?	7–9 h of actual sleep
3. Do you have difficulty falling asleep once in bed?	No, usually fall asleep within 30 min
4. How many times do you wake each night?	Rarely, wake once per night
5. Do you feel refreshed upon waking in the morning?	Yes, no feelings of grogginess or grogginess dissipates within a few minutes
6. How often do you feel sleepy during the day?	Rarely

Source: Adv Nutr. 2014 Nov; 5(6): 742–759. Published online 2014 Nov 3. doi:10.3945/an.114.006809

Scale,³⁴ or Berlin Questionnaire.³⁵ If any of these sleep screens indicate poor sleep or if sleep issues do not improve with good sleep hygiene, a referral should be made to a sleep specialist. The American Academy of Sleep Medicine is a credible resource for finding an accredited sleep center.

Nutrition professionals should be aware of the general practices of healthy sleep promotion in order to provide basic guidance for clients. Table 7.5 has a list and an explanation of common recommendations for healthy sleep habits. Nutrition professionals can also research foods believed to help induce sleep that could be added to a nighttime routine. Some research studies have shown beneficial effects of specific foods regarding sleep induction, such as tart cherry juice, almond butter, chamomile tea, and kiwi.^{36–39} Although larger studies are needed

to confirm findings, desirable foods for sleep are in line with general recommendations for good health.

For clients who have a sleep problem, consider asking your client to develop a written routine that the client can experiment with and add or subtract items as needed. Lifestyle Management 7.4 in Appendix C has a list of sleeping tips that could be given to a client for consideration.

Counselor: *From what you say, I understand that you have a problem falling asleep at night. I have some ideas, would you like to hear them?*

Counselor: *Here is a list of sleeping tips that has worked for some people, and here is an example of a bedtime routine that has worked for an individual. How do you feel about developing a routine that you could experiment with?*

Table 7.5 General Recommendations for Healthy Sleep Habits

Lifestyle Factor	Explanation	Recommendation
Sleep Timing	Consistent timing enhances maintenance of circadian rhythms	Get up and go to bed at the same time every day. Set a bedtime that is early enough for you to get at least 7 hours of sleep.
Bedtime routine	Provides a cue to your body to wind down	Establish a relaxing bedtime routine Could include a warm foot soak followed by a cream rub, snack of melatonin containing foods, short Tai Chi or yoga sleep routine Write a plan. See Exhibit 7.5.
Bedroom Environment	Enhances readiness to sleep 60–68 degrees room temperature associated with the most release of melatonin	Make your bedroom quiet and relaxing. Keep the room at a comfortable, cool temperature.
Physical Activity	Regular physical activity is associated with improved sleep quality	Exercise daily. Vigorous exercise is best, but even light exercise is better than no activity. Do not reduce sleep to exercise.
Caffeine	Even low amounts may affect sleep	Reduce or eliminate caffeine-containing beverages and food consumption, especially after lunchtime
Lights	Blue light has a short wavelength that affects levels of melatonin more than any other wavelength.	Avoid bright light in the evening and expose yourself to sunlight in the morning. Use dim higher wavelength red lights at night, which do not suppress the release of melatonin.
Cigarette smoking	Voluntary and involuntary arousal	Teach effects of smoking on sleep; encourage cessation
Heavy meals	Could cause indigestion	Avoid eating large meals for two to three hours before bedtime. Try a light snack 45 minutes before bed if you're still hungry.
Alcohol	Sleep is disrupted during the second half of the night.	Avoid before bedtime.

(continued)

Table 7.5 General Recommendations for Healthy Sleep Habits (*continued*)

Lifestyle Factor	Explanation	Recommendation
Electronics	Light emanating from the screens of these devices is activating to the brain. Emotion-evoking media stimulates the brain before bedtime.	Do not use electronics one hour before bedtime.
Behavior	You do not want to associate your bedroom with anxiety about sleeping.	If you don't fall asleep after 20 minutes, get out of bed. Use your bed only for sleep and pleasant activities.
Stress	A busy mind and tense muscles are not conducive to sleep	Start winding down two hours before bedtime. Dial down stress with relaxation exercises, meditation, or deep breathing exercises. Journal your anxieties.

Source: Golem, D. L., Martin-Biggers, J. T., Koenings, M. M., et al. An integrative review of sleep for nutrition professionals. *Adv Nutr.* 2014; 5:742–759. National Sleep Foundation, www.sleepfoundation.org. Accessed June 12, 2019.

Exhibit 7.5 An Example of a Bedtime Routine

9:30 p.m.	Wear blue light blocking glasses or blue light blocking bulbs Drink a cup of chamomile tea and eat one kiwi
10:00 p.m.	No visual electronics Rub feet with lavender oil
10:25 p.m.	Follow a 10 minute Tai Chi routine for sleep Use blue light blocking bulbs in exercise room
10:40 p.m.	Read a book in a comfortable chair
11:00 p.m.	Bed If not asleep by 11:25 p.m., get up and go to chair and read.

contemplative traditions and is defined as “paying attention in a particular way, on purpose, in the present moment, and nonjudgmentally.”⁴⁰ Without awareness, individuals are more likely to behave compulsively or automatically and may not be behaving in their best interests. Factors that can pull us away from awareness of the present include absorption in the past, fantasies and anxieties about the future, preoccupation with multiple tasks, or negative feelings, such as anger or jealousy.

Advocates of mindful eating encourage replacing mindless eating with conscious awareness, allowing individuals to recognize the pleasures of the eating experience. Supporters of this method believe mindfulness permits attentiveness to feelings of hunger and fullness and helps bring a balanced approach to eating. See Table 7.6 for a list of components generally included in a

7.4 Mindful Eating

Let mindfulness of your body set the rhythm for your upcoming meal.

—DONALD ALTMAN

Mindful eating or a similar approach, intuitive eating, has become increasingly popular as a method encouraging individuals to use their inner wisdom to find joyfulness in the preparation and consumption of food. Canada’s updated 2019 food guide promotes mindful eating. **Mindfulness** has roots in Buddhist and other

Exercise 7.5 Explore the Center for Mindful Eating

Go to The Center for Mindful Eating website, <http://www.thecenterformindfuleating.org/>. Review various aspects of the site.

- In your journal, describe two things you learned about mindful eating.
- Would you like to learn more about mindful eating and incorporate components of the method in your life? Explain.
- Would you like to incorporate mindful eating in future nutrition counseling or education interventions? Explain.

Table 7.6 Components of Mindful Eating

Component	Procedure and Description
Enjoyable eating	Healthy eating is a blend of pleasure and nutrition.
Eat slowly	Periodically take breaks during eating to breathe and assess fullness.
Focus on eating	Remove distractions; do not eat in the car or while watching TV or working on the computer.
Recognize inner cues	Use feelings of hunger and fullness to guide eating rather than a defined diet plan.
Eat nonjudgmentally	Acknowledge likes, dislikes, and neutral feelings about food without judgment.
Be aware of senses	Use all your senses to explore, savor, and taste food.
Be in the present	Focus on the direct experiences associated with food and eating, not distant outcomes.
Reflect on mindless eating	Be aware of and reflect on the effects caused by unmindful eating (eating out of boredom or frustration, eating to the point of fullness).
Recognize interconnectedness	Recognize an interconnection of the earth, living beings, and cultural practices and the impact of food choices on those systems.
Practice meditation	Make meditation practice a part of life. It supports awareness of emotional and physical hunger and satiety cues. All help guide decisions on when to begin and end eating.
Process oriented	Focus is on the experience of eating food, not restricting intake.
Not outcome based	Weight focus can lead to unbalanced eating practices and psychological issues.

Source: Adapted from Mathieu, J. What should you know about mindful and intuitive eating? *J Am Diet Assoc.* 2009; 109:1982–1987; The Center for Mindful Eating. Available at <http://www.thecenterformindfuleating.org/>. Accessed June 13, 2019.

mindful eating approach. Mindfulness-based approaches seem most effective in addressing binge eating, emotional eating, and eating in response to external cues.⁴¹ The results of studies using this methodology for weight loss have not always been consistent, but there is strong support for inclusion of mindful eating as a component of weight management programs.⁴² An evaluation of eating slowly has been shown to help maximize satiation and reduce kilocalorie intake within meals.⁴³ The tenets of this approach harmonize with Slow Food, an international, grassroots movement that “links the pleasure of food with a commitment to community and the environment” and with the size acceptance and intuitive eating approach to improved eating behavior.^{44,45} See the resources at the end of the chapter for links to established programs helping individuals restructure their eating behavior and relationship with food.

7.5 Relapse Prevention

There is no failure except in no longer trying.
—ELBERT HUBBARD

There are many obstacles to initiating a lifestyle behavior change, but maintaining that change is a major challenge. Mark Twain once quipped, “It’s not difficult to

stop smoking—I’ve done it dozens of times.” Relapse rates for dietary regimens are disconcerting, ranging from 50 to 100 percent. However, these numbers could be misleading because they do not reflect the cumulative effect of multiple attempts to change dietary habits over time.⁴⁶ Described as a normal part of the change process in the Transtheoretical Model (see Chapter 2), relapse can in fact be part of a positive spiral that leads to enduring change. Also, relapse numbers do not account for self-changers, people who may have acquired skills in programs during previous attempts to change behavior but were not ready to follow through on their objectives at that time.

In response to this issue, Marlatt⁴⁷ developed a **relapse prevention** model that has been successfully employed for weight-loss programs and addiction treatment interventions.^{48,49} The premise of this model (see Figure 7.1) is to ascertain which factors are threats for relapsing and then to develop cognitive and behavioral strategies to prevent or limit relapse episodes.⁵⁰ There are two major categories of factors: *immediate determinants* and *covert antecedents*.

Immediate Determinants

Threats to relapsing that are categorized as immediate determinants include the following: high-risk situations,

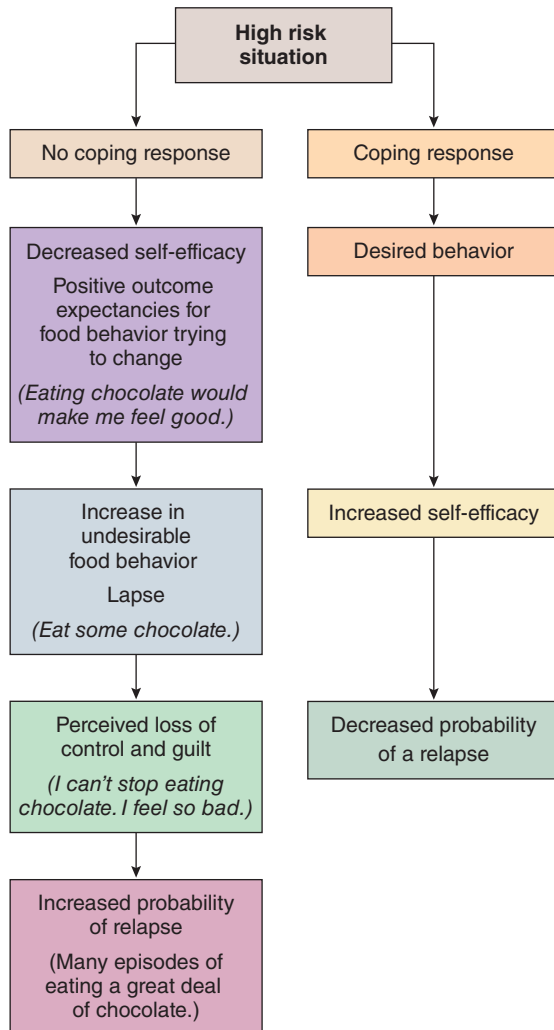


Figure 7.1 Cognitive-Behavioral Model of the Relapse Process

Source: Adapted from Marlatt, B. A., Gordon, J. R., eds. *Relapse Prevention: Maintenance Strategies in the Treatment of Addictive Behaviors*. New York, NY: Guilford Press, 1985, p. 38.

a person's lack of coping skills, overly positive outcome expectancies, and a negative reaction to a lapse.

High-Risk Situation Certain situations or events provide an alluring environment to revert to previously established behavior patterns. These high-risk conditions threaten a person's sense of control and frequently precipitate a relapse. Exhibit 7.6 lists common high-risk situations, and the following provides a discussion of selected ones.⁴⁹

- **Negative emotional states.** The feelings of anger, anxiety, depression, or frustration that one may feel about an impending divorce or credit problem can precede a relapse. Also, feeling bored or lonely often leads to undesirable food intake.

- **Interpersonal conflict.** Conflicts with others, such as an argument with a friend, often trigger a relapse.
- **Social pressures.** Being around others who are eating foods that are to be avoided can result in direct and indirect pressure to relapse.
- **Positive emotional states.** Celebrations or events frequently serve as cues to eat certain foods and can provide a vehicle for a relapse.

Coping Skills Whether or not a high-risk situation results in a relapse will depend on the ability and determination of the individual to cope with the difficulty.

Positive Outcome Expectancies During a stressful or high-risk situation, previous pleasurable experiences associated with particular foods and the significance of those perceptions can add to the desire to lapse.

Reaction to a Lapse A *lapse* is a single act, a slip, and a momentary return to previous behavior; a *relapse* is a series of lapses, loss of control, and a return to previous behavior. Lapses are a momentary indulgence that increases the likelihood of a full-blown relapse, but the progression is not inevitable.⁴⁹ Because no one is perfect, there should be preparation for handling a lapse. The way in which the slip is viewed is an important predictor of a relapse. If the lapse is considered a personal failure

Exhibit 7.6 Examples of Common High-Risk Situations

- Negative emotional states: anger, anxiety, depression, frustration, boredom, loneliness
- Positive emotional states: celebrations, events
- Conflict with others, arguments
- Social gatherings, parties
- Holidays
- Traveling and vacationing
- Eating out
- Snacking
- Lack of coping skills
- Negative self-talk
- Stress
- Hunger, urges, food cravings
- Fatigue
- Lack of social support

(“I am a failure. My wife is going to be so disappointed.”) or due to a global attribute (“I have no willpower. I will always eat the wrong foods.”), the probability of a relapse increases. On the other hand, if the slip is viewed as a learning experience providing the groundwork for developing more effective strategies for the future, relapse is less likely to occur.

Covert Antecedents

Some factors that precede a relapse are not obvious and are referred to as covert antecedents. These include apparently irrelevant decisions, lifestyle imbalances, and urges and cravings.⁴⁹

Apparently Irrelevant Decisions (AIDs) A series of seemingly harmless decisions can provide a conduit for a relapse. For example, buying a bag of potato chips for the “children” or a bag of cookies “in case guests stop by” creates conditions that can bring an individual to the brink of a relapse.

Stress Level A person experiencing a high degree of stress is automatically generating negative emotional states, thereby creating high-risk situations (see Exhibit 7.6). In addition, there is an increased desire to relapse and connect to the satisfying emotional states with previous unhealthy eating pleasures.

Cognitions Cognitive factors such as rationalization and denial set the stage for a relapse. For example, “I deserve a whole batch of brownies after this rejection.” Here rationalization that the indulgence is justified adds to the creation of a relapsing environment.

Urges and Cravings The desire for immediate gratification can take the forms of *urges*, sudden impulses to indulge, or *cravings*, subjective desires to experience the effects of an indulgence.

Relapse Prevention Counseling

Relapse prevention programs were originally designed as a follow-up treatment to maintain gains made during an intervention. Now therapists report integrating relapse prevention strategies throughout the course of interventions.⁵⁰ As one authority remarked, “Life is a chronic relapsing condition.”⁵¹ Many of the behavior change strategies previously covered can be integrated in a relapse prevention program. Most versions of such a program incorporate three main categories of strategies: skills training, cognitive restructuring, and lifestyle balancing. Let’s look at some of the specific components of these strategies.

Description and Introduction To begin, you may want to describe the relapse prevention model and introduce the concept of high-risk situations. Larimer et al.⁴⁹ suggest using the metaphor of a road trip to introduce the concept of anticipating high-risk situations and preparing a “toolbox” for dealing with them.

Counselor: *Behavior change can be compared to a highway journey that has easy and difficult stretches. The difficult portions can be handled effectively by being prepared (having a road map, a spare tire, a cell phone, and so forth), paying attention to road signs (warning signals), and using driving skills learned previously for handling troublesome conditions. In your journey to change your food behavior, there are high-risk situations, too, and during our sessions together we will work on identifying them and the preceding warning signals. Also, we will focus on skills that you already have and incorporate them into coping strategies.*

Identification of High-Risk Situations To anticipate and prepare for high-risk situations, the conditions that precede a lapse must be identified. Attention should be paid to warning signs such as stress or apparently irrelevant decisions. The following list outlines some methods of identifying situations where coping difficulties could arise:

- Investigate past lapse and relapse episodes.
- Journal activities, cognitions, and eating behavior. See Lifestyle Management Form 6.1 or 7.2 in Appendix C.
- Review a list of common high-risk conditions. See Exhibit 7.6.

Behavioral and Cognitive Strategies to Deal with High-Risk Situations The metaphor of a toolbox can be used to describe the availability of a variety of coping strategies. Because all strategies are not applicable to every temptation, clients need a repertoire from which to choose. Sometimes several strategies can be used at the same time. For example, behavioral strategies for dealing with temptations at a cocktail party could include eating a small snack before the event, bringing a vegetable platter or other dish with acceptable food choices, and making a contract that a glass of water will be drunk before tasting any foods an individual is trying to avoid at a party. In addition, positive self-talk strategies could be employed. A number of the strategies previously covered can also be used to deal with high-risk situations: tracking, cue management, countering, eating behavior interventions, reinforcement, contracting, goal setting, modeling, stress management, relaxation techniques, social disclosure, and cognitive restructuring.

Strategies to Minimize the Occurrence of High-Risk Situations

By minimizing exposure to stressors, the risk of encountering high-risk situations declines. This could include such activities as removing foods that one is attempting to avoid from the home, sitting in a different chair at the dining table, or taking a new route to work to avoid passing a particular bakery. These techniques include cue management and countering, previously discussed in Chapter 6.

Enhancement of Self-Efficacy One of the major objectives of the relapse prevention model is the enhancement of self-efficacy. Several ways of addressing this objective are possible:

- **Collaborative counseling style.** A collaborative counseling style is employed to encourage clients to take an objective view as well as ownership of their behaviors and goals. As a result, clients are more likely to feel a sense of accomplishment when goals are obtained, resulting in an increase in self-efficacy.
- **Set clear, modest, and achievable goals.** One of the objectives of setting goals is to encourage a behavior change to take place. Another objective is for clients to feel a sense of mastery over their problems when the goals are achieved. This increases the belief that additional or more complex goals can be achieved. The overriding theme is that behavior change will occur as new skills are acquired rather than by employing will power.
- **Providing feedback.** Providing positive feedback about the accomplishment of new tasks, even if they were not related to the dietary objectives, can increase self-efficacy.

Lapse Management The objective of lapse management is to have a plan in place for handling a slip so that it does not escalate into a full-blown relapse.⁴⁷ Sometimes a written motivational set of instructions can be useful for a client to refer to in the case of a lapse. The following example contains two possible ways to introduce the topic:

Counselor: *Because no one is perfect, I thought we should talk about lapses and relapses. Lapses are momentary slips, such as eating a bag of potato chips. A relapse is a total abandonment of the food program objectives. Research has shown that if you handle the*

lapse effectively, there doesn't need to be a relapse. We could compare this to going on a trip. Let's assume you were driving from New Jersey to Florida to go to Disney World. If you got lost in Baltimore, you wouldn't simply give up and go home. The same is true for a lapse. It should be treated as a stumbling block, not a reason to give up.

It is a good thing that you had this lapse while we were still seeing each other. It gives us an opportunity to understand what happened and work out a plan to deal with the lapse. Actually lapses are a normal part of the change process. Let me show you a diagram of the process of change.

A good way to introduce the concept of relapse to your clients is to show them a visual representation of Prochaska's States of Change model and discuss the process of change (see Lifestyle Management Form 7.5 in Appendix C).

Cognitive Restructuring Cognitive restructuring was covered in Chapter 6; however, self-talk related to lapses is particularly important in the relapse prevention model. Emphasis should be placed on lapses as a learning experience and the need to use or learn new skills. Clients should be warned not to fall into the trap of blaming themselves as a failure or having moral weakness and not to proclaim a prophecy that the slip means a total relapse.

Urge Management Techniques Clients need to realize that they are likely to experience an urge to return to previous eating styles. Ways of handling the desires should be addressed, such as the following:

- Contract to consume a certain amount of the food causing urges and cravings.
- Plan for a response when the urge arises. For example, clients can tell themselves that they can have the piece of cake after drinking a glass of water or eating an apple. Often the urge to eat the undesirable food has passed by the time the water or apple is consumed.
- Plan for a nonfood countering activity such as a relaxation response, knitting, jumping, and so on.
- Use an image technique called *urge surfing*. In this method, the client visualizes the urge or craving as a wave that crests and then washes onto a beach. Clients are told to imagine riding the wave on a surfboard rather than struggling against it or giving in to the want.⁴⁹

7.6 Ending the Counseling Relationship

Nothing so difficult as a beginning in poesy, unless perhaps the end.

—LORD BYRON, DON JUAN

Life is a journey of change. Nutrition counseling, either a brief intervention or an intensive program, is part of that journey and at some point needs to come to an end. For brief encounters, the transition to terminating the counseling experience generally would not pose any special issues. However, for clients with whom there has been long-term involvement, several considerations should be taken into account.

Reasons for termination vary. Sometimes insurance coverage or program protocols impose a time limit. In other cases, the counselor, the client, or both will feel that counseling goals have been obtained or at least reasonable progress in attaining them has been made. On occasion, a counselor may believe that a client should be referred to a psychotherapist before resuming work on nutritional concerns. Referrals would also be in order when problems emerge, such as bulimia, which could be best handled by a specialist. At times a counseling relationship needs to end because the counselor or the client is preparing to move away or take a new job. The following sections offer suggestions for ensuring a smooth transition to the end of your counseling support.

Preparation for a Conclusion

First, provide transition time. Final meeting dates should be agreed on before the terminating session. For time-limited programs, counselors can remind clients of the upcoming final meeting. Care should be taken, if possible, not to spring a decision to end a counseling relationship at the last session. Counselors and clients may be surprised at the intensity of the emotional response to the end of the interaction.

Discuss reasons for ending the counseling relationship. Share your perception of your clients' progress, and request that your clients voice their views.

Final Session

Consider taking these steps for a smooth wrap-up session with your clients:

- **Review beginnings.** Discuss the issues that brought your client to you in the first place. You might review initial assessments.
- **Discuss progress.** Identify goals and progress in meeting them. Having your progress notes handy could be useful.

- **Emphasize success.** A review of accomplishments can be a source of much pleasure as clients remember how certain tasks were anticipated with dread (for example, taking glucose readings) or how stuck they felt in the midst of indecision. This is a good time to discuss the skills a client used to bring about change. Research indicates that clients who feel a major responsibility for a transformation will continue to experience success rather than those who attribute fairing well to an extrinsic factor, such as a therapist. A counselor could ask, "What do you believe you did to bring about this change?"
- **Summarize current status.** Highlight current biochemical and physical parameters, coping skills, social support, challenges, and environmental issues.
- **Explore the future.** How will the changes that have been made be maintained? How will old challenges be addressed and what new challenges are likely to be encountered? How will those difficulties be handled? Are there additional changes to be made? Who will offer support in the future? This is also the time to discuss a referral if one is being made.
- **Discuss future involvement.** Follow-up meetings are advantageous to both clients and counselors. Such meetings provide opportunities for reassessment of nutritional status and evaluation of goals and a time to reinforce previously set behavior changes. A periodic check-in arrangement could be negotiated that involves personal meetings, phone calls, text message, or email. Sometimes recommendations are made for clients to initiate contact if changes in clinical parameters (such as a five-pound weight gain) or a significant life event occurs (divorce, marriage, or death of a close family member). These interactions help counselors document progress to implement long-term evaluation of counseling effectiveness.
- **Provide and elicit feedback concerning the significance of the relationship.** Allow time to express what the meaning of the relationship has meant to you and to your client. This generally means expressing appreciation for each other. Often clients express appreciation by saying counselors did so much for them. In this case, thank your client for the compliment, adding the reminder, "The reason you did so well was because of your hard work." Possible lead-ins to relationship discussions include the following:

Counselor: *It has been such a pleasure working with you. I want you to know that I will miss our weekly meetings.*

I want you to know that I really appreciate what you have taught me about Cuban culture.

- **Consider holding a ceremony and exchanging symbols.** You may think about a special location or activity for the last meeting. Some possibilities include a walk in the park, a lunch, or a different meeting room. Sharing a particular food, especially if it had a significant connection to your client's diet, can make a profound impression. Exchange of gifts will be based on program or facility policy; however, it is generally considered appropriate to give and accept an inexpensive gift as a symbol of completion. Mementos symbolic of work done together can be particularly meaningful, such as a wooden apple for a client who made a major effort to increase intake of apples. One counselor regularly writes an individualized letter of support and encouragement to be given to clients on the final meeting day or to be mailed after the last meeting.
- **Final good-bye.** Generally, you would expect to acknowledge the end of the counseling experience, shake hands, and walk with your client to the door, waiting room, or usual exit. Murphy and Dillion⁵² suggest a final parting by telling your clients you will be picturing them doing something they have longed for or intend to accomplish, such as running a five-mile race, taking a cooking class, or completing a degree. Such statements reinforce that your client's future welfare is important to you and that you will always be rooting in his or her corner.

Handling Abrupt Endings

Unfortunately, all closures are not tidy. Sometimes clients simply do not show up for a session, or they cancel future appointments. If there is an abrupt ending to an involvement, consideration should be given to sending a termination letter or email as an attempt to have a closure experience. In your communication, you may wish to reinforce achievements and leave the door open to a future association. See Exhibit 7.7 for an example of such correspondence.

7.7 Counseling Evaluation

Evaluation is an important component of counseling for your growth as a counselor. After an intervention, counselors should take time to assess the quality of their skills and contemplate what could have been handled differently. In addition, there is increasing pressure from the managed care industry for health professionals to produce outcome measurements. To meet new mandates, nutrition counselors need to incorporate brief,

Exhibit 7.7 Example of a Termination Letter

Dear Mary,

Because I haven't heard from you after our meeting on December 2nd, I wanted to touch base with you. I hope you are doing well. On two occasions I called and left a message but did not receive a reply. I am assuming that you wish to stop working together at this time.

If you wish to resume lifestyle counseling at a future date, I would be happy to work with you again. You made commendable changes in your exercise pattern as well as an increase in your fruit, vegetable, and fiber intake.

It was a pleasure to work with you. I hope you have continued success in your goals to lower your blood pressure.

Sincerely,
Sally Frank

efficient, and inexpensive assessment procedures into their counseling programs. Large facilities are likely to have a tracking system in place for evaluation. Licensing regulations differ around the country, but they often include requirements on what and how data need to be reported. For small facilities and for counselors in private practice, nutrition counselors will likely find the need to develop their own procedures for producing outcome data.

Evaluation of Client Progress

Several of the factors necessary for an effective evaluation of client progress have already been covered throughout this book. Parameters used for evaluation can include the following types of data: behavioral (food diaries, exercise records), physical (body weights, blood pressure), biochemical (cholesterol and glucose levels), and functional (length of hospital stay). The initial assessment establishes a baseline of client behaviors and problems that will be used for future comparisons. Standards, such as Recommended Dietary Intakes, established by national organizations provide a yardstick to determine normalcy. In addition, the Academy of Nutrition and Dietetics Nutrition Care Process has monitoring and evaluation as a major component of the process.² See Chapter 5. The key to a client monitoring process and evaluation of outcomes is having well-defined, measurable goals and a charting process that tracks implementation of strategies and goal attainment. If done properly, counselors can continually assess

Table 7.7 Goal Attainment Scale for Exercise for One Week

Value	Description of Value	Behavior
–2	Most unfavorable outcome thought likely	Do not walk at all.
–1	Less than expected success with performance	Walk less than 60 minutes during the week.
0	Anticipated level of performance	Walk for 30 minutes two times.
11	More than expected success with performance	Walk for at least 30 minutes, three times.
12	Best expected level of performance	Walk for at least 30 minutes, more than three times.

whether goals were achieved and what strategies were successful.

Goal Attainment Scale

Cormier et al.⁵³ describe a goal attainment scale (GAS) rating system that a counselor and client can work together collaboratively to establish. A range of values is assigned to possible results, from a score of 12 for a most favorable result to a 22 for a least favorable outcome. A score of 0 represents the anticipated level of performance. This type of rating system is particularly useful for providing outcome results to funding agencies or for supplying useable numerical scores to determine levels of change for statistical analysis. The graduated level of desired outcomes has the added advantage of allowing success at several levels of performance. This is useful when there is a tendency to set goals that are too ambitious. See Table 7.7 for an example.

Final Client Evaluation

At the end of an intervention, a final assessment should be conducted to determine the degree of attainment of final goals. If a follow-up interaction was arranged at the termination, a post-treatment evaluation can be conducted to determine whether the benefits of counseling have been maintained. Possible implementations of these evaluations include an in-person follow-up

interview, a questionnaire sent via email or postal delivery, or a telephone conversation. The follow-up has the added advantage of indicating to clients that the counselor continues to be interested in their welfare.

7.8 Evaluation of Counseling Effectiveness and Skills

Counselors also need to evaluate their effectiveness. A number of methodologies can be used for this purpose.

Client Evaluation of Counselor

The CARE Measure was developed to measure a doctor's relational empathy during consultations with patients. This instrument has been modified to reflect client interactions with other health care providers.⁵⁴ The form can be given to a client to complete and hand in to office staff or emailed, and the completed form can be electronically returned. See Lifestyle Management Form 7.8 in Appendix C for a copy of this validated instrument.

Assessing Client's Nonverbal Behavior

The nonverbal behavior of a client represents a key to his or her emotional state and can indicate how the counseling session is progressing. Any discrepancies between a client's nonverbal behavior and verbal messages should be noted.

Checking

Checking, or periodic summaries, is a technique covered in Chapter 3. This method allows counselors to evaluate whether they are on target during a counseling session.

Counseling Checklists (Interview Guides)

Counseling checklists, such as those provided in Chapter 14, can serve as a rudimentary assessment tool, even though their primary function is to help organize a counseling session. At the end of a session, a counselor

Exercise 7.6 Design a Goal Attainment Scale

Choose a new goal or one that you have been working on. Design a goal attainment scale representing what you would like to accomplish in the next week. Use Table 7.7 as a guide.

- Write your goal attainment scale in your journal.
- Describe your experience using the goal attainment scale. Would you want to use this scale in a counseling session with a client? Explain why or why not.

can review the form to assess whether all planned counseling interventions were addressed.

Charting

Charting can be a valuable tool to evaluate counseling effectiveness as well as client progress. The assumption can be made that if counseling goals have been met, then the counselor demonstrated effective skills. However, additional sources of evaluation are required because client ability or inability to meet counseling objectives does not always reflect back on the counselor. The following questions should be considered if general counseling goals were not met:

- Was the assessment adequate?
- Were major problem areas clearly identified?
- Were goals realistic and clearly defined?
- If specific goals were not achieved, was there an adequate assessment? If not, why not?
- What behavior change strategies were attempted? How effective were they?
- What could have been done differently?

Video, Audiotape, or Observation Evaluations

Counselors can conduct self-evaluations of their skills by using a video or audiotape. An alternative would be to have a colleague or mentor conduct an assessment. Generally, it is a good idea to use an assessment instrument to guide the evaluation. The Interview Assessment Form, Lifestyle Management Form 7.6 in Appendix C, addresses general counseling effectiveness including an evaluation of the flow and organization of the interview, application of interpersonal skills, and quality of client responses. This form was originally developed at Brown University School of Medicine to assess medical student interviewing skills and was modified to meet the needs of a nutrition counselor. Another assessment instrument, Counseling Responses Competency Assessment, Lifestyle Management Form 7.7 also available in Appendix C, was developed to increase understanding and awareness of basic counseling responses. Either form can be used as a self-rating instrument, without frequency tabulation, following a session to upgrade counseling skills.

CASE STUDY 7.1 Amanda: The Busy Sales Representative

Amanda, age 27, is a sales representative for a large pharmaceutical company. She lives in a western suburb of Chicago, but her present territory covers the north side of Chicago. Her day is quite full. Typically, she leaves her townhouse by 6:30 a.m. to make the drive into the city for an 8:00 a.m. call at a physician's office or a hospital. She loves her job, but the long hours and stressful lifestyle have taken a toll on her personal life as well as her health.

Despite efforts to eat well, Amanda cannot seem to control her weight. She is about 40 pounds heavier than when she first started with the company despite her best efforts to diet. She believes that the nature of her job makes eating well impossible and has all but given up on any hope of losing weight permanently. She is out of town at least ten days a month and spends a good deal of time in airports or in her car. A shake and a burger do the trick, as she never quite knows when her next meal might be. Her many business meetings and associated social engagements have food as a central focus. When she finally gets home, she finds her cupboards are bare, including her refrigerator. She is never home long enough to use up any fresh produce or dairy.

Amanda's closest friend is Christine, who lives in her townhouse complex. She has known Christine for many years, and they have shared the efforts and woes of dieting. Christine is 75 pounds overweight and experiencing some depression at this time, mainly because of her weight. They socialize almost daily when Amanda is home and vacation together one to two times a year. Despite this great friendship, Amanda feels influenced by Christine's negative feelings toward life and is ambivalent about what she needs to do about the relationship to improve her own personal well-being.

Exercise 7.7 Case Study Review

What are possible sources of social support for Amanda? Suggest two changes in lifestyle that seem appropriate for her. Identify dysfunctional thinking patterns that could interfere with her attempts to change her behaviors. Identify a role-playing scenario that could be useful in a nutrition counseling session. How would you approach the topic of stress management with Amanda?

KEY TERMS

Mental Imagery: a mental rehearsal of an anticipated experience.

Mindful Eating: a slower, more thoughtful way of eating.

Mindfulness: being attentive and aware of the present.

Relapse Prevention: systematic approach to maintaining a behavior change involving the identification of and preparation for high-risk situations.

Social Disclosure: sharing information about oneself in order to enhance lifestyle change objectives.

REVIEW QUESTIONS

1. Explain why dietary changes can put a stress on relationships.
2. What explanation has been given to explain the benefits of having social support for making lifestyle changes?
3. Explain the physiological response to an anticipated stressor.
4. Identify and explain four lifestyle factors that interfere with healthy sleeping behavior.
5. Identify and explain the main components of mindful eating.
6. What are four immediate determinants of a relapse?
7. Name and explain four covert antecedents of a relapse.
8. Describe nine topics that could be addressed in a final session with a client.
9. Explain ways in which nutrition counselors can assess their own effectiveness.
10. Describe a goal attainment scale.

ASSIGNMENT Identifying Stress

The objective of this assignment is for you to become more aware of the stresses in your life. In Exercise 7.3, you measured your level of stress and identified your symptoms of stress. Use Lifestyle Management Form 7.2 (Appendix C) to record stressful activities, symptoms of stress, and internal self-talk at the time of the stressful event and at the time of the occurrence of the symptom. Note that the stressful event and the symptom may not occur simultaneously. In your journal answer the following questions:

1. Were the symptoms you identified in Exercise 7.3 congruent with your journal findings? Explain.

2. What were the main stressors in your life over the three days? How do they compare to the categories of stressors in Table 7.2? Explain.
3. Review your internal dialogue entries. Was there evidence of cognitive distortions? Explain.

ADDITIONAL RESOURCES

Mindful Eating

Center for Mindful Eating, <http://www.thecenterformindfuleating.org>

Mindfulness-Based Eating Awareness Training, www.mindfuleatingforlife.com

Stress Management and Sleep Resources

Stress Free Now. Cleveland Clinic Wellness. Site guided program. clevelandclinicwellness.com

Gentle Stress Relief. Numerous practical suggestions to relieve stress. www.gentle-stress-relief.com

Center for Mindfulness, University of Massachusetts Medical School. www.cfmhome.org. Hosts a variety of online resources including community discussion forums and digital media.

Davis, M., Eshelman, E. R., McKay, M., and Fanning, P. **The Relaxation & Stress Reduction Workbook**. 7th ed. Oakland, CA: New Harbinger Publications, 2019.

American Academy of Sleep Medicine, Sleep Education, <http://sleepeducation.org/>. Provides educational materials and articles about a variety of sleep problems.

National Sleep Foundation, www.sleepfoundation.org. Provides sleep solution tips and information for professionals

Creative Arts Resources for Stress Reduction

- ❑ American Music Therapy Association, www.musictherapy.org
- ❑ American Dance Therapy Association, www.adta.org
- ❑ American Art Therapy Association, Inc., www.arttherapy.org
- ❑ National Association for Poetry Therapy, www.poetrytherapy.org
- ❑ Be More Creative, creativequotations.com

Relapse Prevention

- ❑ Mirror-mirror, eating disorders, <http://www.mirror-mirror.org/recovery.htm>
- ❑ Relapse Prevention Therapy (RPT), <http://nationalpsychologist.com/index.php?s=relapse+therapy>

Investigating Assessment Forms

Thomas, P. R. (Ed.) *Weighing the Options Criteria for Evaluating Weight-Management Programs*. Washington, DC: National Academy Press, 1995. Helpful for identifying and evaluating various assessment instruments related to self-esteem, body image, eating disorders, self-efficacy, dieting readiness, stress, social support, physical activity, and diet.

REFERENCES

- ¹J. Paisley, H. Beanlands, J. Goldman, et al., Dietary change: What are the responses and roles of significant others? *J Nutr Edu Behav*. 2008; 40:80–88.
- ²Academy of Nutrition and Dietetics. *International Dietetics & Nutrition Terminology (IDNT) Reference Manual Standardized Language for the Nutrition Care Process*. 4th ed. Chicago: Academy of Nutrition and Dietetics, 2013.
- ³C. A. Latkin and A. R. Knowlton, Social network assessments and interventions for health behavior change: a critical review. *Behav Med*. 2015; 41:90–7.
- ⁴A. J. Grieco, S. A. Garnett, K. S. Glassman, et al., New York University Medical Center's Cooperative Care Unit: Patient education and family participation during hospitalization—the first ten years. *Patient Educ Counsel*. 1990; 15:3–15.
- ⁵G. K. Pot, M. C. Battjes-Fries, O. N. Patijn, et al., Nutrition and lifestyle intervention in type 2 diabetes: pilot study in the Netherlands showing improved glucose control and reduction in glucose lowering medication. *BMJ Nutrition, Prevention & Health*. 2019; Available at <https://nutrition.bmj.com/content/early/2019/05/13/bmjnp-2018-000012>. Accessed June 7, 2019.
- ⁶A. M. La Greca and K. J. Bearman, The diabetes social support questionnaire—family version: Evaluating adolescents' diabetes-specific support from family members. *J Pediatr Psychol*. 2002; 27:665–676.
- ⁷M. Barrera, D. J. Toobert, and K. L. Angell, Social support and social-ecological resources as mediators of lifestyle intervention effects for type 2 diabetes. *J Health Psychol*. 2006; 11:483–495.
- ⁸M. Barrera, R. E. Glasgow, H. G. McKay, et al., Do internet-based support interventions change perceptions of social support? An experimental trial of approaches for supporting diabetes self-management. *Am J Community Psychol*. 2002; 30:637–654.
- ⁹V. J. Stevens, J. Rossner, M. S. Hyg, et al., Freedom from fat: A contemporary multi-component weight loss program for the general population of obese adults. *J Am Diet Assoc*. 1989; 89:1254–1258.
- ¹⁰V. Mocanu, A. Bontea, and D. T. Anton-Păduraru, Eating behavior in response to acute stress. *Rev Med Chir Soc Med Nat Iasi*. 2016; 120:223–7.
- ¹¹J. P. Foreyt and G. K. Goodrick, Attributes of successful approaches to weight loss and control. *Appl Prev Psychol*. 1994; 3:209–215.
- ¹²S. Kayman, W. Bruvold, and J. S. Stern, Maintenance and relapse after weight loss in women: Behavioral aspects. *Am J Clin Nutr*. 1990; 52:800–807.
- ¹³J. Wylie-Rosett and C. J. Segal-Isaacson, *The Complete Weight Loss Workbook: Proven Techniques for Controlling Weight-Related Health Problems*. 2nd ed. Alexandria, VA: American Diabetes Association, 2007.
- ¹⁴P. J. Rosch, The American Institute of Stress. Available at: www.stress.org/about/hans-selye-birth-of-stress. Accessed June 10, 2019.
- ¹⁵M. Davis, E. R. Eshelman, and M. McKay, *The Relaxation & Stress Reduction Workbook*. 7th ed. Oakland, CA: New Harbinger Publications, 2019.
- ¹⁶National Institutes of Health. Stress and anxiety. Available at: <http://www.nlm.nih.gov/medlineplus/ency/article/003211.htm>. Accessed June 10, 2019.
- ¹⁷H. Benson and W. Proctor, *Relaxation Revolution*. New York: Scribner, 2010.
- ¹⁸A. J. Tomiyama, T. Mann, D. Vinas, et al., Low calorie dieting increases cortisol. *Psychosom Med*. 2010; 72:357–364.
- ¹⁹T. Remer and L. Shi, Low-calorie dieting and dieters' cortisol levels: Don't forget cortisone. *Psychosom Med*. 2010; 72:598–599.
- ²⁰C. S. Tam, E. A. Frost, W. Xie, et al., No effect of caloric restriction on salivary cortisol levels in overweight men and women. *Metabolism*. 2014; 63:194–198.
- ²¹American Psychological Association. A stress snapshot. Available at: <http://www.apa.org>. Accessed June 10, 2019.
- ²²J. D. Spence, P. A. Barnett, W. Linden, et al., Recommendations on stress management. *Canadian Med Assoc J*. 1999; 160(suppl):S46–S51.
- ²³National Institutes of Health (NIH), National Heart, Lung, and Blood Institute. Clinical guidelines on the identification, evaluation, and treatment of overweight and obesity in adults—The evidence report. *Obes Res*. 1998;6(suppl 2):S51.
- ²⁴Henry Benson Institute for Mind Body Medicine at Massachusetts General Hospital. Available at: bensohenryinstitute.org Accessed June 10, 2019.
- ²⁵D. Meichenbaum, Stress inoculation training: A 20-year update. In: Lehrer PM & Woolfolk RL, Eds. *Principles and Practice of Stress Management*. 2d ed. New York: Guilford, 1993:373–406.
- ²⁶T. H. Holmes and R. H. Rahe, The Social Readjustment Rating Scale. *J Psychosom Res*. 1967; 11:213–218.
- ²⁷D. L. Golem, J. T. Martin-Biggers, M. M. Koenings, et al., An integrative review of sleep for nutrition professionals. *Adv Nutr*. 2014; 5:742–759.
- ²⁸F. S. Luyster, P. J. Strollo, P. C. Zee, and J. K. Walsh, Sleep: a health imperative. *Sleep* 2012; 35:727–34.
- ²⁹National Sleep Foundation. *International bedroom poll: summary of findings*. Arlington (VA): National Sleep Foundation; 2013.
- ³⁰O. Lewis, Y. Odeyemi, V. Joseph, et al., Screen hours and sleep symptoms: The US National Health and Nutrition Examination Survey. *Fam Community Health*. 2017; 40:231–235.
- ³¹Z.-L. Huang, Y. Urade, and O. Hayaishi, The role of adenosine in the regulation of sleep. *Curr Top Med Chem*. 2011; 11:1047–57.
- ³²C. A. Czeisler, J. S. Allan, S. H. Strogatz, et al., Bright light resets the human circadian pacemaker independent of the timing of the sleep-wake cycle. *Science* 1986; 233:667–71.
- ³³T. Mollaveva, P. Thuraijah, K. Burton, et al., The Pittsburgh sleep quality index as a screening tool for sleep dysfunction in clinical and non-clinical samples: A systematic review and meta-analysis. *Sleep Med Rev*. 2016; 25:52–73.
- ³⁴M. W. Johns, A new method for measuring daytime sleepiness: the Epworth sleepiness scale. *Sleep* 1991; 14:540–5.
- ³⁵F. Chung, B. Yegneswaran, P. Liao, et al., Validation of the Berlin questionnaire and American Society of Anesthesiologists

- checklist as screening tools for obstructive sleep apnea in surgical patients. *Anesthesiology* 2008; 108:822–30.
- ³⁶X. Meng, Y. Li, S. Li, et al., Dietary Sources and Bioactivities of Melatonin. *Nutrients*. 2017 Apr 7;9:367. Available at: www.mdpi.com/2072-6643/9/4/367/htm. Accessed June 10, 2019.
- ³⁷M. P. St-Onge, A. Mikic, and C. A. Pietrolungo, Effects of diet on sleep quality. *Adv Nutr*. 2016; 7: 938–949.
- ³⁸M. Yurcheshen, M. Seehuus, and W. Pigeon, Updates on nutraceutical sleep therapeutics and investigational research. *Evid Based Complement Alternat Med*. 2015; 2015.
- ³⁹S. M. Chang and C. H. Chen, Effects of an intervention with drinking chamomile tea on sleep quality and depression in sleep disturbed postnatal women: a randomized controlled trial. *J Adv Nurs*. 2016 Feb; 72(2):306–15.
- ⁴⁰J. B. Nelson, Mindful eating: The art of presence while you eat. *Diabetes Spectrum*. 2017; 30:171–173.
- ⁴¹J. M. Warren, N. Smith, and M. Ashwell, A structured literature review on the role of mindfulness, mindful eating and intuitive eating in changing eating behaviours: effectiveness and associated potential mechanisms. *Nutr Res Rev*. 2017; 30:272–283.
- ⁴²C. Dunn, M. Haubenreiser, M. Johnson, et al., Mindfulness approaches and weight loss, weight maintenance, and weight regain. *Curr Obes Rep*. 2018; 7:37–49.
- ⁴³A. M. Andrade, G. W. Greene, and K. J. Melanson, Eating slowly led to decreases in energy intake within meals in health women. *J Am Diet Assoc*. 2008; 108:1186–1191.
- ⁴⁴Slow Food. Available at www.slowfoodusa.org. Accessed April 13, 2019.
- ⁴⁵L. Bacon, J. Stern, M. D. Van Loan, et al., Size acceptance and intuitive eating improve health for obese, female chronic dieters. *J Am Diet Assoc*. 2005; 105:929–936.
- ⁴⁶D. K. Shattuck, Mindfulness and metaphor in relapse prevention: An interview with G. Alan Marlatt. *J Am Diet Assoc*. 1994; 94:846–848.
- ⁴⁷G. A. Marlatt and K. Witkiewitz, Reconceptualizing the relapse process. In G. A. Marlatt and D. M. Gordon, Eds., *Relapse Prevention*, 2nd ed. New York: Guilford, 2005.
- ⁴⁸J. P. Foreyt and W. S. C. Poston, The role of the behavioral counselor in obesity treatment. *J Am Diet Assoc*. 1998; 98(suppl):S27–S31.
- ⁴⁹M. E. Larimer, R. S. Palmer, and G. A. Marlatt, Relapse prevention: An overview of Marlatt's cognitive-behavioral model. *Alcohol Res Health*. 1999; 23:151–160.
- ⁵⁰D. R. Laws, Relapse prevention: The state of the art. *J Int Violence*. 1999; 14:285–302.
- ⁵¹W. R. Miller and K. A. Jackson, *Practical Psychology for Pastors*. 2d ed. Englewood Cliffs, NJ: Prentice Hall, 1995.
- ⁵²B. C. Murphy and C. Dillon, *Interviewing in Action: In a Multicultural World*. 4th ed. Belmont, CA: Brooks/Cole, 2010.
- ⁵³S. Cormier, P. Nurius, and C. J. Osborn, *Interviewing and Change Strategies for Helpers: Fundamental Skills and Cognitive Behavioral Interventions*. 6th ed. Pacific Grove, CA: Brooks/Cole, 2008.
- ⁵⁴S. W. Mercer, M. Maxwell, D. Heaney, et al., The consultation and relational empathy (CARE) measure: Development and preliminary validation and reliability of an empathy-based consultation process measure. *Family Practice*. 2004; 21(6):699–705.

8

Physical Activity



Learning Objectives

- 8.1** Identify benefits of regular physical activity.
- 8.2** Explain risks associated with exercise.
- 8.3** Describe 2018 Physical Activity Guidelines for Americans.
- 8.4** Differentiate between moderate and vigorous physical activity.
- 8.5** Explain barriers to becoming physically active.
- 8.6** Clarify the role of a nutrition counselor in physical activity counseling.
- 8.7** Evaluate physical activity readiness using standard assessment tools.
- 8.8** Demonstrate physical activity counseling approaches.
- 8.9** Identify issues of concern for physical activity goal setting and action planning.
- 8.10** Describe the basics of an introductory walking program.

An early-morning walk is a blessing for the whole day.

—HENRY DAVID THOREAU

Physical fitness is not only one of the most important keys to a healthy body, it is the basis of dynamic and creative intellectual activity.

—JOHN F. KENNEDY

Although media coverage of the need for exercise gives the general appearance of widespread interest, the actual number of North Americans actively involved in regular physical activity remains rather low. Authorities in the United States and Canada have voiced concern about a growing lack of exercise,^{1,2} and some have referred to the problem as an epidemic of inactivity.³

The 2018 National Health Interview Survey estimates that about half of American adults meet federal recommendations for **aerobic activity** and only 23 percent meet guidelines for aerobic and muscle-strengthening activities.⁴ In general, people become less physically active as they get older, and women are less likely to be active than men. Physical activity levels decline dramatically during adolescence, particularly among females, with the decline more apparent among African American and Hispanic than White students. Similarly only 24 percent of U.S. children and youth ages 6 to 17 meet the government guideline of 60 minutes of physical activity every day.⁵

In this chapter, we review the basics of physical activity and wellness and discuss the role of a nutrition counselor in providing physical activity guidance.

8.1 Physical Activity Initiatives

Improving the health of Americans through physical activity and good nutrition must become a national priority.

—MARTHA N. HILL, R.N., PH.D., PAST PRESIDENT,
AMERICAN HEART ASSOCIATION

Several initiatives have been instituted to address the inactivity problem. For example, the National Physical Activity Plan aims to increase activity among all segments of the American population through policy changes and programs.⁶ Move Your Way is the promotional campaign for the second edition of the Physical Activity Guidelines for Americans.⁷ The Presidential Youth Fitness Program provides educators with tools and information to achieve quality fitness education and assessment practices.⁸ MOVE!

Exercise 8.1 Explore American College of Sports Medicine Website

Explore the American College of Sports Medicine (ACSM), a leading organization in sports medicine, exercise science, and physical activity, at www.acsm.org.

In your journal, describe two of your impressions about ACSM after exploring the website. As a nutrition counselor, explain how you might use the site.

is a national weight management program designed for veterans.⁹ Healthy People 2020, a Department of Health and Human Services initiative, identifies **physical activity** as a component of a healthy lifestyle.¹⁰ In addition, the National Association for Health and Fitness, a nonprofit organization supporting a network of state and governor's councils, promotes worksite fitness programming.¹¹

8.2 Role of Nutrition Counselor in Physical Activity Guidance

Recognizing that physical activity is an integral part of overall health, the 2019 Academy of Nutrition and Dietetics' National Nutrition Month campaign focused on sound eating and physical activity habits. Because physical activity is a primary strategy for the management of chronic diseases and reducing the risk of coronary heart disease, hypertension, diabetes, and osteoporosis, nutrition counselors need to be knowledgeable about the principles of exercise and utilize these principles with clients.^{1,12} In addition, The 2009 Position of the American Dietetic Association (ADA): Weight Management states, "RDs must remain current on topics related to the treatment and management of patients with obesity, including the knowledge and skills that are required to counsel patients about physical activity."¹³ Exercise Is Medicine® (EIM) encourages all health care providers to assess and counsel all patients/clients in achieving the physical activity recommendations outlined in the Physical Activity Guidelines for Americans. EIM is a multi-organizational initiative launched by the American College of Sports Medicine (ACSM) and the American Medical Association (AMA).¹⁴

Clients are asking nutritionists about physical activity. A survey of registered dietitians revealed that a majority (81 percent) advise their patients/clients on physical activity.¹⁵ To incorporate physical activity planning into nutrition counseling effectively, a counselor needs the following:

1. **A basic knowledge about the relationship between physical activity and health.** Information on the relationship can be obtained from course work, readings, and attendance at professional meetings. Most of the professional organizations, government health programs, and nonprofit health associations related to physical activity have educational websites and materials (see the end of the chapter; Internet Resources). Nutrition counselors could consider enhancing their skills by obtaining additional training and credentials in the area of physical activity. Possibilities include the American College of Sports Medicine (ACSM) certification, the American Council on Exercise (ACE)

certification, and the Commission on Dietetic Registration board-certified specialist in sports dietetics.

2. **Collaboration with physical activity professionals.** Many nutrition professionals use the services of counterparts in physical activity for information and guidance. Opportunities for interaction are often available in fitness facilities and at physical activity professional meetings.
3. **Referral resources.** Nutrition counselors should keep a list of physical activity professionals, diabetes educators, professional organizations, fitness facilities,

and physicians with fitness knowledge. Nutrition counselors should know how to identify a fitness profession with a certification accredited by the National Commission for Certifying Agencies (NCCA). You can obtain referrals for accredited exercise professionals from the ACSM website by searching on their ProFinder™ link. Referrals to “certified fitness professionals should be made when a personalized exercise prescription and/or supervised activity is requested or recommended by the patient’s/client’s physician.”¹⁶ See Figure 8.1 for referral guidance.

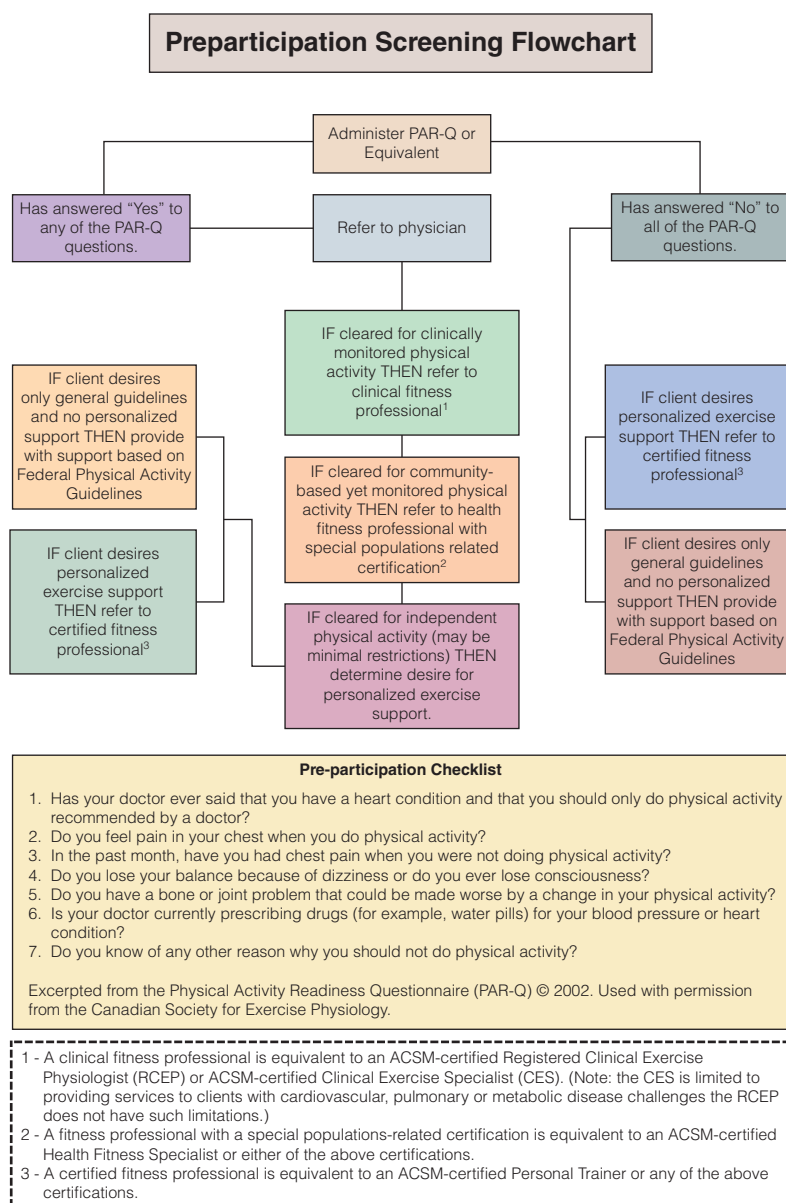


Figure 8.1 Preparticipation Screening Flowchart

Source: A Physical Activity Toolkit for Registered Dietitians: Utilizing Resources of Exercise Is Medicine®. Available at: www.exerciseismedicine.org/assets/page_documents/WM%20EIM%20Toolkit%202013%20FINAL.pdf

4. **Educational resources for clients.** Nutrition counselors should have educational materials for their clients. Fact sheets and pamphlets are available from many government and professional organizations. See the resources at the end of the chapter.

8.3 Physical Activity and Fitness

Physical activity is defined as any bodily movement provided by the contraction of skeletal muscle that increases energy expenditure above a basal level.¹ **Physical fitness** relates to a set of performance and health-related attributes connected to the ability to perform activity. Performance-related attributes include agility, balance, coordination, power, and speed.¹ Four health-related attributes of physical fitness includes aerobic fitness (ability to take in and use oxygen for energy), body composition (amount of fat tissue as compared to other body tissue), muscle fitness (**strength** and **endurance** of your muscles), and **flexibility** (ability to bend joints and stretch muscles).¹⁷

Aerobic activities involve moving large muscles over a sustained period, generally 30 minutes or more, and require oxygen to provide energy. **Anaerobic** activities do not need oxygen for energy as occurs during high-intensity exercise or at the beginning of sustained aerobic activities.

Benefits of Regular Physical Activity

Physical activity has a favorable effect on musculoskeletal, cardiovascular, respiratory, endocrine systems, and

mortality. Poor diet and lack of exercise have been identified as the second leading actual cause of death in the United States. See Figure 8.2. Of the 2.5 million Americans who died in 2005, physical inactivity was responsible for one in ten deaths.¹⁸ Related to this finding is the detriment of sedentary behavior.¹⁹ High amounts of inactivity, such as sitting time, screen time, or low counts on an activity monitor, are related to all-cause mortality and increased risk of cardiovascular disease (CVD), type 2 diabetes, and certain cancers. Physical activity is useful for the prevention, treatment, and management of more than forty of the most common chronic health conditions in adults.¹⁴ Regular physical activity can benefit health in the following ways:

- **Lower risk of early death.** Strong scientific evidence shows that physical activity reduces the risk of premature death (dying earlier than the average age of death for a specific population group). Even moderately active individuals have a lower mortality than sedentary individuals. One study found that a daily two-mile walk (approximately 4,000–5,000 steps) could add years to a person's life.²⁰ People who are active for 150 minutes a week have a 33 percent lower risk of all-cause mortality than those who are not active.¹
- **Improve cardiorespiratory health.** This category refers to health of the heart, lungs, and blood vessels. Physically active people have a substantially lower overall risk for coronary heart disease, stroke,

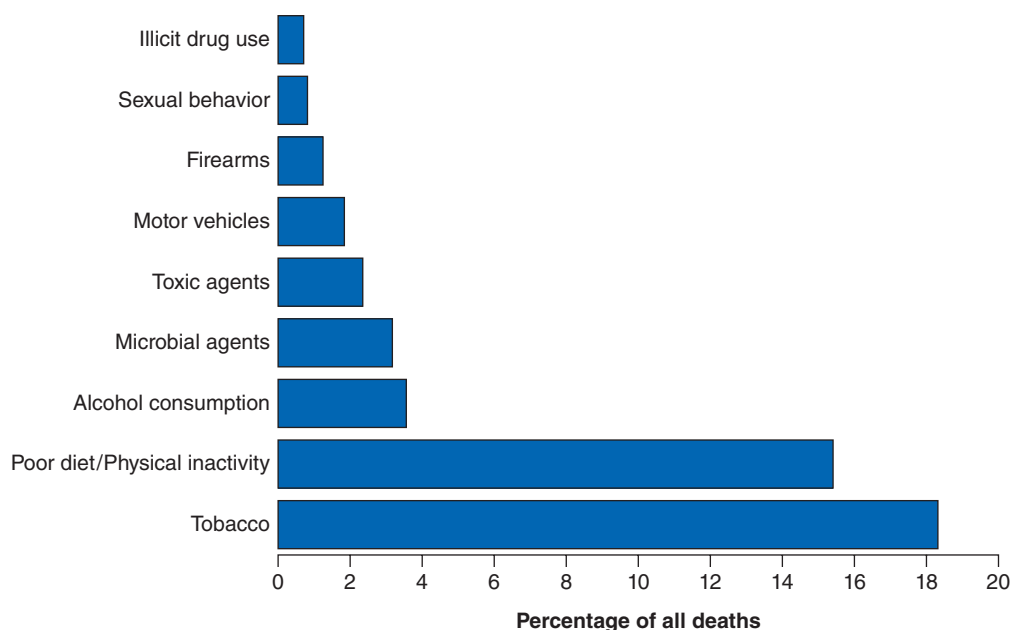


Figure 8.2 Actual Causes of Death, United States

Source: Mokdad, A. H., Marks, J. S., Stroup, D. F., Gerberding, J. L. Actual causes of death in the United States, 2000. *J Am Med Assoc.* 2004; 291:1238–1245.

and heart failure. This favorable effect is thought to be due to larger coronary arteries and increased heart size and pumping capacity. As the heart becomes more efficient, heart rates decline, resulting in resting rates of about 60 beats per minute in trained athletes. Also, regular physical activity decreases serum triglyceride and increases levels of high-density lipoprotein (HDL), a cholesterol-carrying blood protein associated with a lower risk of cardiovascular disease. Recurrent physical activity has been shown to prevent or delay the onset of high blood pressure, and regular exercise reduces blood pressure in people with hypertension.²¹ Resistance exercise appears to be particularly beneficial.²²

- **Lower risk of developing type 2 diabetes.** Physically active muscles enhance insulin sensitivity, readily accept glucose, and lower blood glucose levels. As a result, regular physical activity lowers the risk of developing type 2 diabetes and helps control blood sugar levels for those who have the condition. A prospective twin-pair study established that even small amounts of physical activity compared with sedentariness play a significant role in reducing or postponing the occurrence of type 2 diabetes.²³ This benefit of exercise occurs in people of all body sizes.¹
- **Weight control.** Regular physical activity is inversely related to the rate of weight gain with age and plays a key role in long-term weight control and/or maintenance of weight loss. The amount of exercise associated with maintenance of weight loss varies among individuals. Many need more than the minimum recommendation of 150 minutes a week and moderate or vigorous aerobic exercise is more effective than muscle strengthening activities.^{1,24} Another advantage of regular physical activity for adults and children is the favorable effect on body fat distribution away from the abdominal area, which is associated with the development of several chronic diseases.²⁵
- **Reduced risk of cancer.** In general, regular exercise is associated with lower rates of cancer. In particular, there is a reduced risk of eight types of cancer: bladder, breast, colon, endometrial, esophageal, kidney, renal, and gastric.^{1,26} Also, patients who exercised after a cancer diagnosis had a lower relative risk of cancer mortality and recurrence and experienced fewer and less severe adverse effects.²⁷
- **Bone and musculoskeletal health.** Physical activity, especially weight-bearing exercise, produces a force on the bones that contributes to enhanced skeletal structure and helps protect against age-related bone loss.²⁸ Examples of bone-strengthening

Exercise 8.2 Survey of Perceptions of Benefits of Physical Activity

Interview three people who do not exercise regularly. Ask each his or her beliefs about the benefits of exercise. Review the Benefits of Regular *Moderate* Physical Activity fact sheet, Lifestyle Management Form 8.1 (Appendix C), with the interviewee. Ask the individuals for their reactions. Record your observations in your journal.

activity include jumping jacks, running, brisk walking, and weight-lifting exercises.

- **Functional ability and fall protection.** By engaging in balance, strength, and flexibility training, older individuals reduce the risk of falls and maintain functional ability, the capacity to perform everyday activities. Having the ability to do such activities as climbing stairs, shopping, and making meals allows elderly persons to live independently. Falls among older individuals can be debilitating. Research studies on physical activity to prevent hip fracture show that participating in 120 to 300 minutes a week of moderate levels of activity, including walking, is associated with a substantially lower risk of hip fracture in older adults.²⁹ A review of research found that aerobic, muscle-strengthening, and/or multicomponent physical activity programs provided the largest improvements in physical function for older people with frailty or Parkinson's disease.³⁰
- **Brain health.** Greater amounts of physical activity are associated with a reduced risk of developing cognitive impairment including Alzheimer's disease.³¹ Physical activity counters anxiety and depression and improves sleep, cognition, mood, and the ability to cope with stress. These benefits may be due to chemical alterations in concentration and activity of dopamine, norepinephrine, and serotonin. Also, the release of a morphine-like substance may contribute to relief of pain and a feeling of euphoria.³²

Injury Risks Associated with Exercise

Although there are numerous health benefits to a physically active lifestyle, some injury risks and other adverse effects (overheating and dehydration) are associated with exercise.

- Sudden cardiac deaths, though extremely rare, are a serious concern. These occurrences are most often associated with primarily sedentary individuals who have preexisting coronary heart disease and engage in vigorous activity.¹ According to a review of research related to the benefits of physical activity and cardiovascular disease, "there is no evidence of excess

risk over the maximal effect observed at about three to five times the amounts associated with current guidelines.”³³ People who engage in regular physically activity have the lowest risk of cardiac events overall as well as while participating in exercise.¹

- Musculoskeletal injuries are the most common harmful side effect of physical activity. Such injuries can generally be prevented by gradually working up to the desired intensity level and avoiding excessive physical activity.¹

Exercise Myths

Clients may cite several myths about exercise to rationalize their inactivity:

- **Exercise causes arthritis.** Moderate physical activity is not associated with joint damage and in fact is recommended for individuals with arthritis during non-acute phases.¹
- **Working out with weights is only for men.** Strength training tones muscles without making women appear overly muscular or “bulked up” like a professional male bodybuilder. There are

numerous benefits of strength training for both men and women, including greater bone density, muscle strength, and balance.

- **It is dangerous for older people to start exercising.** All people can benefit from regular physical activity. Even people in a nursing home as old as 98 have been able to improve their walking speed and ability to climb steps.³⁴

8.4 Physical Activity Goals

The most recent government guidelines regarding physical activity can be found in the 2018 Physical Activity Guidelines for Americans.¹ This document provides guidance for people in a wide range of ages (3 and up) and those with special needs. Also included is information on the types and amounts of physical activity that afford substantial health benefits based on sound scientific evidence. Movement throughout the day is encouraged. A summary of the guidelines can be found in Table 8.1. The following provides a description of four levels of aerobic physical activity used in the guidelines:

Table 8.1 A Summary of the Physical Activity Guidelines for Americans

Category	Key Guidelines
Preschool Children	<ul style="list-style-type: none"> • Children (ages 3 through 5 years) should be physically active throughout the day to enhance growth and development. • Adult caregivers of preschool-aged children should encourage active play that includes a variety of activity types.
Children and Adolescents	<ul style="list-style-type: none"> • Provide young people opportunities and encouragement to participate in physical activities that are appropriate for their age, are enjoyable, and offer variety. • Children and adolescents ages 6 through 17 years should do 60 minutes (1 hour) or more of moderate-to-vigorous physical activity daily: <ul style="list-style-type: none"> – Aerobic: Most of the 60 minutes or more per day should be either moderate- or vigorous intensity aerobic physical activity and should include vigorous-intensity physical activity on at least three days a week. – Muscle-strengthening: As part of their 60 minutes or more of daily physical activity, children and adolescents should include muscle-strengthening physical activity on at least three days a week. – Bone-strengthening: As part of their 60 minutes or more of daily physical activity, children and adolescents should include bone-strengthening physical activity on at least three days a week.
Adults	<ul style="list-style-type: none"> • Adults should move more and sit less throughout the day. Previous recommendations concentrated on obtaining at least 10 minutes of movement to obtain positive health outcomes.³⁵ Now the guidelines state that some physical activity is better than none. Adults who sit less and do any amount of moderate-to-vigorous physical activity gain some health benefits. • For substantial health benefits, adults should do at least 150 minutes (2 hours and 30 minutes) to 300 minutes (5 hours) a week of moderate-intensity, or 75 minutes (1 hour and 15 minutes) to 150 minutes (2 hours and 30 minutes) a week of vigorous-intensity aerobic physical activity, or an equivalent combination of moderate- and vigorous-intensity aerobic activity. Preferably, aerobic activity should be spread throughout the week. • Additional health benefits are gained by engaging in physical activity beyond the equivalent of 300 minutes (5 hours) of moderate-intensity physical activity a week. • Adults should also do muscle-strengthening activities of moderate or greater intensity and that involve all major muscle groups on two or more days a week, as these activities provide additional health benefits.

(continued)

Table 8.1 A Summary of the Physical Activity Guidelines for Americans (*continued*)

Category	Key Guidelines
Older Adults	<p>The key guidelines for adults also apply to older adults. In addition, the following key guidelines are just for older adults:</p> <ul style="list-style-type: none"> As part of their weekly physical activity, older adults should do multicomponent physical activity that includes balance training as well as aerobic and muscle-strengthening activities. Older adults should determine their level of effort for physical activity relative to their level of fitness. Older adults with chronic conditions should understand whether and how their conditions affect their ability to do regular physical activity safely. When older adults cannot do 150 minutes of moderate-intensity aerobic activity a week because of chronic conditions, they should be as physically active as their abilities and conditions allow.
Adults with Chronic Conditions	<ul style="list-style-type: none"> Adults with chronic conditions or disabilities, who are able, should do at least 150 minutes (2 hours and 30 minutes) to 300 minutes (5 hours) a week of moderate-intensity, or 75 minutes (1 hour and 15 minutes) to 150 minutes (2 hours and 30 minutes) a week of vigorous-intensity aerobic physical activity, or an equivalent combination of moderate- and vigorous-intensity aerobic activity. Preferably, aerobic activity should be spread throughout the week. Adults with chronic conditions or disabilities, who are able, should also do muscle-strengthening activities of moderate or greater intensity and that involve all major muscle groups on two or more days a week, as these activities provide additional health benefits. When adults with chronic conditions or disabilities are not able to meet the above key guidelines, they should engage in regular physical activity according to their abilities and should avoid inactivity. Adults with chronic conditions or symptoms should be under the care of a health care provider. People with chronic conditions can consult a health care professional or physical activity specialist about the types and amounts of activity appropriate for their abilities and chronic conditions.
Women During Pregnancy and the Postpartum Period	<ul style="list-style-type: none"> Women should do at least 150 minutes (2 hours and 30 minutes) of moderate-intensity aerobic activity a week during pregnancy and the postpartum period. Preferably, aerobic activity should be spread throughout the week. Women who habitually engaged in vigorous-intensity aerobic activity or who were physically active before pregnancy can continue these activities during pregnancy and the postpartum period. Women who are pregnant should be under the care of a health care provider who can monitor the progress of the pregnancy. Women who are pregnant can consult their health care provider about whether or how to adjust their physical activity during pregnancy and after the baby is born.

Source: Adapted from 2018 Physical Activity Guidelines for Americans, U.S. Department of Health and Human Services. Available at <https://health.gov/PAGuidelines/>. Accessed June 19, 2019.

8.5 Levels of Aerobic Physical Activity

- Inactive** is not getting any moderate- or vigorous-intensity physical activity beyond basic movement from daily life activities. This level is associated with increased risk for chronic health conditions.
- Insufficiently Active** refers to doing some moderate- or vigorous-intensity physical activity but less than 150 minutes of moderate-intensity physical activity a week or 75 minutes of vigorous-intensity physical activity or the equivalent combination. There are some health benefits but this level is less than the target range for meeting the key guidelines for adults.
- Active** is doing the equivalent of 150 minutes to 300 minutes of moderate-intensity physical activity a week and meets the key guideline target range for adults.
- Highly active** is doing the equivalent of more than 300 minutes of moderate-intensity physical activity

a week. This level exceeds the key guideline target range for adults.

Moderate Physical Activity

Moderate physical activity refers to a caloric expenditure of approximately 750 kilocalories per week. To achieve this goal, the general recommendation is to engage in at least 30 minutes of moderate physical activity (about 150 kilocalorie activity) five days a week. However, the nature of the activity alters the time requirement. The time needed for less-intense activities needs to be longer to expend 150 kilocalories, and the time required to use this amount of energy during strenuous activities is reduced (see Exhibit 8.1).

Vigorous Physical Activity

Although moderate activity is beneficial, there are cardiovascular advantages to engaging in vigorous

Exhibit 8.1 Examples of 150 Kilocalorie Activities

A moderate amount of physical activity is roughly equivalent to physical activity that uses approximately 150 kilocalories of energy. Some activities can be performed at various intensities; the suggested durations correspond to expected intensity of effort.

Less Vigorous, More Time (in descending order)

Washing and waxing a car for 45–60 minutes
 Washing windows or floors for 45–60 minutes
 Playing volleyball for 45 minutes
 Playing touch football for 30–45 minutes
 Gardening for 30–45 minutes
 Wheeling self in wheelchair for 30–40 minutes
 Walking 1¾ miles in 35 minutes (20 minutes/mile)
 Basketball (shooting baskets) for 30 minutes
 Bicycling 5 miles in 30 minutes
 Dancing fast (social) for 30 minutes
 Pushing a stroller 1½ miles in 30 minutes
 Raking leaves for 30 minutes
 Walking 2 miles in 30 minutes (15 minutes/mile)
 Water aerobics for 30 minutes
 Swimming laps for 20 minutes
 Wheelchair basketball for 20 minutes
 Basketball (playing a game) for 15–20 minutes
 Bicycling 4 miles in 15 minutes
 Jumping rope for 15 minutes
 Running 1½ miles in 15 minutes (10 minutes/mile)
 Shoveling snow for 15 minutes
 Stair climbing for 15 minutes

More Vigorous, Less Time (in ascending order)

Source: U.S. Department of Health and Human Services (USDHHS), Physical Activity and Health: A Report of the Surgeon General. Atlanta: Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, 1996 (<http://www.cdc.gov/nccddphp/sgr/sgr.htm>).

physical activities involving large muscle groups. **Vigorous physical activity** has been defined as exercise that elevates an individual's heart rate to 70 percent of maximum; however, authorities caution sedentary, unfit individuals to aim for a lower level of 50 percent³⁶ or 55 to 64 percent.²⁸ These activities generally include bicycling (10 miles per hour or faster), cross-country skiing, jump roping, race-walking, running, stair walking, swimming, and vigorous dancing.

Methods to Determine Level of Exertion

Perceived Exertion The talk test is a simple method to estimate exercise intensity.

A physical effort of moderate intensity would be perceived as somewhat hard and the individual could talk but not sing. Someone involved in a vigorous activity would not be able to say more than a few words without pausing for breath.¹⁷

Heart Rate Another common method used to determine level of exertion is to measure heart rate during or immediately after exercise, and compare that rate to a *target heart rate* or a target zone. Your target heart rate is your recommended heart rate for exercising. Some authorities prefer to recommend a range of heart rates, referred to as a target zone. If you are exercising above the target heart rate or zone, you are exercising too vigorously; if you are exercising below that level, you are not exercising strenuously enough.

Although various monitoring devices are available to measure heart rate, the usual procedure is to simply take a 10-second pulse at the base of the neck or the wrist. The following steps explain how to determine an appropriate target heart rate or target zone:

1. First, ascertain the **maximum heart rate** (MHR). You can determine the MHR from a chart (see Table 8.2) or by direct calculations. The following is an easy, conservative formula for estimating maximum heart rate:
 - $220 - \text{your age} = \text{MHR}$
 - Note that some medications, such as beta-blockers, lower the MHR. If you have a client taking a beta-blocker, a physician should be contacted to determine whether the calculations need to be adjusted. To avoid the calculation difficulties for such people, perceived exertion is often the preferred method of monitoring intensity of physical activity.
2. Next, select a desired level of exertion. Less fit individuals should generally work at an intensity level of 50 to 70 percent of maximum heart rate, whereas physically fit individuals can aim for higher bouts of intensity of 70 to 85 percent of maximum heart rate.³⁶
3. A heart rate that corresponds to a particular percentage of MHR can be calculated or read off a standardized chart to determine the target heart rate or the target zone. See Table 8.2 for a chart and Exhibit 8.2 for calculation instructions.

Muscular Strength

The American College of Sports Medicine recommends performing activities that maintain or increase muscular strength for a minimum of two days each week.

Table 8.2 Maximum Heart Rate (MHR) and Target Heart Rate Zone

AGE	MHR	Target Zone 50%–70% MHR		Target Zone 70%–85% MHR	
		BPM	10 S	BPM	10 S
20	200	100–140	17–23	140–170	23–28
30	190	95–133	16–22	133–162	22–27
40	180	90–126	15–21	126–153	21–26
50	170	85–119	14–20	119–145	20–24
60	160	80–112	13–19	112–136	19–23
70	150	75–105	13–18	105–128	18–21

*BPM = beats per minute; S = seconds.

Recommendations include at least 8 to 10 different exercise sets of resistance (weight) training on two nonconsecutive days. Each exercise includes 2 to 4 sets of 8 to 12 repetitions working major muscle groups (arms, shoulders, chest, trunk, back, hips, and legs).¹⁷

Exhibit 8.2 Calculation of Target Heart Rate and Target Zone

Target Zone

Example: Calculation of the target zone of a less fit individual who is 52 years old.

First, maximum heart rate (MHR) must be determined:
 $220 - 52 = 168$ MHR. Less fit individuals should be working at 50 to 70 percent of MHR.

50% MHR = $168 \times 0.50 = 84$ beats per minute
 (10 seconds = $84 \div 6 = 14$ beats)

70% MHR = $168 \times 0.70 = 118$ beats per minute
 (10 seconds = $118 \div 6 = 20$ beats)

**Target Zone = 84 to 118 beats per minute
 or 14 to 20 beats in 10 seconds**

Target Heart Rate

Individuals can select a specific heart rate to aim for during exercise. For example, a 52-year-old may have been rather sedentary so should aim for a lower level. If 52 percent of MHR was selected, then the target heart rate can be calculated as follows:

52% MHR = $168 \times 0.52 = 87$ beats per minute
 (10 seconds = $87 \div 6 = 15$ beats)

**Target Heart Rate = 87 beats per minute
 or 15 beats in 10 seconds**

All age groups can benefit from strength training; however, the advantages to older individuals seem particularly significant. Among the benefits are the ability to remain independent in performing routine daily activities, preserving bone, and reducing the risk of falling.¹⁷

For weight training, healthy adults should be referred to an exercise specialist to receive proper guidance. Adults with disabilities and chronic conditions should be under the care of a health care provider for guidance regarding appropriate types and amounts of activity.

Flexibility

Stretching exercises improve flexibility (range of motion), preventing the development of rigid joints by improving the elasticity of muscles, tendons, and ligaments. Flexibility affects many aspects of life, including walking, stooping, sitting, avoiding falls, and driving a vehicle. Older adults particularly benefit from continued physical function contributing to independent living.

Static stretching is often incorporated into warm-up and cool-down periods of aerobic activity. Popular longer programs that can greatly impact flexibility include yoga and T'ai Chi Chuan. The ACSM recommends stretching exercises two to three times a week.¹⁷

Exercise 8.3 Calculate a Target Heart Rate and Target Zone

Select a desired intensity level of exertion for yourself. Calculate the corresponding target heart rate and a target zone.

☐ Record the calculations in your journal.

Exercise 8.4 Record Your Physical Activity Patterns

Record your physical activities for seven days in the Physical Activity Log, Lifestyle Management Form 8.2 (see Appendix C). Compare your level of activity to the examples of moderate amounts of activity listed in Exhibit 8.2.

☐ Record your reaction to the activity and the evaluation in your journal. What did you learn from this assignment? Do you meet the 2018 Physical Activity Guidelines for your age group? (See Table 8.1.) Explain. Do you have any interest in making changes in your activity pattern? Explain.

Exercise 8.5 Survey of Physical Activity Barriers and Benefits

Survey five people who do not engage in regular physical activity. Ask them why they are not physically active. Survey another five people who have a regular exercise program. Ask them how they have overcome barriers to fitting in physical activity and what they believe motivates them personally.

- ❑ Record responses to your survey in your journal. How did your findings compare to the most common physical activity barriers identified in this chapter?

8.6 Barriers to Becoming Physically Active

A major reason for the decline in physical activity in the past few decades is our high-tech society.³⁷ A great deal of time is spent behind a computer monitor or in front of a television instead of toiling on a farm or doing physical chores. An evaluation of fifty-six structured exercise programs revealed that 50 percent of people who start the programs drop out within the first 6 months.³⁸ The most common barriers to becoming physically active are lack of time, access to convenient exercise facilities, and safe environments in which to be active. Other common barriers are lack of energy, motivation, and skills; fear of injury; family obligations; and weather conditions.³⁹

By discovering what matters most to your clients, you will be able to guide your clients toward physical activity programs and messages that they want and need. Lifestyle Management Form 8.3 (Appendix C), Physical Activity Options, provides some suggestions for overcoming barriers.

8.7 Physical Activity Counseling Protocols

Counseling approaches for changing physical activity behaviors need to be tailored to a client's motivational level. The Exercise is Medicine initiative of the American College of Sports Medicine recommends that health care providers assess and review every client's physical activity level at every visit. Protocols developed for health professionals, physicians, and dietitians^{14,40,41} have been adapted here for nutrition counselors, and selected motivational interviewing strategies have been incorporated in the physical activity motivational counseling algorithm in Figure 8.3.^{42,43}

In Chapter 4, the nutrition counseling algorithm branched into three pre-action counseling approaches addressing the needs of the majority of individuals who seek guidance for a nutritional lifestyle change. Although many clients are also in a pre-action readiness stage for physical activity, the physical activity algorithm presented in Figure 8.3 has a fourth branch to accommodate clients who are already physically active and may even be participating in vigorous sports. The counseling branches are presented as distinct approaches, but counselors need to be flexible to accommodate fluctuation in readiness to change that may occur during a counseling intervention. Such cases will require a crossover of counseling strategies among the four approaches.

8.8 Assessments of Physical Activity

One of the first tasks for physical activity counseling will be to assess clients' physical activity status, medical readiness, and their motivation to change.

Physical Activity Status

The EIM action guides use a three-step algorithm for assessment:

- Step One: Current Physical Activity Habits
- Step Two: Physical Activity Readiness Questionnaire (PAR-Q)
- Step Three: Stages of Readiness to Change

Current Exercise Status

Questions regarding current exercise habits have been incorporated into the Client Assessment Questionnaire, Lifestyle Management Form 5.1 found in Appendix C. Some clients come to counseling who are already physically active and may even be participating in vigorous sports such as marathon running or dancing. If this is the case, the nutrition counselor's responsibility will be to address any special nutritional needs related to their physical activity. An assessment of their physical activity status is still appropriate because they may not be meeting all the standards for muscle-strengthening, flexibility, and aerobic standards. Lifestyle Management Form 8.6 in Appendix C can be used as a quick assessment of physical activity status. Motivated clients who are not sure of their activity level may be willing to log their physical behaviors for a week. Most people find using a step counter to monitor activity simple to use. (See Lifestyle Management Form 8.2 in Appendix C.)

Physical Activity Readiness

Depending on motivation level, your role may be to help your client become aware of the importance of physical

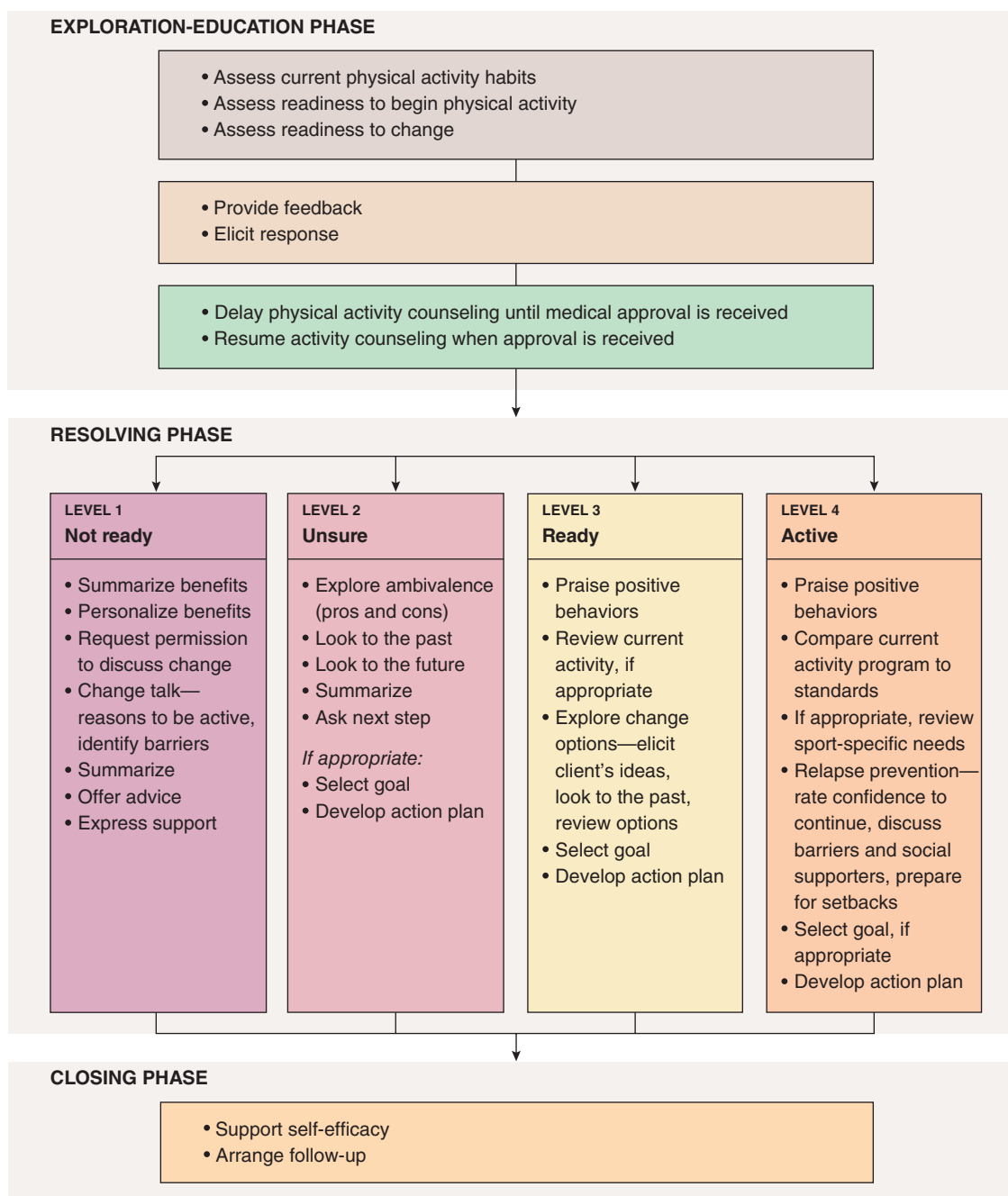


Figure 8.3 Physical Activity Motivational Counseling Algorithm

Source: Adapted from Long, B., Woolen, W., Patrick, K., Calfas, K., Sharpe, D., Sallis, J., Project PACE Physician Manual. Atlanta: Centers for Disease Control, 1992.

activity, or it may be to provide guidance toward making physical activity lifestyle changes. If the latter is the case, you will need to assess whether a medical release or a referral is in order. The following provides some guidelines for handling this matter:

- **Physical Activity Readiness Assessment Questions.** A form frequently used to assess readiness

is the Physical Activity Readiness Questionnaire (PAR-Q). It was developed by the British Columbia Ministry of Health to guide individuals in deciding whether a medical assessment is necessary.⁴⁴ See Lifestyle Management Form 8.4 in Appendix C. If a client answers yes to any of the questions, then medical approval is required. However, for your professional safety, a medical release is always

advisable. The advantage of using these questions in your practice, even if a medical evaluation was a prerequisite, is to be sure that the medical professional is aware of any yes answers so he or she can provide a better assessment.

- **Medical release form.** If you are using a medical release form for all clients to whom you are offering nutrition counseling services, you may include a question asking whether there is any reason why an increase in moderate physical activity would be prohibited. See Lifestyle Management Form 8.5 in Appendix C for an example.
- **Delay physical activity.** Physical activity should be delayed in the following conditions:⁴⁴ women in the third trimester of pregnancy or who are experiencing a high-risk pregnancy or clients experiencing acute symptoms (such as fever) during an illness or infectious disease.
- **Referral to physical activity professional.** The Screening Flowchart in Figure 8.11 can help guide you when referral to a certified exercise specialist is needed. Such a referral is always useful, but it is essential in the following cases after receiving medical approval:
 - ☐ Clients with any symptoms of cardiovascular or metabolic disease
 - ☐ Clients recovering from coronary heart disease
 - ☐ Clients with severe bone or joint problems
 - ☐ Clients who begin an exercise program and experience dizziness, chest pain, undue shortness of breath, difficulty breathing, or unusual discomfort
- **Referral to a diabetes educator.** Coordinating food intake, medication, and the demands of physical exertion can be complex. The integration can usually be done successfully, but the guidance of a diabetes educator is advisable.

Stages of Readiness to Change

As with counseling about food issues, physical activity counseling techniques need to be adjusted to a client's motivational level. See the physical activity counseling algorithm in Figure 8.3. Stages of readiness to change are a component of Lifestyle Management Form 8.6 Physical Activity Readiness, Assessment and Feedback Form found in Appendix C. A motivation assessment as described in Chapter 4 can assist in determining motivation for engaging in physical activity and, if needed, evaluating desire to increase activities regarding endurance, flexibility, strength, or balance.

Assessment Feedback

The procedure for giving feedback about physical activity status is similar to the guidelines given in Chapter 4 for explaining dietary status to a client. A physical activity evaluation form to aid in that feedback is provided, Lifestyle Management Form 8.6 (see Appendix C). The American College of Sports Medicine Guidelines⁴⁴ and 2018 Physical Activity Guidelines¹ provide the national standards for assessing personal physical activity habits in this form.

While giving feedback, the objective is to create an environment of self-discovery in which clients can judge whether their present physical activity habits are congruent with where they would like to be. If an individual perceives a discrepancy, motivation to change is likely to increase. The procedure for giving feedback is as follows:

- **Give clear, concise, nonjudgmental feedback.** The completed assessment form should not be simply handed to a client but should have gone over point-by-point with no hint of criticism.
- **If appropriate, elaborate on the assessment.** If your client shows concern or interest, certain components of the assessment may require elaboration. For example, clients may wish to have a description of the organizations that set the national standards or an explanation of the stages of change model. At this time it may be helpful to have on hand Lifestyle Management Form 8.1 (Appendix C), Benefits of Regular Moderate Physical Activity, and Lifestyle Management Form 7.5 (Appendix C), Prochaska and DiClemente's Spiral of Change.

Counselor: *The national standards used for this form were taken from the 2018 guidelines of the American College of Sports Medicine, the premier international organization of fitness experts and sports medicine scientists, and from the 2018 Physical Activity Guidelines for Americans, a document of the Department of Health and Human Services that provides science-based recommendations that physical activity offers substantial health benefits.*

- **Elicit client response.** This is an opportunity for clients to make self-motivational statements. Counselors should not inform clients as to how they ought to feel, but rather should encourage clients to express their thoughts and be allowed to form their own conclusions.

Counselor: *What do you think about this evaluation?*

Does this information surprise you?

- **Summarize.** At the end of an assessment feedback, the counselor summarizes what transpired during this period. The summary should include (1) risks or problems that were identified; (2) client reactions, including self-motivational statements; and (3) a request for the client to add or correct your summary.

Counselor: *Daniel, the medical release form signed by your doctor did not indicate a need to avoid an increase in moderate physical activity, nor did your answers on the Physical Activity Par-Q form. As for most people in North America, your present level of physical activity fell short of national standards for endurance, flexibility, and strength. Your motivation level for increasing physical activity was found to be unsure, which means you are thinking about a change but have not made a firm commitment to increase physical activity. You also said, "I guess I have a problem here." Does this seem to be where we are? Is there anything you would like to add or correct?*

8.9 Resolving Phase Protocols

After completing an assessment of your client's physical activity status, medical readiness to begin or increase physical activity, and motivation to make an activity behavior change, you are ready to begin the resolving phase. Your counseling approach for this phase will be determined by a motivational readiness assessment. Table 8.3 presents a summary of resolving phase approaches for physical activity counseling for four levels of motivation.

Level 1—Not Ready to Change

(Numbers 1–3 on a 10-point motivational assessment)

The major objective of working with clients in this stage is to furnish a warm, nonjudgmental atmosphere while providing information and encouraging consideration of beginning an activity program.

Summarize Benefits of Physical Activity David Satcher, former U.S. Surgeon General, has stated, "Many Americans

Table 8.3 Resolving Phase: Physical Activity Counseling Approaches for Four Levels of Readiness

Readiness to Change		Counseling Approach
Not ready Level 1	Goal:	Raise doubt about present level of physical activity.
	Major task:	Inform and facilitate contemplation of change.
	Approach:	<ul style="list-style-type: none"> • Ask permission to discuss the importance of physical activity • Summarize benefits of physical activity. • Personalize benefits to health status. • Request permission to discuss change. • Ask key open-ended questions to promote change talk. • Elicit personal reasons to be active. • Elicit identification of barriers to physical activity. • Summarize. • Offer professional advice, if appropriate. • Express support.
Unsure Level 2	Goal:	Build motivation and confidence.
	Major task:	Explore ambivalence.
	Approach:	<ul style="list-style-type: none"> • Ask permission to discuss the importance of physical activity. • Ask key open-ended questions to explore ambivalence. • Client identifies advantages of present inactive behavior. • Client explores consequences of inactivity. • Client identifies hoped-for benefits. • Look to the past. • Look to the future. • Summarize ambivalence. • Ask about next step. • Consider setting a goal as an experiment.

(continued)

Table 8.3 Resolving Phase: Physical Activity Counseling Approaches for Four Levels of Readiness (*continued*)

Readiness to Change		Counseling Approach
Ready Level 3	Goal:	Negotiate a specific plan.
	Major task:	Resolve ambivalence and elicit a firm commitment.
	Approach:	<ul style="list-style-type: none"> • Praise positive behaviors. • Review current activity program, if appropriate. • Explore change options. • Elicit client's ideas for change. • Look to the past. • Review options that have worked for others, if needed. • Client selects an appropriate activity goal. • Develop an action plan.
Active Level 4	Goal:	Continue the activity program.
	Major task:	Prevent relapse.
	Approach:	<ul style="list-style-type: none"> • Praise positive behaviors. • Review current activity program. • Review sport-specific nutrient needs. • Prevent relapse. • Explain relapse prevention. • Client rates confidence in ability to continue. • Identify potential barriers. • Explore solutions to barriers. • Prepare for setbacks. • Identify social supporters. • Set goal and develop an action plan, if appropriate.

Source: Adapted from Long, B., Woolen, W., Patrick, K., Calfas, K., Sharpe, D., Sallis, J., Project PACE Physician Manual. Atlanta: Centers for Disease Control, 1992.

may be surprised at the extent and strength of the evidence linking physical activity to numerous health improvements." Lifestyle Management Form 8.1 (Appendix C), a fact sheet addressing this concept, could be reviewed during your session to increase awareness.

Counselor: *Even though exercise seems to be a media buzzword, many people are not aware of the multiple ways that even a moderate amount of physical activity can benefit health.*

Personalize Benefits to Health Status Clients probably know that being physically active is a good idea, but they may feel that with so many important things to do in life, it is hard to make exercise a priority. Your clients may not have thought how increasing their activity level could benefit them personally.

Counselor: *Mrs. Bernstein, physical activity could be particularly beneficial for you because it would help lower your blood pressure and aid in your effort to lose weight. Brisk walking just three times a week could produce results. You said you had some trouble*

sleeping at night. Increasing your activity could also help you fall asleep more quickly and to sleep well.

Ask Key Open-Ended Questions to Promote Change Talk Helping clients think and talk about change can assist in the development of motivation to change. However, because the client has already indicated no desire to change, it is generally best to begin this discussion tentatively, requesting permission to discuss the issue.

Counselor: *Would you be willing to continue our discussion and talk about the possibility of a change in your physical activity level?*

- **Elicit personal reasons to be active.** People are often more likely to be persuaded to change if they are presenting the arguments for change.⁴⁵

Counselor: *We've looked at a list of reasons to have at least a moderate amount of physical activity in your life. If you were to start an exercise program, which of the following benefits do you think would most likely apply to you?*

On a scale of 1 to 10, with number 1 being no increase in physical activity and 10 being “yes, I will start,” what number would you select? That is interesting that you chose the number 2. Why not number 1?

- **Elicit identification of barriers to physical activity.** People at this motivational level may have given little serious thought to why they do not become more involved in physical activity. Having clients identify reasons could lead to discussions of overcoming physical activity barriers. Physical Activity Options, Lifestyle Management Form 8.3 (see Appendix C), could be useful to review during this discussion. King suggests assessing a client's psychological relationship to physical activity as a possible barrier.⁴⁶ Negative feelings about exercise may have arisen from past embarrassments, punishments, or weight loss failures. Sometimes a negative physical experience, such as an injury or violation of the body, can hamper exercise attempts. If this is the case, then the issue should be explored with a psychotherapist. King also encourages the use of the term *joyful movement* for exercise to enhance a pleasurable perspective.⁴⁶

Counselor: *You chose number 2 on the scale. Why didn't you choose 4? What would have to change for you to select 4? Is there something I could do to help you get to 4?*

What would have to change for you to consider increasing the amount of joyful movement in your life?

Summarize Summaries help reinforce what has been said, tying together various aspects of a discussion. They indicate to clients that you have been closely listening to them and are preparing them to move on to a new topic. They encourage clients to rethink their position.

Give a summary of reasons not to change first and then give a summary of reasons to change. End your summary with any self-motivational statements your client may have made during the discussion and a “what's next?” question.

Counselor: *Juanita, I'd like to review what we have talked about regarding physical activity. We looked at some of the benefits of being physically active, and you said you were surprised that health benefits could be attained with much less effort than you thought. You indicated that your biggest obstacles to beginning a physical activity program are finding time in your already busy schedule and that you have never found exercise to be enjoyable. I gave you some reading material to help you think about how to fit physical activity into your life, and you said you would look it over.*

You also said that increasing physical activity is something you should probably give some thought to. Was that a fair summary? Did I leave anything out? Where does all this leave us now?

Be prepared to fully accept any answer to the “Where does all this leave us now?” question. Do not jump on a halfhearted ready-to-take action statement. In our eagerness to guide clients toward making a change, we may shift gears and move to the action stage too quickly. Instead, probe the issue further with more open-ended questions.

Counselor: *When you came in today, you indicated that you were not ready for a change, but now it appears that you are having a change of heart. Is that correct? So we don't start going down the wrong path, I want to be sure that is what you really want to do. What can you say to convince me?*

Offer Professional Advice, if Appropriate Well-timed and compassionate advice can aid in motivating behavior change. In the ideal situation, a client asks for advice, but if that is not the case, then the counselor can ask permission to give advice.

Counselor: *Obviously you know my opinion that starting a physical activity program is what you should do, but of course, only you really know what can work for you. Physical activity is important for everyone's health, and specifically for you, I believe this would help you with your desires to lose weight and lower your blood pressure. A common program is to start walking ten minutes, three times a week, and to increase walking time gradually. We could set the goal as an experiment to see how it works for you. What do you think?*

Express Support Several health authorities have documented that counselor expectations of a client's ability to change can produce a favorable outcome.⁴⁵

Counselor: *Only you know what will work for you and when you will actually be ready to start an exercise program. When the time is right, I know you will be able to do it. I want you to know that I respect your decision, and anytime you are ready, I'm available to help. If it is OK with you, I would like to bring up the topic periodically during our future sessions.*

Level 2—Unsure About Changing

(Numbers 4–6 on a 10-point motivational assessment)
At this stage, clients have not made a firm commitment to change. The task at hand for clients and counselors

is to build motivation and confidence.⁴⁵ The following provides a number of strategies to explore ambivalence for your review. How many you use in a counseling session is likely to vary depending on the desire of your client to explore the issues and what fits best with your personal counseling style.

Ask Key Open-Ended Questions to Explore Ambivalence

Exploring ambivalence is very important to help clients tip the scales in favor of making a change.⁴⁵ This involves exploring the pros and cons of changing physical activity patterns. Barriers to increasing physical activity need to be discovered in order to explore ways to effectively handle them. The fact sheet on physical activity options (Lifestyle Management Form 8.3 in Appendix C) could be useful to review during this discussion.

- Client identifies disadvantages of changing.

Counselor: *What do you believe are the reasons you haven't increased your level of physical activity?*

What problems would occur if you increased your level of physical activity?

What are some reasons why you would like things to stay just like they are?

- Client explores consequences of inactivity.

Counselor: *What concerns do you have about not increasing your level of physical activity?*

- Client identifies hoped-for benefits.

Counselor: *What are some reasons for increasing physical activity?*

What do you hope would be better for you if you increased your level of physical activity?

What are some good things that would happen if you were more physically active?

Look to the Past There may be skills and resources that have worked for your client in the past that can be used in the present to build a more physically active lifestyle.

Counselor: *Can you think of physical activities you have done in the past that have been enjoyable?*

Look to the Future By imagining the future, clients may be able to work out some ways physical activity could fit into their world and everyday life.

Counselor: *I can see why you have some concerns about increasing your level of physical activity. Could we just stand back and imagine that you have an optimum amount of physical activity in your life? What would your life be like?*

Summarize Ambivalence and Reiterate Self-Motivational Statements Periodic summaries throughout a counseling session can be useful for exploring ambivalence and for selectively emphasizing issues or self-motivational statements that could tip the balance in favor of making a change.

Counselor: *It sounds as if you have opposing feelings about exercise. On the one hand, you have difficulty seeing how you can find time to exercise, and when you do have time you don't have the energy or the motivation to begin. On the other hand, your weight and blood pressure have been creeping up over the last ten years, and you know that some exercise would help both problems. Before you had children, you used to enjoy bike rides with a cycling group on the weekends. You said, "With all the ways that exercise could help me, I should be able to find a way to make an exercise program work." Did I miss anything? What are you thinking about this?*

Ask About Next Step Ideally a client will be ready to select a goal and develop an action plan for increasing physical activity. However, you need to be ready to accept whatever direction your client wants to go about planning a change. For your client to experience intrinsic motivation to change, he or she must perceive the freedom to choose a course of action.⁴⁶ The fact is that few people like to be told what they must do. Feeling coerced into taking a certain course of action is likely to produce resistance, which is counterproductive to your counseling goals. If your client indicates that he or she would like to make a behavior change, then setting a goal and developing an action plan would be appropriate. You can explore with your client the possibility of setting a goal as an experiment to be evaluated during your next session. See Chapter 5 for an explanation of the process.

Counselor: *What do you think your next step should be?*

Level 3—Ready to Change

(Numbers 7–9 on a 10-point motivational assessment)

Individuals at this level of readiness have indicated that they are ready to make a change. When working with these clients, you should recognize that the objectives are to resolve any ambivalence, elicit a firm commitment to change, and develop specific goals and action plans.

Praise Positive Behaviors Some clients who are classified in this category have begun limited amounts of physical activity, and those attempts should be praised.

Counselor: *It is really great that you have been doing some physical activities and are ready to increase your level of exercise.*

Review Current Activity Program, if Appropriate Some people in this category have indicated that they are physically active on occasion. These activities may be expanded to develop a comprehensive program.

Counselor: *I see from your assessment form that you are physically active sometimes. What kinds of things do you do?*

Explore Change Options While exploring viable options for increasing physical activity, Berg-Smith et al. emphasize the need for a counselor to remain neutral while conveying the following messages to a client:⁴⁷

1. There are a number of physical activity options to choose among.
 2. You are the best judge of what will work.
 3. We will work together to review options.
- Elicit client's ideas for change.

Counselor: *I have a list of possible options for people who are initiating a physical activity program that we could go over, but you may already have definite ideas of what would work for you. After all, you are the best judge of what will work for you. What are you thinking?*

- Look to the past.

Counselor: *When have you enjoyed being physically active in the past?*

- Review options that have worked for others, if needed. Reviewing the Physical Activities Options Fact Sheet, Lifestyle Management Form 8.3 (Appendix C), could be useful.

Counselor: *Would you like to review the types of physical activities that have worked for others?*

Client Selects an Appropriate Physical Activity Goal The goal-setting process covered in Chapter 5 can be applied to physical activity. Emphasis should be placed on activities that your client finds convenient and enjoyable.

Develop an Action Plan The process of developing an action plan was covered in Chapter 5 and should be applied to physical activity.

Level 4—Physically Active

(Number 10 on a 10-point motivational assessment)

Some clients come to counseling sessions who are already physically active and may even be participating

in vigorous sports. When working with these clients, your major goal will be to have them continue with their program, and the major task will be to prevent relapse.

Praise Positive Behaviors As discussed in the previous stage, positive behaviors should be praised to encourage continuation of a physically active lifestyle.

Counselor: *It is wonderful that you have such a physically active lifestyle.*

Review Current Activity Program A physically active person may not be meeting all the guidelines for frequency, duration, intensity, flexibility, and strength training set by national standards. Any problem areas should be identified and addressed. If Lifestyle Management Form 8.6 (Appendix C) was not used for an assessment during the exploration-education phase of the counseling session, then you may wish to use it at this point to ensure that all aspects of fitness are covered.

Counselor: *You are meeting the standards for aerobic and flexibility activities. The standard for strength training is two times a week and you stated that you do strength training occasionally about once or twice a month. What do you think about this?*

Review Sport-Specific Nutrient Needs Clients may be engaging in a particular sport or at a level of intensity requiring special nutritional needs. These should be investigated and addressed with the client. For athletes, consider using The Athletes Plates graphics as a visual education tool. Three graphics were developed by the University of Colorado, Colorado Springs' Sport Nutrition Graduate Program in collaboration with the U.S. Olympic Committee's (USOC) Food and Nutrition Services for three training loads: training/weight management, moderate training, and hard training. See Figure 8.4 for a copy of the easy training/weight management graphic.

Clients may also have questions about possible **ergogenic aids** (substances, including medications and dietary supplements, or techniques and devices, that are intended to improve physical performance) they have heard about. As in many areas of nutrition, there is a continual influx of new claims and supplements in the sports arena. One person cannot possibly keep up with every one of them. When these issues arise, you should tell your client that you are not familiar with the specific claim, but you will use your professional resources to investigate. Many professional organizations involved in physical activity have websites with educational reviews of new claims (see the end-of-chapter resources for some possible websites to visit). Professional organization digital discussion lists can also be helpful for posting a question.



Figure 8.4 Athletes Plate: Easy Training/Weight Management Graphic

Counselor: *Do you have any questions about foods or supplements related to your physical activity program?*

Prevent Relapse A major task of counseling people at this level of motivation is relapse prevention. This can be addressed by helping your clients understand that perfection in a physical activity program should not be expected and setbacks do occur, but that does not need to be the cause of abandoning a physical activity program. Identifying potential barriers, preparing possible solutions for anticipated problems, and enlisting social support can also aid in relapse prevention.

- **Explain relapse prevention.** Often roadblocks that could interfere with continuation of a physical activity program can be anticipated, and preparations can be made to prevent a relapse.

Counselor: *You are doing really well in your physical activity program. The major task we have now in counseling is to work on making sure that your behavior continues. First, let's look at how confident you are that you can keep up this activity pattern.*

- **Client rates confidence in being able to continue.** Confidence in one's ability to be physically active is important to maintain an active lifestyle. This

confidence can be assessed with the confidence assessment graphic, Lifestyle Management Form 4.1 (Appendix C).

Counselor: *If we use the numbers on this picture to represent how confident you are that you can maintain your present level of physical activity for the next three months, what number would you select? Number "1" indicates not at all, and number "10" denotes very confident.*

- **Identify potential barriers.** An important component of preventing relapse is identification of potential barriers to continuing a physical activity program. By planning an effective response to an anticipated problem, the obstacle to continuing the program will be more easily overcome. Key questions about the client's number selection on the continuum can identify what concerns may be interfering with his or her self-confidence.

Counselor: *Why did you choose 8 instead of 10? What would have to change for you to select 10 instead of 8?*

What has prevented you from maintaining your physical activity program in the past?

- **Explore solutions to barriers.** When potential problems have been identified, your client should be encouraged to explore possible solutions.

Counselor: *You said vacations are a difficult time to maintain an exercise program. Do you have any ideas on how to overcome difficulties while traveling?*

- **Prepare for setbacks.** One important concept to explore with your client is that setbacks are common, are to be expected, and do not mean a total program should be abandoned.

Counselor: *In anyone's physical activity program, setbacks are to be expected. This could be because of illness, family responsibilities, work demands, house guests, or travel. Sometimes you can anticipate the difficulties and prepare for them, but other times continuing your physical activity program is simply not feasible. If this is the case, what is important is to just start up again as soon as possible.*

- **Identify Social Supporters.** Receiving social support has a key influence on physical activity levels.⁴⁸ Asking clients to identify social supporters and suggesting to clients to seek out their assistance is part of the successful PACE program.⁴⁰ Social support could come from loved ones giving words of encouragement or having someone to jog with on occasion. Social support can also come from organized groups, such as a canoe club. Counselors need to use their judgment about exploring this issue for someone who is heavily involved in an organized activity such as soccer or dancing in which social support is intrinsic to the activity. Social support should be encouraged, but the point should be made that starting and continuing a physical activity program cannot rely on outside individual.

Counselor: *You are doing so well with your physical activity program, and I hope you continue to do well. Getting support from friends or relatives has been found to be helpful in maintaining a program. Can you think of someone who could be supportive? It would really be great if there is someone who is also interested in working on increasing or maintaining his or her level of exercise with whom you could discuss your progress.*

Set Goals, if Appropriate Since some clients at this motivation level are heavily involved in a sport, goal planning may not be indicated. Follow Chapter 5 guidelines for goal setting, if necessary.

Develop an Action Plan, if Appropriate Development of an action plan would only be appropriate if a goal was

selected. Follow Chapter 5 guidelines for developing an action plan.

8.10 Issues Pertinent to Physical Activity Goal Setting and Action Plan Development

The following are some factors to consider that specifically apply to physical activity planning:

- **Initial goals should be modest.** To avoid soreness and injury and to maintain motivation, a sedentary individual contemplating an increase in physical activity should start with short sessions (five to ten minutes). The activity could be as simple as getting off a bus at an earlier stop or parking a car at the perimeter of the parking lot and walking the extra distance.
- **Increase gradually.** Injuries can be prevented by gradually building up to the desired amount of physical activity.
- **Take into consideration sustainable factors.** The physical activities chosen should meet the following criteria:

Enjoyable—Clients should be encouraged to think creatively. Enjoyable activities could include folk dancing, bike touring, gardening, stair climbing, kickboxing, or family fitness activities (examples: camping, dancing, flying a kite).

Safe—Safe areas can include community parks, gyms, pools, malls, and health clubs. If a safe location cannot be identified, then areas of the home should be evaluated for providing space for exercise equipment, such as a stationary bike or treadmill.

Convenient—For some people, increasing physical activity works best by including short activities throughout the day, such as using steps instead of an elevator or taking a short walk after lunch. If this routine is chosen, then goal selection and monitoring may require special consideration. Some people have used a pedometer attached to a belt. Depending on the quality of the device, clients can set goals and monitor their progress in terms of miles covered in a day or number of steps taken. Meta-analyses focused on pedometer-based programs conclude that the use of a pedometer is associated with significant increases in physical activity and significant decreases in body mass index and blood pressure.⁴⁹

Affordable—Usually a variety of community programs and facilities are located in schools, community colleges, and universities. In the United States, the Young Men's and Women's Christian Association provides an array of exercise programs for a modest cost. Also, many malls are available to walkers early in the morning before stores open.

Walking Basics

Walking is frequently suggested as an introductory exercise for sedentary individuals. This activity provides excellent cardiovascular and endurance advantages.⁵⁰ For most people, walking is inexpensive, accessible, safe, and enjoyable. The only expense is a pair of good walking shoes. Pedometers or step counters can be used to track progress for those using walking toward meeting physical activity goals. Studies indicate that individuals typically walk 5,000 steps a day.¹ Popular advice is to target 10,000 steps a day. The American College of Sports Medicine (ACSM) has three protocols for individuals beginning a walking program based on their fitness level; these are presented in Table 8.4.

Table 8.4 ACSM Walking Program

Daily Walking Times*			
Week	Level 1 (Not Walked Aerobically in Years)	Level 2 (Slightly More Fit Than Level 1)	Level 3 (Have Participated in Some Aerobic Walking)
1	10	20	30
2	12	20	30
3	15	25	35
4	15	25	35
5	20	30	40
6	20	30	40

*Walking sessions should be preceded by two-minute walking in place warm-up, plus basic stretches.

Source: Adapted, with permission, from American College of Sports Medicine, 2003, *ACSM fitness book*, 3rd ed. Champaign, IL: Human Kinetics, 128–133.

Exercise 8.6 Incorporating Physical Activity

Read Officer Bill Case Study and explain how physical activity would benefit Bill. If you were Bill's dietitian, what role would you take in counseling him about physical activity? Describe a specific physical activity goal that would be appropriate for Bill to begin making a change in his lifestyle.

- ❑ **Plan for variety.** A physical activity program should include a variety of activities to maintain motivation and decrease the risk of injury due to overuse of any particular muscle group.
- ❑ **Consider the daily routine.** A plan should have physical activity as part of a daily routine. Clients should be encouraged to use more physical activity when feasible, such as using stairs rather than an elevator or walking to a store rather than driving.
- ❑ **Plan for sustained activity.** To maintain the benefits of exercise from both endurance and resistance training, the activities must be continuous. Health benefits will decrease within two weeks if physical activity is considerably reduced, and if the inactivity is sustained, the gains will entirely disappear within two to eight months.⁵¹

CASE STUDY 8.1 Officer Bill

Bill Melia has been on the Los Angeles police force for 26 years. He has a good family life—married for 30 years with three grown children. He enjoys his job and is happy with his career, although at times the stress can be a challenge. Overall, Bill copes by planning great vacations with his wife, Lola; they often go to Mexico to visit their parents. Bill's recent physical exam revealed metabolic syndrome and pre-diabetes. The physician indicated that this is an early stage and if left untreated would evolve into type 2 diabetes. His doctor warned Bill that he needed to make significant lifestyle changes, including weight loss, to control the situation. An appointment was made with the office dietitian to discuss lifestyle modifications that would be helpful in preventing progression of the disease.

This was Bill's first experience with the possibility of a major health problem, and the news was difficult for him to handle. He started feeling depressed about the possibility of being on a strict diet and taking insulin injections. Bill remembered his grandmother in Mexico taking shots every day, and the thought of this being part of his life greatly worried him.

(continued)

CASE STUDY 8.1 Officer Bill (continued)

As Bill drove to meet the dietitian, he thought of all the changes he would have to make. Working balanced meals into his schedule as a police officer would not be easy. Because he is never quite sure when he will have time to eat, Bill has large meals when the opportunity arises. Any given call over his radio could result in hours without being able to eat, so the larger the meal, the better. However, his interest in returning to working out would be something positive to share with the dietitian. He used to love to lift weights for increased muscle strength, and surely this would be a positive activity toward controlling his diabetes. "Yes, that would do it," he thought.

KEY TERMS

Aerobic Activity: physical activity requiring oxygen; usually sustained longer than three minutes; required to develop cardiorespiratory fitness.

Anaerobic Activity: physical activity not requiring oxygen; utilized during high-intensity activities and at the beginning of sustained aerobic activities.

Cardiorespiratory Fitness: the ability of the circulatory and respiratory systems to supply oxygen during physical activity; usually reported as maximum oxygen uptake ($\text{VO}_2 \text{ max}$).

Ergogenic Aids: substances, including medications and dietary supplements, or techniques and devices, that are intended to improve physical performance.

Flexibility: full range of joint motion without discomfort.

Maximum Heart Rate: roughly 220 beats per minute minus age.

Moderate Physical Activity: use of large muscle groups equivalent to brisk walking. On a scale relative to an individual's personal capacity, moderate physical activity is usually a 5 or 6 on a scale of 0 to 10.

Muscular Endurance: repetitive muscle contractions over a prolonged period.

Muscular Strength: ability to generate appropriate force.

Physical Activity: any movement produced by the contraction of skeletal muscle that increases energy expenditure above a basal level.

Physical Fitness: set of attributes relating to the ability to perform physical activity; often viewed as cardiorespiratory fitness; components include flexibility, suitable body composition, muscular strength, and muscular endurance.

Vigorous Physical Activity: repetitive activities using large muscle groups at 70 percent or more of maximum heart rate. On a scale relative to an individual's personal capacity, vigorous physical activity is usually a 7 or 8 on a scale of 0 to 10.

REVIEW QUESTIONS

1. Describe physical activity and physical fitness.
2. Identify the two most common risks associated with exercise and explain how to best prevent the harmful effects.
3. Explain the major conclusions of the 2018 Physical Activity Guidelines (see Exhibit 8.1).
4. Explain two ways to monitor the level of physical exertion.
5. Explain how to determine maximum heart rate, target heart rate, and target zone.
6. Why do older adults particularly benefit from strength and flexibility training?
7. Explain when a client should obtain a physician's approval before engaging in physical activity counseling.
8. When should physical activity be delayed?
9. Explain the physical activity counseling algorithm.
10. Identify physical activity counseling strategies for each of the four motivational levels discussed in the section on physical activity counseling protocols.

ASSIGNMENT Physical Activity Assessment and Counseling

The objectives of this assignment are to gain experience using the physical activity readiness assessment forms and the physical activity protocols. Pair off with a colleague and take turns counseling each other.

PART I. Use the following interview guide checklist to conduct the counseling session with your colleague. Possible counselor questions, statements, and responses are given in italics. Additional examples can be found in the chapter.

Preparation

- ☐ Review the physical activity counseling algorithm in Figure 8.3 and protocols in this chapter, as

well as goal setting and action plan development (see Chapter 5).

- ❑ You and your partner should each complete copies of the physical activity assessment forms found in Appendix C:
 - Client Assessment Questionnaire, Lifestyle Management Form 5.1.
 - Physical Activity Par-Q Form, Lifestyle Management Form 8.4.
 - Physical Activity Readiness, Assessment and Feedback Form, Lifestyle Management Form 8.6.
- ❑ Exchange completed assessment forms.
- ❑ Bring a blank card and copies of physical activity fact sheets found in Appendix C:
 - Benefits of Regular Moderate Physical Activity, Lifestyle Management Form 8.1.
 - Physical Activity Options, Lifestyle Management Form 8.3.

Interview

Because the focus of this assignment is practicing physical activity counseling skills, not all phases of a counseling session will be addressed. One of you should take on the role of counselor and the other to play the role of client. After completing the counseling experience, reverse the roles.

Feedback After reviewing your colleague's physical activity assessment forms, provide feedback by using the following guidelines:

- ❑ Point-by-point, clear, concise, nonjudgmental.
- ❑ Elicit response.
- ❑ Give summary.
 - Identify problems.
 - Reiterate any self-motivational statements—*I never thought much about weight training.*
 - Ask for additions or corrections.
- ❑ Elicit response—*What do you think about this?*

Evaluate need for physician approval This activity is a simulation. The physical activity counseling practice session should continue. However, if you or your partner requires an evaluation from a physician, it should be understood that any goal setting or action plan discussed would not be implemented until receiving proper medical clearance.

Customize the counseling approach Tailor your counseling approach to the motivational level of your volunteer client. Use the motivational assessment graphic, Lifestyle Management Form 4.1 in Appendix C,

to determine motivational level: Level 1 (not ready) 1–3 on graphic, Level 2 (unsure) 4–6 on graphic, Level 3 (ready) 7–9 on graphic, and Level 4 (active) 10 on graphic.

Not Ready (Level 1)

- ❑ Summarize benefits of physical activity—see Benefits of Regular Moderate Physical Activity fact sheet, Life Management Form 8.1 in Appendix C.
- ❑ Personalize benefits—use the completed Client Assessment Questionnaire, Life Management Form 5.1 in Appendix C, as an aid.
- ❑ Request permission to discuss the possibility of a change.
- ❑ Ask key open-ended questions—reasons to be active, barriers.
- ❑ Summarize.
- ❑ Offer advice, if requested, or request permission to offer advice.
- ❑ Express support.
- ❑ Support self-efficacy.

Unsure (Level 2)

- ❑ Explore ambivalence—ask key open-ended questions.
 - Advantages of not changing.
 - Consequences of not changing.
 - Hoped-for benefits.
- ❑ Look to the past—*Have you ever been physically active?*
- ❑ Look to the future—*What would your life be like?*
- ❑ Summarize ambivalence and reiterate self-motivational statements.
- ❑ Ask about next step.
- ❑ Set a goal and develop an action plan, if appropriate. See Ready action plan checklist in the section that follows.
- ❑ Support self-efficacy.

Ready (Level 3)

- ❑ Praise positive behaviors.
- ❑ Review current activity program, if appropriate.
- ❑ Explore change options to develop a broadly stated goal.
 - Elicit client's thoughts.
 - Look to the past.
 - Go over list of possibilities if requested—see Physical Activity Options fact sheet, Life Management Form 8.3 (Appendix C).

- ❑ Client selects an appropriate activity goal.
- ❑ Develop an action plan.
 - Investigate physical environment—*Do you have everything you need? Do you have walking shoes?*
 - Examine social support—*Is there anyone who could help you achieve your goal?*
 - Review cognitive environment—*What will you be saying to yourself if you miss a day that you planned to walk?*
 - Explain positive coping talk, if necessary.
 - Select tracking technique—chart, journal, and so forth.
 - Ask your client to verbalize a goal.
 - Write down the goal on a card and give it to your client.
 - Support self-efficacy.

Active (Level 4)

- ❑ Praise positive behaviors.
- ❑ Review current activity program; compare to standards.
- ❑ Review sport-specific nutrient needs, if necessary.
- ❑ Prevent relapse.
 - Explain need to discuss relapse.
 - Use Assessment Graphic, Life Management Form 4.1 in Appendix C, to rate confidence to continue.
 - Identify potential barriers.
 - Explore solutions to barriers.
 - Explain that setbacks are common.
 - Identify social supporters.
- ❑ Set goal and develop an action plan, if appropriate. (See previous motivational level.)
- ❑ Support self-efficacy.

PART II. Answer the following questions in a formal typed report or in your journal. For formal reports, number and type each question, and put the answers in complete sentences under the question. For journal entries, number each answer.

1. Write a narration of the experience from when you had the role of counselor. There should be three titled sections in the narration: preparation, feedback, and counseling approach.
2. What counseling strategies had the greatest impact?

3. Explain the impact of the Lifestyle Management Forms and the picture of the assessment graphic, if used.
4. Describe the experience of being counseled as compared to being a counselor.
5. What did you learn from the experience?

ADDITIONAL RESOURCES

Guiding Clients in Designing a Fitness Program

ACSM's Complete Guide to Fitness and Health. 2nd ed. American College of Sports Medicine. Champaign, IL: Human Kinetics, 2017; a basic skills approach providing a fitness test and guidance for developing a personal fitness program.

Selected Internet Resources

American College of Sports Medicine (ACSM), www.acsm.org. Leading organization in sports medicine, exercise science, and physical activity and a resource for referrals of accredited exercise professionals.

Active People, Healthy Nation, www.cdc.gov/physicalactivity/index.html. A national initiative by CDC and its partners to protect health by helping Americans to be physically active.

Exercise is Medicine (EIM)®, www.exerciseismedicine.org. EIM is a global health initiative managed by the American College of Sports Medicine (ACSM) encourages all health care providers to include physical activity in their treatment plans. A toolkit developed for dietitians can be found at www.exerciseismedicine.org/assets/page_documents/WM%20EIM%20Toolkit%202013%20FINAL.pdf.

Clifford, D., Curtis, L. *Motivational Interviewing in Nutrition and Fitness*. New York: The Guilford Press; 2016.

Supplement Resources

<http://www.naturaldatabase.com>: Provides descriptions of commercially available products, uses, safety, with hyperlinks to journal abstracts and full text articles.

Office of Dietary Supplements, <https://ods.od.nih.gov/>. Provides fact sheets for health professionals and consumers.

Consumer Labs, www.consumerlabs.com. Provides descriptions of products, uses, and tests products for quality and safety.

REFERENCES

- ¹U.S. Department of Health and Human Services. *Physical Activity Guidelines for Americans*, 2nd edition. Washington, DC: U.S. Department of Health and Human Services, 2018.
- ²2017 Sedentary Behavior Research Network. 10 years of measuring sedentary behaviour and physical activity in Canada. Available at: www.sedentarybehaviour.org. Accessed June 19, 2019.
- ³R. E. Sallis, J. M. Matuszak, A. L. Bagish, et al., Call to action on making physical activity assessment and prescription a medical standard of care. *Curr Sports Med Rep*. 2016; 15:207–214.
- ⁴National Center for Health Statistics: 2018 National Health Interview Survey. Available at: <https://www.cdc.gov/nchs/nhis/releases/released201905.htm#7A>. Accessed June 16, 2019.
- ⁵National Physical Activity Plan Alliance. *The 2018 United States Report Card on Physical Activity for Children and Youth*. Washington, DC: National Physical Activity Plan Alliance, 2018.
- ⁶National Physical Activity Plan Alliance. *U.S. National Physical Activity Plan*. Columbia, SC, 2016.
- ⁷Office of Disease Prevention and Health Promotion. *Move Your Way*. Available at: <https://health.gov/PAGuidelines/MoveYourWay/>. Accessed June 27, 2019.
- ⁸Presidential Youth Fitness Program. Available at: pyfp.org. Accessed June 16, 2019.
- ⁹United States Department of Veteran Affairs, *MOVE!* Available at: www.move.va.gov/. Accessed June 16, 2019.
- ¹⁰U.S. Department of Health and Human Services (USDHHS). *Healthy People 2020*. Available at: healthypeople.gov/. Accessed June 16, 2019.
- ¹¹National Association for Health and Fitness. Available at: physicalfitness.org/. Accessed June 16, 2019.
- ¹²U.S. Department of Agriculture. *Why is physical activity important?* Available at: www.choosemyplate.gov/physical-activity/why.html. Accessed June 17, 2019.
- ¹³H. M. Seagle, G. W. Strain, A. Makris, et al., Position of the American Dietetic Association: weight management. *J Am Diet Assoc* 2009; 109:330–46.
- ¹⁴American College of Sports Medicine. Exercise is Medicine. Health Care Providers' Action Guide, 2019 Available at: https://www.exerciseismedicine.org/support_page.php/health-care-providers/. Accessed June 25, 2019.
- ¹⁵V. Marin, A. Rosen, M. Fineberg, et al., Factors Influencing the Promotion of Physical Activity by Registered Dietitians. 2013; 113;S9.
- ¹⁶A Physical Activity Toolkit for Registered Dietitians: Utilizing Resources of Exercise is Medicine®. Available at: www.exerciseismedicine.org/assets/page_documents/WM%20EIM%20Toolkit%202013%20FINAL.pdf. Accessed June 19, 2019.
- ¹⁷B. Bushman, *American College of Sports Medicine Complete Guide to Fitness and Health*, 2nd ed. Champaign, IL: Human Kinetics, 2017.
- ¹⁸G. Danaei, E. L. Ding, D. Mozaffarian, et al., The preventable causes of death in the United States: Comparative risk assessment of dietary, lifestyle, and metabolic risk factors. *PLOS Medicine* 2009; 6:4.
- ¹⁹P. T. Katzmarzyk, K. E. Powell, J. M. Jakicic, et al., Sedentary Behavior and Health Update from the 2018 Physical Activity Guidelines Advisory Committee. *Med Sci Sports Exerc*. 2019; 51:1227–1241.
- ²⁰A. A. Hakim, H. Petrovitch, C. M. Burchfiel, et al., Effects of walking on mortality among non-smoking retired men. *N Engl J Med*. 1998; 338:94–99.
- ²¹S. Pal, S. Radavelli-Bagatini, and S. Ho, Potential benefits of exercise on blood pressure and vascular function. *J Am Soc Hypertens*. 2013; 7:494–506.
- ²²L. B. Goldstein, Physical activity and the risk of stroke. *Expert Rev Neurother*. 2010; 10:1263–1265.
- ²³K. Waller, J. Kaprio, M. Lehtovirta, et al., Leisure-time physical activity and type 2 diabetes during a 28-year follow-up in twins. *Diabetologia*. 2010; 53:2531–2537.
- ²⁴J. M. Jakicic, K. E. Powell, W. W. Campbell, et al., Physical activity and the prevention of weight gain in adults: A systematic review. *Med Sci Sports Exerc*. 2019; 51:1262–1269.
- ²⁵B. E. Saelens, H. M. Grow, L. J. Stark, et al., Efficacy of increasing physical activity to reduce children's visceral fat: A pilot randomized controlled trial. *Int J Pediatr Obes*. 2011; 6:102–112.
- ²⁶A. Mctiernan, C. M. Friedenreich, P. T. Katzmarzyk, et al., Physical activity in cancer prevention and survival: A systematic review. *Med Sci Sports Exerc*. 2019; 51:1252–1261.
- ²⁷P. Cormie, E. M. Zopf, X. Zhang, et al. The impact of exercise on cancer mortality, recurrence, and treatment-related adverse effects. *Epidemiol Rev*. 2017; 39:71–92.
- ²⁸American College of Sports Medicine. *ACSM's Guidelines for Exercise Testing and Prescription*. 10th ed. Baltimore, MD: Williams & Wilkins, 2017.
- ²⁹M. K. Karlsson, A. Nordqvist, and C. Karlsson, Physical activity, muscle function, falls and fractures. *Food Nutr Res*. 2008;52. Available at:<https://foodandnutritionresearch.net/index.php/fnr/article/view/1141>. Accessed July 7, 2019.
- ³⁰L. Dipietro, W. W. Campbell, D. M. Buchner, et al., Physical activity, injurious falls, and physical function in aging: An umbrella review. *Med Sci Sports Exerc*. 2019; 51:1303–1313.
- ³¹K. I. Erickson, C. Hillman, C. M. Stillman, et al., Physical activity, cognition, and brain outcomes: A review of the 2018 Physical Activity Guidelines. *Med Sci Sports Exerc*. 2019; 51:1242–1251.
- ³²E. Poirel, Psychological benefits of physical activity for optimal mental health. *Sante Ment Que*. 2017; 42:147–164.
- ³³W. E. Kraus, K. E. Powell, W. L. Haskell, et al., Physical activity, all-cause and cardiovascular mortality, and cardiovascular disease. *Med Sci Sports Exerc*. 2019; 51:1270–1281.
- ³⁴M. A. Fiatarone, E. F. O'Neill, N. D. Ryan, et al. Exercise training and nutritional supplementation for physical frailty in very elderly people. *N Engl J Med*. 1994; 330:1769–1775.
- ³⁵J. M. Jakicic, W. E. Kraus, K. E. Powell, et al., Association between bout duration of physical activity and health: Systematic review. *Med Sci Sports Exerc*. 2019; 51:1213–1219.
- ³⁶American Heart Association. *Know Your Target Heart Rates for Exercise, Losing Weight and Health*. Available at: www.heart.org/en/healthy-living/fitness. Accessed June 19, 2019.
- ³⁷American Dietetic Association. *Project Lean Resource Kit*. Chicago: American Dietetic Association, 1995.
- ³⁸R. K. Dishman, Increasing and maintaining exercise and physical activity. *Behav Ther*. 1991; 22:345–378.

³⁹U.S. Department of Health and Human Services (USDHHS). *Promoting Physical Activity: A Guide for Community*. Human Kinetics, Champaign, IL, 1999.

⁴⁰B. Long, W. Woolen, K. Patrick, et al., *Project PACE Physician Manual*. Atlanta: Centers for Disease Control, 1992.

⁴¹Sports, Cardiovascular, and Wellness Nutrition Practice Group of the Academy of Nutrition and Dietetics. *A Physical Activity Toolkit for Registered Dietitians: Utilizing Resources of Exercise is Medicine®* 2013 Available at: www.exerciseismedicine.org/assets/page_documents/WM%20EIM%20Toolkit%202013%20FINAL.pdf. Accessed June 25, 2019.

⁴²D. Clifford and L. Curtis, *Motivational Interviewing in Nutrition and Fitness*. New York: The Guilford Press, 2016.

⁴³D. B. Rosengren, *Building Motivational Interviewing Skills – a practitioner workbook*. 2nd ed. New York: The Guilford Press, 2018.

⁴⁴American College of Sports Medicine. *Guidelines for Exercise Testing and Prescription*, 10th ed. Philadelphia, PA: Wolters Kluwer, 2018.

⁴⁵W. R. Miller and S. Rollnick, *Motivational Interviewing Preparing People to Change Addictive Behavior*. New York: Guilford, 1991.

⁴⁶N. L. King, *Counseling for Health and Fitness*. Eureka, CA: Nutrition Dimension, 1999.

⁴⁷S. M. Berg-Smith, V. J. Stevens, K. M. Brown, et al., A brief motivational intervention to improve dietary adherence in adolescents. *Health Education Research*. 1999; 14:399–410.

⁴⁸U.S. Department of Health and Human Services (USDHHS). *Healthy People 2010*. Atlanta, GA: Department of Health and Human Services, Office of Disease Prevention and Promotion, 2000.

⁴⁹D. M. Bravata, C. Smith-Spangler, and Sundaram Vetal, Using pedometers to increase physical activity and improve health: A systematic review. *JAMA*. 2007; 298:2296–304.

⁵⁰American College of Sports Medicine. *ACSM Fitness Book*, 3rd ed. Champaign, IL: Human Kinetics, 2003.

⁵¹U.S. Department of Health and Human Services (USDHHS). *Physical Activity and Health: A Report of the Surgeon General*. Atlanta: Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion; 1996. Available at: www.cdc.gov/nccdphp/sgr/sgr.htm. Accessed July 7, 2019.

9

Communication with Diverse Population Groups



Monkey Business Images/Shutterstock.com

Learning Objectives

- 9.1** Define cultural competence.
- 9.2** Describe the importance of cultural competence for health providers.
- 9.3** Describe demographic trends in North America.
- 9.4** Explain two cultural competence models.
- 9.5** Review two guidelines for engaging in cross-cultural interviews and interventions.
- 9.6** Explain the advantages of using trained medical interpreters.
- 9.7** Identify useful nutrition intervention strategies for various stages of the life cycle.
- 9.8** Explain the need for culturally sensitive health care for the LGBTQ population.
- 9.9** Identify and describe three main types of eating disorders.
- 9.10** Describe weight bias issues.
- 9.11** Identify communication essentials for people with disabilities.

Father, Mother, and Me
Sister and Auntie say
All the people like us are We,
And every one else is They
And They live over the sea,
While We live over the way,
But – would you believe it?
They look upon We
As only a sort of They!

We eat pork and beef
With cow-horn-handled knives
They who gobble Their rice off a leaf,
Are horrified out of Their lives;
While They who live up a tree,
And feast on grubs and clay,
(Isn't it scandalous?) look upon We
As a simply disgusting They!
—RUDYARD KIPLING, WE AND THEY

This chapter is devoted to working on gaining **cultural competence** and reviewing communication essentials for working with selected population groups. Gaining cultural competence in health care means developing attitudes, skills, and levels of awareness that enable the development of culturally appropriate, respectful, and relevant interventions. Good communication skills are necessary tools for nutrition counselors and educators to provide effective interventions for all groups and individuals. They are the heart of developing relationships with clients and guiding behavior change. Chapter 1 included a review of the impact of **culture** on how we perceive the world, and a culturally sensitive approach to nutrition counseling was presented in Chapter 4. In this chapter, we will first review some of the reasons for focusing on cultural competence and then examine two cultural competence models with emphasis on methodology for increasing cultural sensitivity. Also, we will explore two guidelines for engaging in cross-cultural interviews and interventions. In addition, we will examine special counseling, education, and communication issues related to selected population groups, including individuals among various minority groups, persons in various stages of the lifespan, and people with **disabilities**.

9.1 Need for Cultural Competence

There is a compelling need for health professionals to communicate with clients, families, communities, and fellow professionals in a culturally competent manner. Some reasons include demographic diversity and projected population shifts, increased utilization of traditional therapies, disparities in health status, underrepresentation of culturally and linguistically diverse health care providers, and legislative, regulatory, and accreditation mandates.

9.2 Demographics—Population Trends

The United States has always had a rich mix of ethnic, racial, and societal groups, but the challenge of meeting the needs of a **multicultural** and dynamic population seems greater than ever. Population changes in North America require that health care professionals acquire skills in communicating across cultures. See Figure 9.1 for a depiction of the 2018 U.S. Census Bureau report of population distribution by **race** and Hispanic origin. Since the 1970s, the United States has been moving toward a cultural plurality, where no single racial or ethnic group is a majority. Those reporting belonging to two or more racial groups is the fastest-growing segment of

the population. By 2045, non-Hispanic whites will become less than 50 percent of the total population of the United States.¹ At that time, whites will comprise 49.7 percent of the population in contrast to 24.6 percent for Hispanics, 13.1 percent for blacks, 7.9 percent for Asians, and 3.8 percent for multiracial populations. See Figure 9.2. In 2060, whites will comprise only 36 percent of the under age eighteen population, with Hispanics accounting for 32 percent.

Linguistic diversity accompanies population shifts. More than 350 languages are spoken in the United States. As of 2015, approximately 20 percent of the U.S. population spoke a language other than English at home. In some states the percentages were substantially higher than the national average, such as California (43 percent), New Mexico (36 percent), Texas (35 percent), and New Jersey (30 percent). Approximately 9 percent of the overall U.S. population ages five and older have limited English proficiency.^{2,3}

Along with changes in ethnic and racial diversity, there are also dramatic changes in the number of people who make up the older segment of the American population. For example, the percentage of people sixty-five years of age and older was 16 percent in 2018, but is expected to increase to 24 percent by 2060.⁴ An older population increases the need for health professionals to have expertise in dealing with chronic diseases and the ability to communicate with those who have disabilities, such as limitations in sight and hearing.

The demographic changes have been brought about by alterations in immigration laws (the foreign-born population has more than doubled in the past twenty years), by corporate expansions into the global market, and by the tendency for minorities and **immigrants** to have higher birth rates. In addition, the population mosaic is shifting in response to internal migration and the greater percentage of senior citizens.

9.3 Increased Use of Traditional Therapies

Understanding the components and importance of culture provides a foundation for good health care practices. We cannot ignore the substantial increase in the use of complementary interventions and traditional therapies such as meditation, acupuncture, and herbal medicine, which are often culture based. The Centers for Disease Control and Prevention reported in 2007 that almost 4 out of 10 adults (38.3 percent) had used some type of complementary and **alternative medicine**, including diet-based therapies, in the past twelve months.⁵ The Academy of Nutrition and Dietetics has set standards of

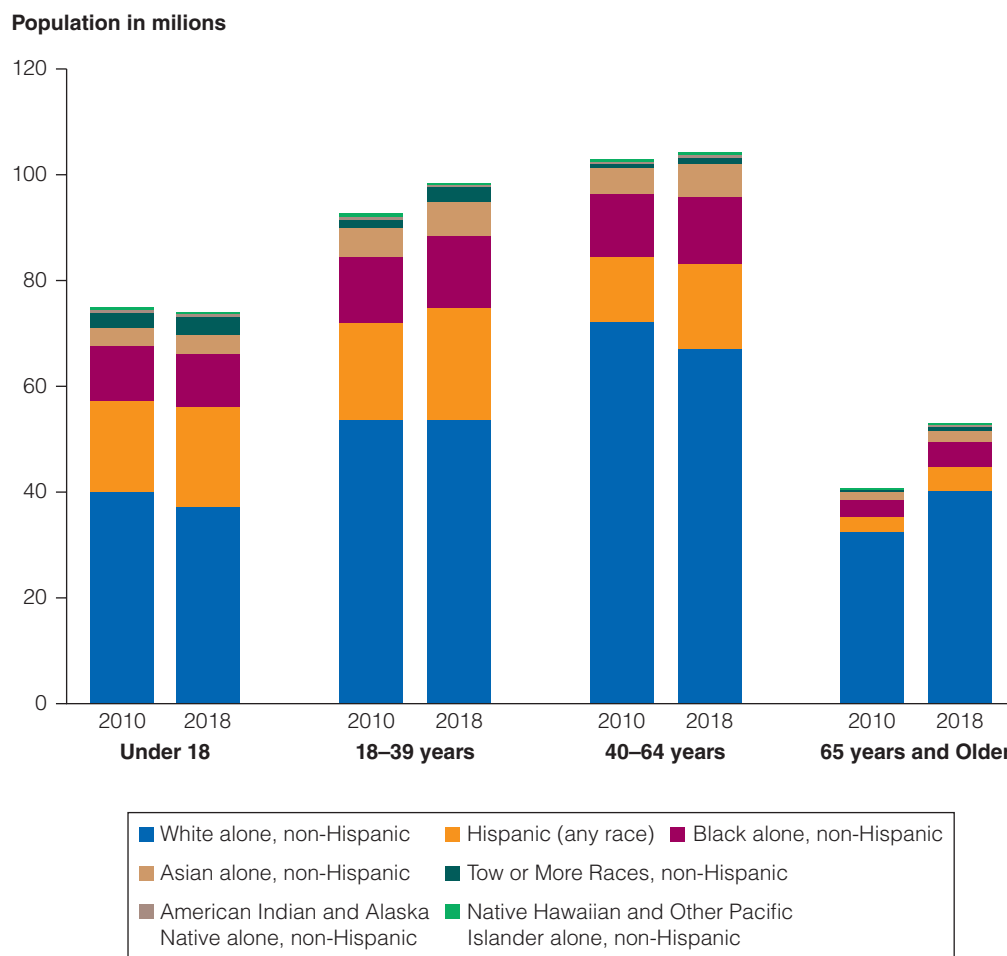


Figure 9.1 A More Diverse Nation: Distribution of Race and Hispanic Origin by Age Groups

Source: Vintage 2018 Population Estimates, www.census.gov/programs-surveys/popest.html

Racial profile of U.S. population, 2045

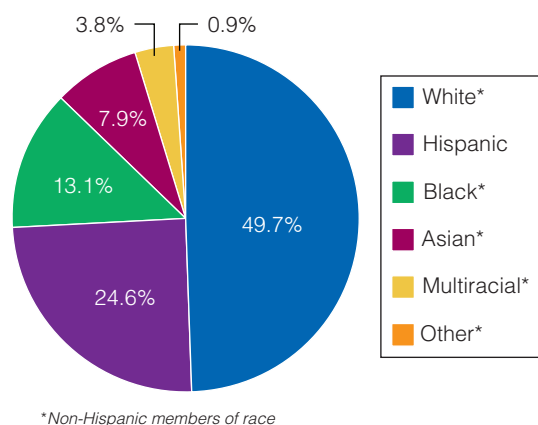


Figure 9.2 2014 Projected Racial Profile of U.S. Population

Available at: <https://www.brookings.edu/blog/the-avenue/2018/03/14/the-us-will-become-minority-white-in-2045-census-projects/>

practice and standards of professional performance for registered dietitians in integrative and functional medical nutrition therapy (IFMNT).⁶ Diana Dyer, popular lecturer and author of *A Dietitian's Cancer Story: Information and Inspiration for Recovery and Healing From a Three-Time Cancer Survivor*, has been an advocate of learning about and combining conventional and complementary approaches to healing. She made many changes in her lifestyle to enhance healing but states in her book that “although I am a nutritionist to the core, learning to meditate, and doing it faithfully, has been the most important change I have made.”⁷ Developing an understanding and an appreciation of **functional medicine** and traditional health practices of various cultures can help health practitioners plan and implement meaningful interventions.

Health Disparities

Not all **cultural groups** have the same health status. Inequalities can exist in regard to health outcomes, access

to competent health care, and delivery of quality health care. Substantial health inequalities exist based on age, gender, race, **ethnicity**, education, income, disability, geographic location, sexual orientation, or other characteristics historically linked to **discrimination** or exclusion. For the most part, incidence of chronic disease and disability is higher and life expectancy is lower among American Indian or Alaska Native, Asian American, black or African American, Hispanic or Latino, and Native Hawaiian or Other Pacific Islanders as compared to non-Hispanic whites.⁸ See Table 9.1 for specific examples of **health disparities** among cultural groups.

Besides ethical, physical, and emotional turmoil for individuals who are the recipients of inadequate health care, there is a national cost to the health care system.

Anecdote

A classmate in my nutrition class was pregnant and an immigrant from Africa. One day she brought in clay pellets that had been sent to her from home. She said they tasted good and that all women in her country eat them when they are pregnant to be sure their children are born healthy. This surprised me. I had read about the practice, but I didn't think that an educated woman who was majoring in nutrition would eat clay. I guess I was being ethnocentric.

Between 2003 and 2006, the combined costs of health inequalities and premature death in the United States were \$1.24 trillion.⁹ In 2009, the Urban Institute projected that from 2009 to 2018, racial disparities in health will cost approximately \$337 billion.¹⁰

Causes of Health Disparities A number of interrelated elements are barriers to good health. These elements affect

individuals throughout their lifespan and include social determinants, behavioral determinants, environmental determinants, and biological and genetic determinants.⁸

Social determinants of health. In a 2017 study, 38.2 percent of the poorest third report being in “fair or poor” health, compared with the richest 12.3 percent.¹¹ Minorities often

Table 9.1 Examples of Health Disparities Among Cultural Groups

Category	Centers for Disease Control Data
Ethnic/Racial Groups	
American Indian/ Alaska Native	As compared to non-Hispanic whites, American Indians/Alaska Natives are 2.5 times as likely to have chronic liver disease, 2.4 times as likely to have diabetes, 50 percent more likely to be obese, 30 percent more likely to have high blood pressure, and twice as likely to have a stroke as non-Hispanic white populations. Pima American Indians have the highest incidence of diabetes in the world.
Asian Americans	Asian American women have the highest life expectancy (85.8 years) of any other ethnic group in the United States. As compared to non-Hispanic whites, tuberculosis is 30 times more common. Asian Americans are 10 percent more likely to have diabetes, 1.7 times more likely to contract hepatitis A, and twice as more likely to develop chronic hepatitis B. Filipino adults are 70 percent more likely to be obese than other Asian Americans.
Black/African American	In 2010, the life expectancy at birth of non-Hispanic whites was 79 years but only 75 for blacks. As compared to non-Hispanic whites, blacks are 40 percent more likely to die from breast cancer, 30 percent more likely to die from heart disease, and 80 percent more likely to have diabetes. African American women have the highest rates of overweight and obesity compared to other groups. In 2016, African Americans had 2.2 times the infant mortality rate as non-Hispanic whites.
Hispanic Americans	As compared to non-Hispanic whites, Hispanics are 60 percent more likely to die from viral hepatitis and 1.7 times more likely to have diabetes. Hispanic Americans accounted for almost 25 percent of all HIV infection cases in 2016. Among Mexican American women, 77 percent are overweight or obese, as compared to only 64 percent of the non-Hispanic white women.
Native Hawaiians/ Pacific Islanders	As compared to other ethnic groups, Native Hawaiians/Pacific Islanders have higher rates of smoking, alcohol consumption, and obesity. In 2014, Samoans were 5.6 times more likely to be obese as compared to the overall Asian American population. Native Hawaiian women have the highest incidence rate for all types of cancer, as compared to other ethnic groups in the state. In most of the U.S. Pacific Territories, the cumulative HIV infection rate is higher than the national rate for whites.

(continued)

Table 9.1 Examples of Health Disparities Among Cultural Groups (*continued*)

Category	Centers for Disease Control Data
Selected Cultural Groups	
Disability	Adults with disabilities are four times as likely as adults with no disabilities to report having fair or poor health (40.3 percent versus 9.9 percent). ¹⁷
Gender	Life expectancy declined for non-Hispanic white women between 2013 and 2014 from 81.2 to 81.1 years probably due to accidental opioid poisoning, suicide, obesity, and smoking-related diseases. No decline was seen for non-Hispanic white men. ¹² Women and minorities were often excluded from research until a federal mandate in 1993 required inclusion.
Race/Ethnicity	The 2010 Affordable Health Care Act expanded health insurance to 20 million people. However, inequities still exist. In 2017, non-Hispanic whites had the lowest uninsured rate (6.3 percent). Rates for blacks and Asians were 10.6 percent and 7.3 percent, respectively. Hispanics had the highest uninsured rate (16.1 percent). ¹⁸
Geographic Location	One in five Americans live in areas with primary care shortages. Compared to their urban counterparts, rural residents are more likely to report poor-to-fair health; live with a chronic disease such as diabetes; die from heart disease; be admitted to a hospital for uncontrolled diabetes; and they are less likely to have a dental visit within the past year. ^{19,20}
Sexual Orientation	Obesity rates are higher among lesbian and bisexual women compared to heterosexual women. LGBT individuals are more likely than heterosexuals to rate their health as poor, have more chronic conditions, and have higher prevalence and earlier onset of disabilities than non LGBT individuals. ²¹

Office of Minority Health, *Minority Population Profiles*. Available at: <https://minorityhealth.hhs.gov/omh/browse.aspx?lvl=2&lvlID=26>. Accessed July 21, 2019.

have lower levels of income, employment, and education; reduced access to transportation and quality health care; reside in poorer housing; live in unsafe neighborhoods; and have fewer opportunities to engage in health-promoting behaviors.¹²

Factors found to limit utilization of available services include inconvenient location, unawareness of services, feelings of discomfort with providers, health provider attitudes, lack of translators, and long waiting lines.¹³ Minorities are more likely to live in food deserts, where nutritious food can be expensive or unavailable.

Discrimination, racism, and stereotyping are also social determinants of health disparities. Individuals who perceive that they have been treated in a racist manner are more likely to exhibit psychological distress, depressive symptoms, substance abuse, and physical health problems.¹⁴ The majority of health care professionals find **prejudice** morally repugnant, but several studies indicate that even well-meaning health care professionals often demonstrate unconscious negative racial attitudes and make decisions based on bias, prejudice, and **stereotypes**, contributing to disparities in health care outcomes.¹⁵

Behavioral determinants of health. For the most part these include factors over which individuals have control, such as overweight and obesity; exercise choices; and use of illicit drugs, tobacco, or alcohol. Children exposed to secondhand tobacco smoke exposure are at increased risk for acute lower respiratory tract infections, such as bronchitis. Children living below or near the poverty level are more likely to have high levels of blood cotinine, a breakdown product of nicotine, than children living in higher income families.¹⁶

Environmental determinants of health. This category includes lead exposure, asthma triggers, workplace safety factors, and unsafe or polluted living conditions.

Biological and genetic determinants of health. This category includes family history of diabetes as well as inherited conditions such as hemophilia, cystic fibrosis, and sickle cell anemia.

The National Partnership for Action to End Health Disparities for the elimination of health disparities identified five priorities to address these determinants. One of the priorities is to improve cultural and linguistic competency and the diversity of the health care workforce.⁸

Underrepresentation of Culturally and Linguistically Diverse Health Care Providers

Because of our mobile and diverse society, health practitioners are frequently challenged to provide services for cultural groups they have never encountered. At the present time, health professionals represent limited ethnic and linguistic diversity. For example, the majority of registered dietitians (77.8 percent) are non-Hispanic whites.²² Whites make up the majority of the U.S. health workforce (75.2 percent) compared with blacks or African Americans (12.6 percent), Asians (9.9 percent), and Hispanics (8.5 percent).²³ Diversity in the composition of the health care workforce is important because it affects outcomes, quality, safety, and satisfaction. According to the 2014 National Healthcare Disparities Report, “A more diverse health care workforce has been shown to help improve access to health and health care for communities of color.”²⁴ In addition, minority health care professionals are more likely to work in medically underserved communities. However, the health care workforce is expected to diversify in the future along with the rest of the country due to increasing opportunities and the efforts of government and health professional organizations, including the Academy of Nutrition and Dietetics, to encourage minorities to train for health professional careers. Census Bureau predictions for the 2005–2050 time period indicate that in general, a more diverse population will become available to fill openings in the health care field. Baby boomers (Americans born between 1946 and 1964) will steadily exit the labor force, and the numbers of minorities will considerably increase.²⁵ The challenge of serving a diverse and rapidly changing public underscores the need for diversity in the health professions and also highlights the importance of universal cultural competence skills, because the mix of professionals will never be identical to the population it serves.

Legislative, Regulatory, and Accreditation Requirements

Government and professional organizations mandate culturally appropriate services.²⁶ To provide guidance to health care providers, the U.S. Department of Health and Human Services (DHHS) created national standards for culturally and linguistically appropriate services in health care.²⁷ Also, Title VI of the Civil Rights Act of 1964 reads, in part, “No person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or be subjected to **discrimination** under any program or activity receiving federal financial assistance.” In addition,

suppliers of health care need to “[o]ffer language assistance to individuals who have limited English proficiency and/or other communication needs, at no cost to them, to facilitate timely access to all health care and services.”²⁸ A government initiative to address health care disparities is the Patient Protection and Affordable Care Act of 2010. This act has a number of provisions to improve the health of underserved populations including insurance reform, improved access to health care, quality improvement, cost containment, and public health initiatives.²⁹

An overarching objective of Healthy People 2020 is to improve the linguistic and cultural competency of public health professionals.³⁰ The Academy of Nutrition and Dietetics and the Accreditation Council for Education in Nutrition and Dietetics (ACEND) has integrated diversity requirements into numerous components of the organization, including curriculum requirements, diversity philosophy statement, code of ethics, strategic planning, and member resources.³¹

9.4 Cultural Competence Models

Learning to communicate across cultures is an evolutionary process and requires practice, time, effort, and introspection. To work effectively, food and nutrition practitioners need to continually assess their own cultural competence as well as the organization/system in which they work and the environment as a whole. The National Center for Cultural Competence website and the Health Resources and Services Administration have a number of tools and processes to conduct self and organization assessments.^{32,33} Cultural competence models provide a framework for program and curriculum development as well as assessment.³⁴ To provide a structure for gaining cultural competence, we will explore two models, Cultural Competence Continuum and the Campinha-Bacote Model of Cultural Competence in the Delivery of Health Care Services. As you continue in your development of cultural competency skills, you may find components of certain models more useful for visualizing the progress of an intervention and certain models may have more relevance for your client or target audience.

Exercise 9.1 Exploring Health Disparities in Your State

Go to your state government website and do a search for **health disparities**. Record three findings in your journal.

Cultural Competence Continuum

In this model, the process of gaining cultural competence is envisioned as a succession of stages (see Table 9.2). The continuum provides a visual guide for assessing individual or agency progress. However, uniform movement through the stages cannot be expected to occur for all cultural groups. For example, a person can be at a high level of proficiency when working with obese individuals but at a lower stage when working with people who are deaf.

Campinha-Bacote Model of Cultural Competence in the Delivery of Health Care Services

The Campinha-Bacote Model of Cultural Competence in the Delivery of Health Care Services³⁵ looks at cultural competence as a process in which health care professionals continually strive to work effectively within the cultural context of a client (family, individual, or community). According to the model, cultural competence is “a process of becoming culturally competent, not being culturally competent.” Five interdependent constructs of this model are cultural awareness, cultural knowledge, cultural skill, cultural

Anecdote

One of my clients was a forty-two-year-old overweight woman who lived in a group home. She had a lovely personality. Unable to speak, she communicated by facial expressions and body language. This client's diet instructions were hand-drawn pictures on a page kept on the refrigerator. As she consumed appropriate foods, she would put an “X” through the picture. A new diet page was posted every day. This client did beautifully with the program, but her overweight sister was not happy that her sister was losing weight. The sister took my client home on weekends and encouraged her to overeat. It wasn't until I included her sister in our counseling sessions that my client was truly successful.

encounter, and cultural desire. Cultural competence is influenced by working on any of these areas and strengthens the impact of the others on the journey toward cultural competence. Research of this model indicates that cultural encounters play a pivotal role in the process by having the greatest influence on the other four constructs. See Table 9.3 and Figure 9.3.

Development of Cultural Self-Awareness

The foundation of cultural competence is an awareness of your own beliefs, values, and attitudes and an understanding that these attributes reflect your own biases and are just one point of view among many. Without cultural self-awareness, there is a tendency to be **ethnocentric**, devalue alternative cultural practices, blindly impose your own cultural procedures, and miss seeing opportunities for successful interventions.

Developing cultural self-awareness takes a concerted effort because our views are part of our essence and feel so natural. They are the basic components of how we believe the world should function. Because most of our life experiences occur within the same cultural context, our worldviews are repeatedly reinforced. We experience culture shock when we realize that our view of the world is not universally accepted. For example, nutritionists and

Table 9.2 Cultural Competence Continuum

Stage	Description
Cultural Destructiveness	Attitudes, practices, and policies are destructive to other cultures.
Cultural Incapacity	Paternalistic attitude toward the “unfortunates.” No capacity to help.
Cultural Blindness	Belief that culture makes no difference. Treat everyone the same. Approaches of the dominant culture are applicable for everyone.
Cultural Pre-competence	Weaknesses in serving culturally diverse populations are realized, and there are some attempts to make accommodations.
Cultural Competence	Differences are accepted and respected, self-evaluations are continuous, cultural skills are acquired, and a variety of adaptations are made to better serve culturally diverse populations.
Cultural Proficiency	Engages in activities that add to the knowledge base, conducts research, develops new approaches, publishes, encourages organizational cultural competence, and works in society to improve cultural relations.

Source: Cross, T., Bazron, B., Dennis, K., & Isaac, M. (1989). *Towards a Culturally Competent System of Care*. Volume I. Washington, DC: Georgetown University Center for Child and Human Development.

Table 9.3 Constructs of the Campinha-Bacote Model of Cultural Competence

Cultural Construct*	Description
Awareness	Cultural awareness is defined as “the deliberate self-examination and in-depth exploration of our personal biases, stereotypes, prejudices and assumptions that we hold about individuals who are different from us.” ³⁵
Skill	Skill refers to the ability to perform culturally sensitive assessments and to provide appropriate client-centered health interventions.
Knowledge	Cultural knowledge involves seeking and obtaining a sound educational foundation of diverse cultural groups regarding cultural values, health-related beliefs and practices, disease incidence and prevalence, and attitudes toward seeking help from health care providers.
Encounters	Encounters with individuals from diverse cultural backgrounds encourage practitioners to appreciate alternative interpretations of reality and possibly question preexisting beliefs about a specific cultural group. Encounters create opportunities to develop attitudes congruent with cultural competence, such as appreciation, curiosity, and respect.
Desire	Cultural desire is the motivation of health care professionals to engage in the process of becoming culturally competent. By valuing diversity, practitioners are more likely to appear genuine, to provide appropriate and compassionate service, and to meet the needs of their clients.

*The mnemonic ASKED can assist nutrition professionals in assessing their level of cultural competence.

Source: Campinha-Bacote, J. *The Process of Cultural Competence in the Delivery of Healthcare Services*. 5th ed. Cincinnati, OH: Transcultural C.A.R.E. Associates, 2007.

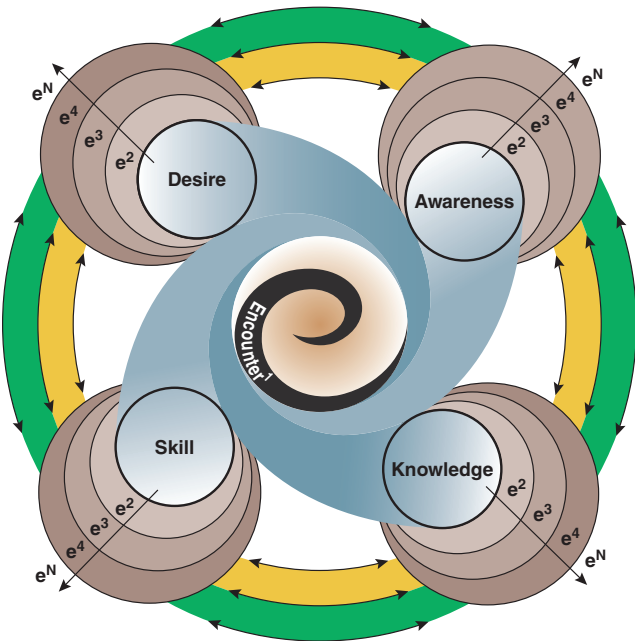


Figure 9.3 The Process of Cultural Competence in the Delivery of Health Care Services

Source: Campinha-Bacote, J. *The Process of Cultural Competence in the Delivery of Healthcare Services*. <http://www.transculturalcare.net>, 2010. Reprinted with permission from Transcultural C.A.R.E. Associates.

other health care providers belong to the culture of biomedicine, health care based on the principles of natural sciences, and may be surprised to find that a client believes that illness is a spiritual matter and in fact may be due to a transgression of an ancestor.

An awareness of the high degree of importance you place on your own particular beliefs, values, and cultural practices can help you appreciate how individuals from a culture different from yours are likely to hold dear certain beliefs, values, and cultural practices. You can then empathize with individuals from non-Western cultures who are experiencing confusion and problems as they try to participate in the North American health care system.

A nutrition professional needs to approach cross-cultural interactions with a nonjudgmental attitude and a willingness to explore and understand different values, beliefs, and behaviors. One of the best ways to become aware of differences is to immerse yourself in the perceptual world or culture of others, as can be done by traveling or working in other countries.

Development of Cultural Knowledge

When possible, nutrition practitioners should invest time in learning about unfamiliar cultures that they are likely to encounter. There are a variety of strategies that health care professionals can employ to learn about other cultures. Eat at ethnic restaurants, explore stories about other cultures in the media, establish focus groups

Table 9.4 Conflicting Values in Health Program Interventions

- Messages that emphasize eating certain foods to prevent specific diseases may not have much of an effect if ill health is viewed as “God’s will.”
- Prevention may be viewed as a useless attempt to control fate. Doing good deeds and requesting forgiveness from a spiritual leader may appear to be the best courses of action for those who believe that illness is a curse for sins.
- Food programs that require that only particular family members eat donated foods may not be well received in cultures where the welfare of the group is placed before the individual.

Source: Schilling, B., & Brannon, E. (1990). *Cross-Cultural Counseling: A Guide for Nutrition and Health Counselors*. Washington, D.C.: U.S. Government Printing Office.

to gain insight into a target population’s culture, read about cultural customs and etiquette, read local newspapers, travel, take language lessons, familiarize yourself with diverse neighborhoods, and attend professional development and training classes.

As we grow to understand more about the cultural group of interest, there is a greater likelihood that we will develop culturally effective and relevant programs. Without cultural understanding, there is a risk that the program you develop could conflict with common beliefs, values, and customs of the group. See Table 9.4 for specific examples.

Learning useful generalizations about a cultural group is only the starting point for developing relevant interventions. As you assess a particular person or group, you must keep general characteristics in mind but make no assumptions. For example, even though you know that many Hindus are vegetarians, you would want to explore that behavior with the individuals involved, rather than just assuming that any particular Hindu is following a vegetarian diet.

Development of Cultural Skills

Working on developing cultural skills takes time and requires technique and flexibility. See Table 9.5 for some practical considerations for cross-cultural communication. Skills include ability to use **respondent-driven interview questions** to effectively conduct a culturally sensitive assessment.

Anecdote

I once counseled a Hindu couple; the wife was about three months’ pregnant and was fluent in English. Throughout the interview, the husband responded to every question I asked—no matter how detailed. The wife remained quiet during the whole session. At first I found myself getting angry; however, the wife did not seem to be bothered by this arrangement. After I realized there were obvious cultural behavior patterns that I should respect, the interview went more smoothly for me.

The counselor asks simple, open-ended questions to initiate conversation, prompts clients for a better understanding when necessary, but for the most part, listens attentively. By showing an unbiased and sincere desire to understand and accept traditional views and practices, it is hoped that clients will not fear criticism or ridicule. Table 9.6 contains examples of open-ended questions to acquire information to direct the flow of conversation for cross-cultural counseling. These questions aid in understanding an illness from a client’s perspective. However, each question is not appropriate for every cross-cultural encounter, so counselors must use their judgment to select suitable ones.

You should also be able to work collaboratively with clients to implement culturally acceptable and effective interventions. Speaking your clients’ language is especially conducive to successful approaches. However, this is not always possible, and you need to know how to work effectively with an **interpreter** to improve outcomes. To provide a culturally sensitive approach, you must explore who should be involved in the intervention process. Spouses, family elders, or extended family members may be key decision makers and have a major impact on the success of the intervention. See Table 9.7 for a list of values and behaviors that may need to be explored in your interventions. Development of cultural skills can also include a much broader perspective by focusing on integrating target groups in planning, implementing, and evaluating interventions. Also, cultural sensitivity should be incorporated in all components of organizational structure for health practitioners to work effectively.

Cultural Encounters By exploring cultures different than your own, you learn about new ways of interpreting reality and can develop alternative lenses through which to view your interactions with those who appear different from you. Keep in mind that it will be natural to experience some discomfort during your investigations as you learn about values and beliefs that conflict with yours. However,

the process helps you develop attitudes congruent with cultural competence, such as appreciation, respect, and understanding.

When you think about diversity and culture, interesting activities are likely to come to mind. For example, learning about various forms of clothing, architecture, language, special foods, meal patterns, and cooking equipment can be engaging activities. However, cross-cultural communication produces

Table 9.5 Practical Guidelines for Cross-Cultural Communication

Interpersonal Considerations
<ul style="list-style-type: none"> • Smile, show warmth, and be friendly. • Attempt to learn and use keywords, especially greetings and titles of respect, in languages spoken by populations serviced by your organization. • Thank clients for trying to communicate in English. • Suggest that clients choose their own seat (to make comfortable personal space and eye contact possible). • Articulate clearly; speak in a normal volume. Often people mistakenly raise their voice when they feel others are having difficulty understanding them. • Paying attention to children appeals to women of most cultures; however, some believe that accepting a compliment about a child is not appropriate, especially in front of the child. • When interacting with individuals who have limited English proficiency, always keep in mind that those limitations do not reflect their level of intellectual functioning. Limited ability to speak the language of the dominant culture has no bearing on ability to communicate effectively in their language of origin. Furthermore, clientele may or may not be literate in their language of origin or in English. • Explain to clients that you have some questions to ask and that there is no intention to offend. Request that they let you know if they prefer not to answer any of the questions. • If you are not sure how to interpret a particular behavior, Magnus³⁶ suggests that you should ask for clarification. For example, you could ask, “I notice that you are mostly looking down. Would you tell me what that means for you?” • Follow your intuition if you believe something you are doing is causing a problem. Magnus³⁶ suggests that you ask, “There seems to be a problem. Is something I am doing offending you?” When informed of a difficulty, immediately apologize, “I am sorry. I didn’t mean to offend you.” • Ask clients to identify their ethnicity. The specific terms used to identify an individual’s ethnicity can be a touchy issue. For example, Asian, Oriental, Chinese, and Chinese American have been used to describe individuals of a similar background, but not all of these terms are acceptable to those individuals. To avoid alienation, a counselor should directly inquire about heritage with phrases such as, “How do you describe your ethnicity?”
Communicating Information
<ul style="list-style-type: none"> • Consider using a less direct approach than what is common among Americans. Gardenswartz and Rowe³⁷ suggest some communication approaches that may lower the risk of misunderstandings and hurt feelings: <ul style="list-style-type: none"> – Make observations rather than judgments about behaviors. For example, do not say, “Your dairy intake is low.” Instead say, “You eat one dairy food a day. Health authorities recommend we eat three.” – Refrain from using “you.” For example, say “People who have a low intake of calcium are at an increased risk for osteoporosis,” rather than “You are at an increased risk for osteoporosis.” – Be positive, saying what you want rather than what you do not want. For example, say, “Use a pencil to fill out the form,” rather than “Don’t use a pen to complete the form.” • Use visual aids, food models, gestures, and physical prompts during interactions with those who have limited English proficiency. • If answers are unclear, ask the same question a different way. • Consider using alternatives to written communications because word of mouth may be a preferred method of receiving information. • Write numbers down, just as they would appear in recipes, because spoken numbers are easily confused by those with limited skills in a language.

Source: Bauer, K. *Gaining Cultural Competence in Community Nutrition*. In: M. Boyle, Ed., *Community Nutrition in Action: An Entrepreneurial Approach*. Boston, MA: Cengage Learning, 2017, pp. 615–616.

Table 9.6 Culturally Sensitive Open-Ended Questions to Encourage a Response-Driven Interview**Questions to Understand the View and Treatment of Health Problems**

1. What name do you call your problem?
2. What do you feel may be causing your problem?
3. Why do you think it started when it did?
4. What does your sickness do to your body?
5. Will you get better soon, or will it take a long time?
6. What do you fear about your sickness?
7. What problems has your sickness caused for you personally? For your family? At work?
8. What kind of treatment will work for your sickness? What results do you expect from treatment?
9. What home remedies are common for this sickness? Have you used them?
10. Are there benefits to having this illness?

Questions to Aid Understanding About Traditional Healers

11. How would a healer treat your illness? Are you using that treatment?

Questions to Aid Understanding of Food Habits and to Assist in Completing a Nutritional Assessment

12. Can what you eat help cure your sickness? Or make it worse?
13. Do you eat certain foods to keep you healthy? To make you strong?
14. Do you avoid certain foods to prevent sickness?
15. Do you balance eating some foods with other foods?
16. Are there foods you won't eat? Why?
17. How often do you eat your ethnic foods?
18. What kinds of foods have you been eating?
19. Is there anyone else in your family who I should talk to?

Sources: Modified from P. G. Kittler, K. P. Sucher, and M. Nahikian-Nelms, *Food and Culture*, 7th ed. (Belmont, CA: Wadsworth/Cengage, 2017); and A. Kleinman and P. Benson, "Anthropology in the Clinic: The Problem of Cultural Competency and How to Fix It," *PLoS Med* 3, no. 10 (2006) e294. DOI: 10.1371, available at: <http://www.plosmedicine.org/article/info:doi/10.1371/journal.pmed.0030294>. Accessed July 24, 2019.

Table 9.7 Values and Behaviors of Various Cultural Groups

To behave in a culturally competent manner, your attitudes need to convey an understanding and acceptance of diverse values and behaviors such as those listed in this table.

- Family is defined differently by different cultures (for example, extended family members, fictive kin, godparents).
- Individuals from culturally diverse backgrounds may desire varying degrees of acculturation into the dominant culture.
- Male-female roles in families may vary significantly among cultures (for example, family decision making, play activities, and social interactions expected of male and female children).
- Age and life cycle factors must be considered in interactions with individuals and families (for example, high value placed on the decisions of elders or the role of the eldest male or female in families).
- Meaning or value of medical treatment, health education, and wellness may vary greatly among cultures.
- Religion and other beliefs may influence how individuals and families respond to illnesses, disease, and death.
- Folk and religious beliefs may influence a family's reaction and approach to a child born with a disability or later diagnosed with a disability or special health care need.
- Customs and beliefs about food, its value, preparation, and use vary from culture to culture.

Source: Adapted from material developed by Goode, T. D., National Center for Cultural Competence, Georgetown University Center for Child and Human Development.

special challenges because cultures influence how we view the world and interact with others. The more alike we are to individuals we work with, the more easily communication will flow because we have learned similar communication styles and taboos. Cultural encounters help us to learn the communication styles of other groups and increase the likelihood that communication will flow more smoothly.

Cultural Desire Motivation to engage in cross-cultural encounters stimulates the process of becoming culturally competent. Engaging in the other constructs of the Campinha-Bacote Model of Cultural Competence is likely to increase your cultural desire.³⁴

9.5 Guidelines for Delivering Cross Cultural Interviews and Interventions

A number of guidelines have been developed to assist health professionals in providing effective and culturally sensitive interventions. For the most part, they evolved from Arthur Klienman’s theory of explanatory models, which proposes that individuals and groups can have immensely different perceptions of health and disease.³⁸ His theory indicates the need for respondent-driven interview questions as listed in the first ten questions of Table 9.6. These questions encourage clients to express their understanding and concerns regarding their health

concern. The health practitioner exerts little control over the flow of the responses. To provide guidance for cross-cultural interviews and interventions, we will review two guidelines, LEARN Framework and the 4 Cs of Culture.

The LEARN Guideline

The LEARN Guideline was developed by Elois Ann Berlin and William C. Fowlkes³⁹ for health care providers to elicit cultural, social, and personal information relevant to a given illness episode. This model helps to reduce communication barriers and entails five steps to guide an intervention. See Table 9.8.

Table 9.8 The LEARN Guideline

Sequence and Description of Interactions	Example
Listen Active listening is an extremely important skill for a counselor to develop. Some factors related to listening merit emphasis for successful counseling across cultures. You should listen carefully to a client without assumptions or bias and recognize the client as the expert when it comes to information about his or her experience. Not only are you learning, but you are demonstrating to your client that what he or she has to say is important to you. Make sure you come to a common understanding of the issues and problems. All of this information will be important when designing intervention strategies.	Request clarification when necessary by saying, “I didn’t quite understand that.” Listen carefully to how food decisions are made. Probe to find out who does the food preparation and shopping and determine whether an additional person should be included in the next counseling session.
Explain To clarify that your understanding of the issues is accurate, you should explain back to the client your perception of what has been related. The explanation creates an opportunity to clarify any misunderstandings.	“You feel that diarrhea is a hot ailment, and your baby should not be given a hot food like infant formula but should drink barley water, a cool food. Did I understand you correctly?” Balancing intake of hot and cold foods is believed to help with healing among several Caribbean and Asian cultures.
Acknowledge The nutrition counselor should acknowledge the similarities and differences between cultures regarding the causes, symptoms, and treatment of the problem.	“Both you and your doctor feel that what your baby drinks will help her feel better. You feel your baby needs a cool food like barley water, and the health care providers at this clinic feel that your baby needs a drink with minerals like Pedialyte to get better.”
Recommend The client should be given several culturally sensitive options.	An Indian woman who is a vegetarian who wishes to lose weight might be given the following options: “You could start a walking program, reduce the amount of oil or butter used to make lentil dishes, use skim milk for making yogurt, or eat fruits instead of fried snacks.”

(continued)

Table 9.8 The LEARN Guideline (*continued*)

Sequence and Description of Interactions	Example
Negotiate After reviewing the options, the counselor and client should develop a culturally sensitive plan of action. By understanding the powerful influence of the client's culture as well as the equally powerful culture of biomedicine, the need for compromise and mediation become apparent. When the condition is life-threatening or the cultural differences are enormous, Kleinman ⁴⁰ recommends a cultural anthropologist or a respected member of the client's community aid in the negotiation. The health practitioner should decide what is critical and be willing to compromise on everything else.	Look to your client to select a starting point: "Which of these options do you think would be a good place to start?" After selecting an option, discuss how it will be implemented.

Table 9.9 The 4 Cs of Culture Guideline

Sequence	Explanation
What do you call your problem?	Do not literally ask, "What do you call your problem?" Instead, ask, "What do you think is wrong?"
What do you think caused your problem?	Alternative views to Western biomedicine could include a blockage of energy flow in the body, a breach of a taboo, punishment by God, or spirit possession.
How do you cope with your condition?	Ask questions such as, "What have you done to try to make it better? Who else have you been to for treatment? How have you been coping? What effect has it had on your life/daily routine?" Such questions are likely to reveal the use of traditional foods and therapies and possible reasons for not following a dietary guideline.
What concerns do you have regarding your condition?	Possible questions related to concerns include, "How serious do you think this is?" "What potential complications do you fear?" "How does it interfere with your life, or your ability to function?" "Do you know anyone else who has tried the dietary recommendations for your condition? What was their experience with it?" Such questions allow you to address their concerns, correct any misconceptions, and find workable solutions.

Source: Understanding Cultural Diversity in Healthcare. The 4C's of Culture. Available at: <http://www.ggalanti.org/the-4cs-of-culture/>. Accessed on July 24, 2019.

The 4 Cs of Culture Guideline

One guideline developed for health professionals is the 4 Cs of Culture, a mnemonic developed by Drs. Stuart Slavin, Alice Kuo, and Geri-Ann Galanti, to remember what questions to ask to obtain the client's point of view.⁴¹ The Cs refer to the following: What do you **call** your problem? What do you think **caused** your problem? How do you **cope** with your condition? What **concerns** do you have regarding your condition? Questions should be asked in a curious, nonjudgmental way. See Table 9.9 for further explanation.

9.6 Cross-Cultural Nutrition Counseling Algorithm

To understand how a culturally sensitive approach to nutrition counseling interfaces with the motivational

nutrition counseling algorithm presented in Chapter 4's Figure 4.2, a cross-cultural nutrition counseling algorithm is presented in Figure 9.4. This algorithm incorporates the response-driven interview questions in Table 9.6 and components of the cultural competency models reviewed in this chapter.

9.7 Working with Interpreters

Due to radical shifts in the U.S. demographic profile, the need for interpreters (spoken) and translators (written) has grown rapidly. Medical interpreters, also known as health care interpreters, provide language services to patients with limited English proficiency. Such individuals have a good understanding of medical and colloquial terminology in both languages, as well as cultural sensitivity to relay concepts and ideas. See Table 9.10 for guidelines for working with an interpreter. Sign language

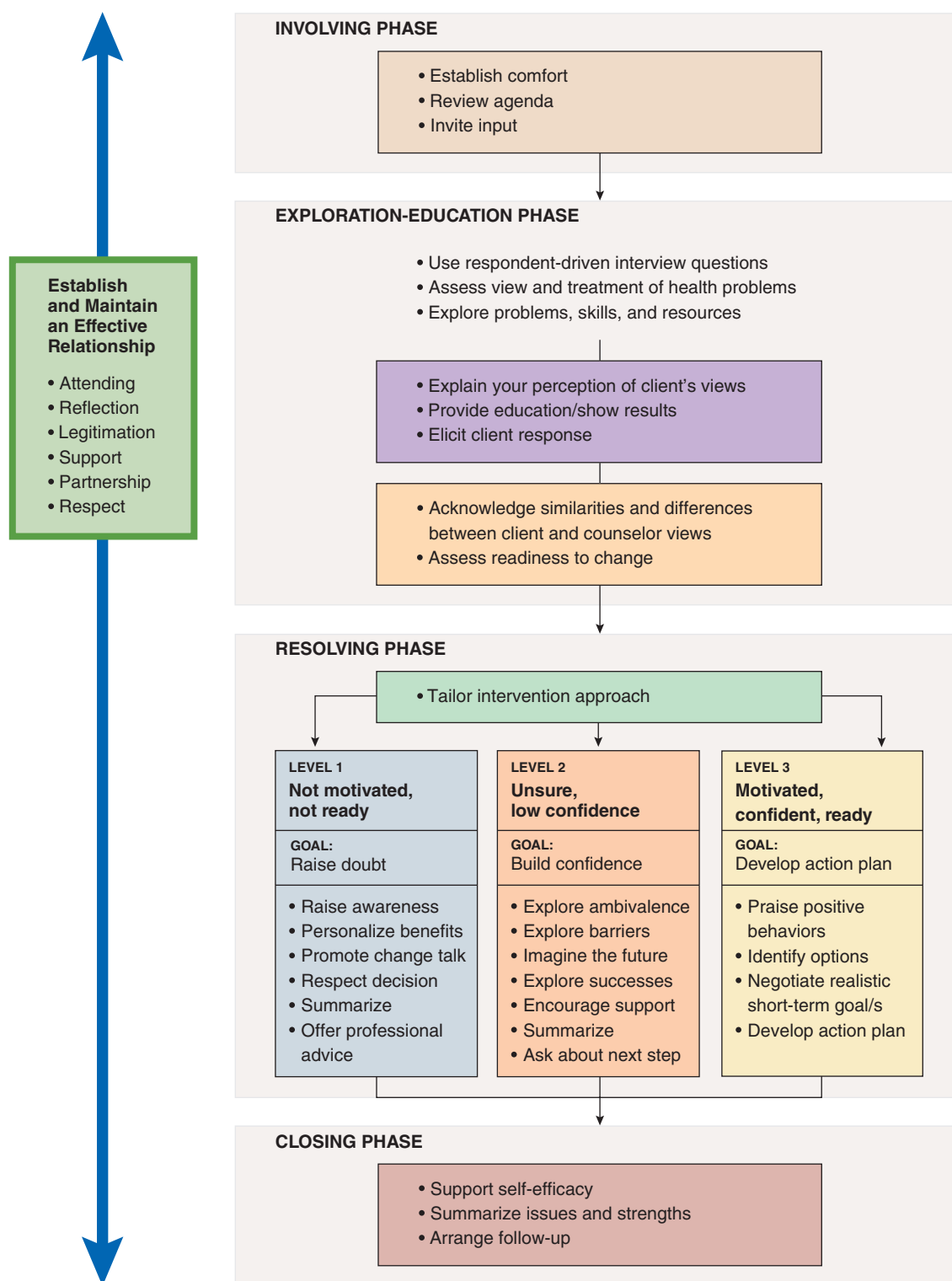


Figure 9.4 Cross-Cultural Nutrition Counseling Algorithm

Source: Adapted from Snetselaar, L., Counseling for Change. In: L. K. Mahan and S. Escott-Stump, eds., *Krause's Food, Nutrition, & Diet Therapy*, 10th ed.

Table 9.10 Guidelines for Working With an Interpreter

<ul style="list-style-type: none"> • Request an interpreter of the same gender and similar age. (Be sensitive and flexible in your selections since interpreters who are considerably older than a client may receive greater respect.)
<ul style="list-style-type: none"> • Decide before the meeting what questions will be asked.
<ul style="list-style-type: none"> • If possible, go over the questions with the interpreter before the meeting. A professional interpreter should be able to assist you in formulating new questions if certain ones are deemed offensive.
<ul style="list-style-type: none"> • Try to learn a few phrases of the client's language to use at the beginning or the end of the interview.
<ul style="list-style-type: none"> • Remember that sessions will take extra time. Schedule adequate time.
<ul style="list-style-type: none"> • Look at and speak directly to the client, not the interpreter.
<ul style="list-style-type: none"> • Speak clearly in short units of speech. Do not ask more than one question at a time.
<ul style="list-style-type: none"> • Avoid using slang, similes, metaphors, and idiomatic expressions. For example, do not say, "Do you have your ups and downs?"
<ul style="list-style-type: none"> • Listen carefully and watch body language for any changes in expression.
<ul style="list-style-type: none"> • Do not just follow prepared questions, but ask clients to expand upon new issues.
<ul style="list-style-type: none"> • To avoid misunderstandings, begin some of your sentences with "Did I understand you correctly that ...?" or "Tell me about ..."
<ul style="list-style-type: none"> • To check on the client's understanding and the accuracy of the interpretation, ask the client to back-translate important dietary instructions or guidelines. This technique may also open the conversation to questions by the client.
<ul style="list-style-type: none"> • Be aware that interpreters come to sessions with their own cultural biases and may not completely convey everything that has been said.

Source: Adapted from Luckmann, J. *Transcultural Communication in Health Care*. Belmont, CA: Cengage Learning, 2009.

interpreters are also available to foster communication between people who are deaf and those who can hear.

Too often health care providers resort to using non-professional interpreters, such as friends or relatives of clients or housekeeping staff. This approach has been shown to present numerous problems. Studies of untrained interpreters have documented many interpretation errors. For example in one case, *laxative* was used to describe diarrhea and in another case an untrained interpreter confused "teaspoon" for "tablespoon" when discussing medication dosage.^{42,43} Sometimes clients are reluctant or embarrassed to discuss certain problems in front of close relations, or the nonprofessional interpreter may decide that certain information is irrelevant or unnecessary and does not provide a complete interpretation. Such an interpreter may be unfamiliar with medical terminology and unknowingly make mistakes. All of these problems are compounded when a child is used as an interpreter. The difficulties of communication across cultures is illustrated in the story of a Hmong child, Lia, with epilepsy:⁴⁴

Lia developed an infection and severely seized ("like something out of The Exorcist") continuously for

nearly two hours. Doctors in the local community hospital had a difficult time stopping her seizures, and when they finally did, Lia was unconscious. Because her problems were complex, arrangements were made to transport her to a children's hospital with an intensive care unit. With the help of an interpreter, the situation was explained to Lia's non-English-speaking parents. The attending physician charted, "Parents spoken to and understood critical condition."

Later investigation revealed that the parents thought their child had to go to another hospital because the doctors at the community hospital were going on vacation.

In clinical settings, interpreters should be available to represent the major languages spoken in the area. Interpreter services by phone can be used to accommodate clients who speak languages not encountered frequently in the setting. There are numerous phone-based interpreter services available providing 24-hour service and some have video capability. In addition, smart medical translation apps are available for smartphones and tablets. Phone interpreters and mobile tools are useful for emergencies but cannot take the place of in-person professionals; some clients may

have difficulty communicating personal issues with a faceless voice.

9.8 Life Span Communication and Intervention Essentials

Since developmental tasks and learning needs vary according to stage of life, nutrition intervention approaches should be tailored to specific segments of the population. Professional and governmental organizations have developed a number of age-appropriate education media and materials. Resources can be found at the end of this chapter.

Preschool-Aged Children (2 to 5 Years)

Determinants of Food Behavior. Family, culture, media, and illness or disease have a major impact on young children's eating habits and nutritional health. Young children learn to enjoy foods that their family and cultural environment provide.⁴⁵ Media messages have been shown to be a significant variable influencing weight gain and nutritional status.^{46,47} A study of two-year-olds found that BMI increased for every hour per week of media consumed.⁴⁸ Young children watch approximately 24 hours of television per week and are exposed to numerous food commercials advertising unhealthy food selections. Interestingly, preschoolers are able to recognize a McDonald's logo even before they learn to read.⁴⁹

To the consternation of parents, many preschoolers are defined as picky eaters, having food jags (only want to eat certain foods), and a reluctance to taste new or unfamiliar foods. As an infant, a child may have been a good eater, but the desire to test independence, a decrease in the rate of growth, and a taste preference for sweet and familiar foods contribute to food issues.⁵⁰ Parents should be encouraged to keep introducing new foods because a child may need to be exposed to a food fifteen or more times before acceptance occurs.⁵¹ Research of Mexican children's preference for the taste of chili peppers indicates that introduction to new foods should occur in a positive atmosphere; threats should be minimized and encouragement provided when a new food is tasted.⁵² Children are able to physiologically recognize fullness and should not be forced to eat or clean their plate.⁵³

Developmental Factors. Preschoolers enjoy a creative and fanciful cognitive world. They are beginning to think symbolically, allowing them to make simplified drawings to depict people, houses, and other familiar objects. Although they have the ability to understand cause and effect, their thinking abilities do not permit them to

discern between food advertising and regular television programming.⁵⁴

In this developmental stage, learning is accomplished by exploring the environment rather than passive listening. Preschoolers need to be given opportunities to touch, feel, manipulate, question, compare, and identify objects.⁵⁴ They are capable of classifying foods based on color, shape, and function rather than by nutrient content.⁵⁵ By observing, modeling, and role-playing behaviors of parents, teachers, and their friends, children accumulate and process information. Parents need to know the importance of being good role models regarding their own food behavior as well as their attitudes toward food.

Nutritional Risks. Government survey reports indicate a need for young children to improve their diets.^{56,57} Only milk and fruit groups have been adequate for young children. Common nutrient deficits in early childhood are iron, zinc, and calcium. Increased intake of soft drinks and juice, displacing milk over the last two decades, has contributed to calcium deficiencies in young children.⁵⁸ The validated Family Nutrition and Physical Activity (FNPA) Screening Tool is available for practitioners to assess family environmental and behavioral factors that may predispose a child to becoming overweight.⁵⁹

Intervention Strategies

- **Limit digital media time to no more than one hour a day.** The American Academy of Pediatrics (AAP) recommendation states: "limit digital media use for children 2 to 5 years to no more than 1 hour per day to allow children ample time to engage in other activities important to their health and development and to establish media viewing habits associated with lower risk of obesity later in life."⁶⁰ The AAP created a tool, Personalized Family Media Use Plan, to help parents in this endeavor. The tool is available on their website.⁶¹
- **Involve family and caregivers in interventions.** Because family and caregivers are major role models and control home food environment and food choices, engaging significant others in working to change food behaviors of young children is essential.
- **Provide action-oriented behavior change activities.** Because children learn best through hands-on activities, interventions should be creative and fun, such as food tastings and food parties. Young children can help design meals, prepare foods, and shop for food. A counselor can also role play these activities with props.

- **Creative food records.** If keeping a diary of food is essential, consider having the child draw pictures of food consumed or putting a line through pictures of foods after they are eaten. Parental food diaries can also be used when more detailed information is needed.
- **Parental advice.** Parents can use a number of methods to improve their children's eating behavior. For example, have children choose between two good choices. Encourage a one bite rule: "You need to take just one bite." Introduce new foods at the beginning of a meal when children are most hungry. Presentation of food should be attractive and colorful. Minimize using food as a reward. Maintain a positive atmosphere during mealtime. Uphold regular mealtimes for a consistent pattern. Encourage family meals, which have been shown to be associated with better quality meals and healthier body weights.⁶²

Middle Childhood (6 to 12 Years)

Determinants of Food Behavior. Family, school, and screen media time (about 8 hours per day) are major factors related to food behavior for this age group.⁶³ As children get older, their use of various forms of screen viewing (such as television, electronic notebooks and tablets, computer games, smartphones, and the Internet) also increases. Screen time is associated with high-calorie snacking and poor food choices. Furthermore, television viewing is associated with a metabolism that is even lower than the body's metabolism while sleeping.⁶⁴ Screen time is associated with increased food intake and is blamed as a contributor to the obesity epidemic.⁶⁵ Popular children's websites are prime marketing sites for candy, cereal, fast-food restaurants, and snacks. In 2016, children viewed on average 11.3 food-related TV ads daily.⁶⁶ In addition, parents' eating behaviors as well as the quality of food available in the home environment are important determinants of children's dietary intake.⁶⁷ Finally, the dietary habits of many children are formed in school-based settings. Most U.S. children attend school for six hours a day and consume as much as half of their daily calories at school.

Developmental Factors. Middle childhood is marked by major cognitive, social, and physical development. Children in this age period are eager to understand the world in which they live. They acquire knowledge and begin to think causally, and are capable of theorizing why things happen. They are able to understand the function of food and how it influences health and growth. They are likely to accept adult viewpoints about food choices. Middle childhood is also characterized by the desire for

autonomy, allowing for self-regulatory intervention techniques.

Nutritional Risks. National surveys indicate that the diets of children 6 to 11 years of age are worse than children 2 to 5 years old. In general, children in this age group need to increase consumption of whole fruit, whole grains, dark green and orange vegetables, and legumes. They also need to decrease intake of saturated fat, sodium, and extra calories from solid fats and added sugars.⁵⁶ As for all developmental age groups, overweight and obesity are major issues.

Intervention Strategies

- **Multicomponent, school, and community-based interventions.** Policymakers looking for solutions to the growing obesity problem have increasingly paid closer attention to school food environments. The USDA Food and Nutrition Service guidelines and many state regulatory agencies have instituted healthier food standards for schools. The CDC instituted the Whole School, Whole Community, Whole Child (WSCC) Program to address the health and nutritional status of children in the United States.⁶⁸ The WSCC model is student-centered and emphasizes the role of the community in supporting the school, the connections between health and academic achievement, and the importance of evidence-based school policies and practices. Their objective interfaces well with the position statement of the Academy of Nutrition and Dietetics, School Nutrition Association, and Society for Nutrition Education and Behavior, which states that "comprehensive, integrated nutrition programs in preschool through high school are essential to improve the health, nutritional status, and academic performance of our nation's children."⁶⁹
- **Behavioral interventions.** Several reviews have indicated successful results using behavioral strategies for moderate (26–75 hours) or high intensity (>75 hours) interventions.^{69–72} Useful behavioral management techniques include self-monitoring of diet and physical activity, cue elimination, stimulus control, goal-setting, action-planning, modeling, limit setting, contingency management, positive reinforcement, and cognitive modifications. Another technique, differential attention, has been found helpful. This involves giving positive reinforcement (praise) for desired behavior, such as choosing a nutritious snack, and ignoring undesirable behavior, such as a complaint about television restriction.

- **Family-based interventions.** Family support is necessary as many of the behavioral interventions need to be actively helped by significant individuals in a child's life. In addition, parenting can influence attitudes, preferences, and values regarding food behavior in children. Family-based interventions, including diet, physical activity, behavior modification, and family counseling, for reducing weight of overweight and obese school-age children have been successful.⁷³
- **Develop, consistently follow, and routinely re-visit a Family Media Use Plan.** Although the AAP does not recommend a specific screen time limit for this age group, parents are encouraged to develop a family media plan to address limits and media behaviors for each child.⁷⁴ A tool to help develop a plan is available on their website.⁶¹
- **Use activity-oriented nutrition interventions.** There are numerous colorful books and games available for promoting nutrition education. See the end of the chapter for resources. For older children in this age group, handheld devices, Internet programs, and add-ons for mobile phones may be considered.

Adolescence (13 to 19 Years)

Determinants of Food Behavior. Multiple interconnecting factors impact eating patterns and food choices for adolescents. As teens continue to strive for autonomy, family influence on food choice tends to decline, and there is greater reliance on school food, vending machines, fast-food restaurants, and convenience stores. About 23 percent of adolescents eat three or more snacks a day, and most of these snacks are high in fat, sugar, or sodium.^{75,76} Fast-food establishments frequently employ teenagers, allowing teens to have easy access to reduced price or free tasty, low-nutrient dense foods. In addition, going out to eat with friends to fast-food restaurants is a common social and recreational activity.

Adolescents, having access to large amounts of discretionary income, are the targets of aggressive marketing campaigns.⁷⁷ Marketers are aware of teenagers' purchasing power, especially for desserts, snacks, and beverages. As a result, adolescents are surrounded with messages to buy numerous types of unhealthy foods.⁷⁸ Additionally, high schools advertise soft drinks, candy, snack foods, and fast food on school buses, free book covers, yearbooks, sport scoreboards, and even in daily in-class television news programs. Entertainment media screen time accounts for 11 hours of a teen's total day, leaving little time for physical activity.⁶³ Approximately one-quarter of teenagers describe themselves as "constantly connected" to the

Internet.⁷⁹ Furthermore, adolescents report they are stressed for time because of demanding schedules and want to sleep longer, so they frequently skip breakfast and believe they are too busy to worry about eating well.⁷⁵

Developmental Factors. During adolescence, dramatic physical, cognitive, and psychosocial changes occur. This is a period in which family values and standards are scrutinized and may be rejected. Adolescents go through three stages of development, which have implications for guiding interventions. Early adolescence is "characterized by respect for adult authority, discomfort with the physical changes of puberty, lack of future time perspective, and concrete, or 'black and white,' reasoning skills."⁸⁰ The best approaches for individuals in this stage include family involvement and educational materials with clear messages. The next stage is "characterized by recurrent challenges to family or parental authority and belief systems, reliance on peers for standards in appearance and behavior, increasing capacity for abstract reasoning, and experimentation in dating and sexual behavior."⁸⁰ Because of the need to "fit in," influence of peers on food behavior is particularly high. In this stage, problem identification, role-playing, and using teens' abstract thinking capability to evaluate "what if" possibilities are useful interventions. During the last stage of adolescence, there is greater confidence in their own internalized values and "fewer challenges to adult authority; less reliance on peer standards; ... and increased capacity to solve complex life problems."⁸⁰ Interventions addressing the complexity of their health issues and focusing on the pros and cons of current choices can be helpful approaches during late stage adolescence.

Nutritional Risks. Poor quality diets of adolescents are putting them at risk for cardiovascular disease, cancer, and osteoporosis. National surveys report high intakes of saturated fat, total fat, sodium, calories, and soft drinks and inadequate consumption of fruits, vegetables, whole grains, and calcium.⁸¹ Overweight, obesity, smoking, disordered body image, low levels of physical activity, and disordered eating are major issues for this age group.⁸² A study from the University of Minnesota School of Public Health found that nearly all young people have struggles with eating, activity, and weight as they move from adolescence to adulthood.⁸³

Intervention Strategies

- **Motivational Interviewing (MI).** MI encourages critical thinking skills, which is thought to be important for adolescent interventions. However, a recent review of MI alone for treating overweight

and obesity in adolescents did not show to be effective. MI as a component of an intervention could still be considered. See Chapter 2 for a discussion of this counseling method.⁸⁴

- **Use of behavioral strategies.** Useful behavioral strategies include development of decision-making skills, self-regulation and self-evaluation, personal action plans, and goal setting.⁸⁵
- **Multicomponent, school-based interventions.** School-based interventions incorporating multiple strategies have been shown to be successful for this age group.⁶³ These may include a comprehensive school policy; healthy vending machine, school store, and cafeteria options; training for teachers, administrators, and staff; referrals for nutritional problems; integration of food service with classroom education; development of a comprehensive school health curriculum; involvement of community and parents; and scheduled periodic evaluations of the intervention.
- **Consider multivariable outcomes measures.** Behavioral, psychosocial, or medical endpoints can be used as targets in addition to weight or as an alternative to weight measures. These could include dietary intake, nutritional status, physical activity levels, self-esteem or body image assessments, blood pressure, blood lipids, or blood glucose concentrations.⁷⁰
- **Possible intervention activities and topics.** Potential strategies include analysis of media and peer-based messages and restaurant menus. Consider role-playing scenarios for problem behaviors. Create food demonstrations and taste tests. Adolescents may be responsive to messages addressing increased energy, athletic performance, and physical appearance.⁸⁵ Consider using the Athletes Plate graphic as described in Chapter 8. Many teens are technology savvy and may respond to interventions using Facebook, instant messaging, taking pictures of their foods with a cell phone, or making mini videos of food experiences to be reviewed in a counseling or group session. Some interventions show success using mobile or wearable technology.⁸⁶ In addition, adolescents can be directed to helpful teen-friendly educational websites.
- **Use a collaborative approach.** For treatment of **eating disorders**, nutritionists should collaborate with psychologists and medical specialists.

Older Adults

Issues concerning older adults vary with age, and the U.S. Census divides older adults into three categories:

ages 65 to 74 (young-old), ages 75 to 84 (old), and ages 85 and older (oldest-old). A dramatic increase in numbers of all three categories is expected in the near future, with the fastest growth in the oldest-old category. This segment of the population will use many of the nation's health care resources. There will be an increasing need for nutritionists who have expertise in working with older adults.

Determinants of Food Behavior. A variety of physical, social, economic, cultural, and psychological factors affect food behavior of older Americans. Nearly half of older adults are considered to be individuals who are low income or living below the poverty line. This group faces the challenge of providing adequate quantity and quality of food. Almost 44 percent of older adults live alone. In 2018, 70 percent of men and 46 percent of women over 65 were married. Loss of spouse and other close relationships may lead to loneliness, depression, and social isolation, thus affecting appetite and consumption of nutrient-dense foods. Additionally, individuals may shy away from social occasions due to hearing loss. The health risk of social isolation is equivalent to fifteen cigarettes a day. A loss of taste buds, reducing the ability to taste, decline in smell, and dentures or other oral difficulties may also reduce desire to eat. Individuals with chronic diseases often take multiple medications, which may affect appetite and restrict meal times. Older adults are more likely to suffer from disabilities. Arthritis is the most frequent cause of **disability** among all older adult categories. Arthritis can reduce mobility and severely impact buying, preparing, and consuming food. Although most seniors have health insurance, average out-of-pocket health care expenditures was \$6,620 in 2017.^{87,88}

Developmental Factors. In 2011, life expectancy in the United States was 78 years, but the average healthy life span was only 70 years.⁸⁹ In all likelihood, nutritional factors play a role in the development of disease and disabilities that plague the final years. In 2018, 47 percent had two to three chronic conditions. Eighty-seven percent of older adults live with diabetes, hypertension, abnormal blood lipid profiles, or a combination of these chronic disorders.⁹⁰ The prevalence of obesity among those 60 years and older is 35.4 percent; however, health professionals are encouraged to assess the benefits versus the risks of recommending a weight loss intervention. For the old and the oldest-old groups, extreme thinness and sarcopenia become new concerns.^{88,91}

A profile of older adults, those born before 1945, indicates that they are generally concerned about improving their diets and attribute good health to a moderate

diet, daily activity, and not smoking. They shop frugally, know how to prepare and store food, but still enjoy eating out frequently. Older adults are generally not concerned with body image. They are not likely to act on a chronic health problem until a definite diagnosis is made. Before retirement, their approach to work was “live to work,” and they have had to learn multiple new technologies. As a group, they are better educated than the past generation of older adults. Although most are retired, belief in the importance of work and the need for additional income have encouraged some to seek part-time employment.⁹²

The aging process reduces physiological processes on a number of levels. Changes in gastrointestinal function can reduce nutrient absorption and utilization. For example, lower stomach acidity reduces vitamin B12 and calcium absorption. Vitamin D is also a concern because of decreased absorption and a reduced ability of the kidneys to convert it into the active form. Medications and specific diseases, such as kidney disease, can exacerbate these effects. Older adults especially need to choose nutrient-dense foods. Because resting energy expenditure declines and there is often a reduction in activity level, older adults need fewer calories. However, the need for nutrients remains the same or even increases. In particular, the need for vitamin D and calcium increases with age, and older adults are encouraged to take a synthetic form of vitamin B12, which can be found in fortified foods and supplements.⁹²

Nutritional Risks. According to the Healthy Eating Index reports, 83 percent of older adults do not have a good quality diet. Older Americans need to increase their intake of whole grains, dark green and orange vegetables, legumes, and dairy foods. In addition, they need to consume fewer foods high in saturated fats, sugars, and sodium. As a result of their poor diet, intake of zinc, iron, folate, and antioxidants are often inadequate. Another concern, especially for the oldest-old, is dehydration due to reduced kidney function, inadequate thirst regulation, and possible side effects from medications.⁸⁸

Intervention Strategies

- **If food assistance is needed, make a referral.** Various food assistance programs for older adults have been shown to increase interest in healthy foods and improve nutritional health among participants.⁸⁸ See Table 9.11.
- **Encourage social interactions.** Explore your clients' social life and encourage daily interactions. This increases morale, health status, and food intake. The congregate food program addresses the need for social support.

Table 9.11 National Programs Promoting Better Nutrition among Older Adults

Older Americans Act (which administers the Elderly Nutrition Program)	Congregate meals served at least five days a week in churches, schools, senior centers, or other facilities. Transportation, shopping assistance, and home meals are available.
Supplemental Nutrition Assistance Program (SNAP)	Provides coupons or electronic benefits transfers (EBT) to low-income individuals, including the elderly, to buy food.
SNAP Nutrition Education	Provides information about making healthful food choices.
Meals on Wheels Association of America	Delivers meals to elderly individuals.
Senior Farmer's Market Nutrition Program (SFMNP)	A USDA program that provides coupons for low-income seniors to buy eligible foods at farmers' markets, roadside stands, and community-supported agricultural programs.
Child and Adult Care Food Program	Provides meals and snacks to participating day care programs.

- **Use MyPlate Resources.** The MyPlate pictorial is a convenient and easy to use educational tool. The American Diabetes Association has a similar tool called Create Your Plate to inform newly diagnosed individuals with diabetes how to organize their meals and manage their blood sugar levels.
- **Use Mini Nutritional Assessment (MNA)[®].** The MNA is a simplified validated assessment tool that can be administered by a nutritionist relatively quickly to measure the nutritional status of elderly persons.⁹³ See Figure 9.5.
- **Use Nutrition Screening Initiative checklist.** The Academy of Nutrition and Dietetics, the American Academy of Family Physicians, and the National Council on Aging collaborated to create a ten-question self-assessment checklist to identify noninstitutionalized older persons at risk for low nutrient intake and health problems. Research



Mini Nutritional Assessment MNA®

Last name:	First name:	Sex:	Date:
Age:	Weight, kg:	Height, cm:	I.D. Number:

Complete the screen by filling in the boxes with the appropriate numbers.

Add the numbers for the screen. If the score is 11 or less, continue with the assessment to gain a Malnutrition Indicator Score.

Screening	
A Has food intake declined over the past 3 months due to loss of appetite, digestive problems, chewing or swallowing difficulties? 0 = severe loss of appetite 1 = moderate loss of appetite 2 = no loss of appetite	<input style="width: 30px;" type="text"/>
B Weight loss during the last 3 months 0 = weight loss greater than 3 kg (6.6 lbs) 1 = does not know 2 = weight loss between 1 and 3 kg (2.2 and 6.6 lbs) 3 = no weight loss	<input style="width: 30px;" type="text"/>
C Mobility 0 = bed or chair bound 1 = able to get out of bed/chair but does not go out 2 = goes out	<input style="width: 30px;" type="text"/>
D Has suffered psychological stress or acute disease in the past 3 months 0 = yes 2 = no	<input style="width: 30px;" type="text"/>
E Neuropsychological problems 0 = severe dementia or depression 1 = mild dementia 2 = no psychological problems	<input style="width: 30px;" type="text"/>
F Body Mass Index (BMI) (weight in kg) / (height in m ²) 0 = BMI less than 19 1 = BMI 19 to less than 21 2 = BMI 21 to less than 23 3 = BMI 23 or greater	<input style="width: 30px;" type="text"/>
Screening score (subtotal max. 14 points) <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/> 12 points or greater Normal – not at risk – no need to complete assessment 11 points or below Possible malnutrition – continue assessment	
Assessment	
G Lives independently (not in a nursing home or hospital) 0 = no 1 = yes	<input style="width: 30px;" type="text"/>
H Takes more than 3 prescription drugs per day 0 = yes 1 = no	<input style="width: 30px;" type="text"/>
I Pressure sores or skin ulcers 0 = yes 1 = no	<input style="width: 30px;" type="text"/>
<small>Ref. Vellas B, Villars H, Abellan G, et al. Overview of the MNA® - Its History and Challenges. J Nutr Health Aging 2006; 10:456-465. Rubenstein LZ, Harker JO, Salva A, Guigoz Y, Vellas B. Screening for Undernutrition in Geriatric Practice: Developing the Short-Form Mini Nutritional Assessment (MNA-SF). J Geront 2001; 56A: M366-377. Guigoz Y. The Mini-Nutritional Assessment (MNA®) Review of the Literature - What does it tell us? J Nutr Health Aging 2006; 10:466-487.</small>	
<small>© Nestlé, 1994, Revision 2006. N67200 12/99 10M For more information : www.mna-elderly.com</small>	
J How many full meals does the patient eat daily? 0 = 1 meal 1 = 2 meals 2 = 3 meals	<input style="width: 30px;" type="text"/>
K Selected consumption markers for protein intake • At least one serving of dairy products (milk, cheese, yogurt) per day yes <input type="checkbox"/> no <input type="checkbox"/> • Two or more servings of legumes or eggs per week yes <input type="checkbox"/> no <input type="checkbox"/> • Meat, fish or poultry every day yes <input type="checkbox"/> no <input type="checkbox"/> 0.0 = if 0 or 1 yes 0.5 = if 2 yes 1.0 = if 3 yes	<input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>
L Consumes two or more servings of fruits or vegetables per day? 0 = no 1 = yes	<input style="width: 30px;" type="text"/>
M How much fluid (water, juice, coffee, tea, milk...) is consumed per day? 0.0 = less than 3 cups 0.5 = 3 to 5 cups 1.0 = more than 5 cups	<input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>
N Mode of feeding 0 = unable to eat without assistance 1 = self-fed with some difficulty 2 = self-fed without any problem	<input style="width: 30px;" type="text"/>
O Self view of nutritional status 0 = views self as being malnourished 1 = is uncertain of nutritional state 2 = views self as having no nutritional problem	<input style="width: 30px;" type="text"/>
P In comparison with other people of the same age, how does the patient consider his/her health status? 0.0 = not as good 0.5 = does not know 1.0 = as good 2.0 = better	<input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>
Q Mid-arm circumference (MAC) in cm 0.0 = MAC less than 21 0.5 = MAC 21 to 22 1.0 = MAC 22 or greater	<input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>
R Calf circumference (CC) in cm 0 = CC less than 31 1 = CC 31 or greater	<input style="width: 30px;" type="text"/>
Assessment (max. 16 points) <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>	
Screening score <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>	
Total Assessment (max. 30 points) <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>	
Malnutrition Indicator Score	
17 to 23.5 points At risk of malnutrition	<input style="width: 30px;" type="text"/>
Less than 17 points Malnourished	<input style="width: 30px;" type="text"/>

Figure 9.5 Mini Nutritional Assessment

Source: ©Société des Produits Nestlé S.A., Vevey, Switzerland, Trademark Owners. © Nestlé, 1994, Revision 2009. N67200 12/99 10M. Vellas, B., Villars, H., Abellan, G., et al. Overview of the MNA®—Its History and Challenges. *J Nutr Health Aging* 2006; 10:456–465. Rubenstein, L. Z., Harker, J. O., Salva, A., Guigoz, Y., Vellas, B. Screening for Undernutrition in Geriatric Practice: Developing the Short-Form Mini Nutritional Assessment (MNA-SF). *J Geront* 2001; 56A: M366–377. Guigoz, Y. The Mini-Nutritional Assessment (MNA®) Review of the Literature—What does it tell us? *J Nutr Health Aging* 2006; 10:466–487.

indicated that this tool can be useful as a screening tool for educational purposes but not for program evaluation.⁸⁸ See Figure 9.6.

- **Suggestions for effective interventions.** Nutrition education messages should address physical, emotional, and social needs of older adults. Keep message content clear and direct with practical dietary applications, such as “eat green leafy vegetables every day.” Use visuals and nutrition education materials that are clearly visible and easy to read. Engage audiences in discussion and respect older adults’ knowledge and prior experiences. Be a good listener as well as an effective facilitator of discussion. Use action-oriented activities to stimulate older adults’ attention and motivation for learning. Consider using mobile application for tech-savvy individuals. Wearable technology has been used successfully with older adults, 55–79 years old.^{94,95}

The Warning Signs of poor nutritional health are often overlooked. Use this Checklist to find out if you or someone you know is at nutritional risk.

Read the statements below. Circle the number in the “yes” column for those that apply to you or someone you know. For each “yes” answer, score the number in the box. Total your nutritional score.

DETERMINE YOUR NUTRITIONAL HEALTH

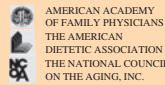
	YES
I have an illness or condition that made me change the kind and/or amount of food I eat.	2
I eat fewer than 2 meals per day.	3
I eat few fruits or vegetables or milk products.	2
I have 3 or more drinks of beer, liquor or wine almost every day.	2
I have tooth or mouth problems that make it hard for me to eat.	2
I don't always have enough money to buy the food I need.	4
I eat alone most of the time.	1
I take 3 or more different prescribed or over-the-counter drugs a day.	1
Without wanting to, I have lost or gained 10 pounds in the last 6 months.	2
I am not always physically able to shop, cook and/or feed myself.	2
TOTAL	

Total Your Nutritional Score. If it's –

- 0–2 Good! Recheck your nutritional score in 6 months.
- 3–5 You are at moderate nutritional risk. See what can be done to improve your eating habits and lifestyle. Your office on aging, senior nutrition program, senior citizens center or health department can help. Recheck your nutritional score in 3 months.
- 6 or more You are at high nutritional risk. Bring this Checklist the next time you see your doctor, dietitian or other qualified health or social service professional. Talk with them about any problems you may have. Ask for help to improve your nutritional health.

Remember that Warning Signs suggest risk, but do not represent a diagnosis of any condition. Turn the page to learn more about the Warning Signs of poor nutritional health.

These materials are developed and distributed by the Nutrition Screening Initiative, a project of:



The Nutrition Screening Initiative • 1010 Wisconsin Avenue, NW • Suite 800 • Washington, DC 20007
The Nutrition Screening Initiative is funded in part by a grant from Ross Products Division of Abbott Laboratories, Inc.

Figure 9.6 Checklist to Determine Your Nutritional Health

Source: Based on the Nutrition Screening Initiative, a project of the American Academy of Family Physicians, The American Dietetic Association, and the National Council on Aging, Inc., and funded in part by a grant from Ross Laboratories, a division of Abbott Laboratories.

Exercise 9.2 Analyze Marketing for Each Age Group

Search for a newspaper or magazine advertisement promoting a food product or targeting a body image for each of the four lifespan categories: preschool, middle childhood, adolescence, and older adults. Analyze what stereotypes or developmental issues are being addressed in the advertisements. In your journal, write your impressions of the impact of each advertisement on the targeted age group.

Exercise 9.3 Lifespan Interview

Interview an individual or, in the case of a preschooler, the parent from one of the four lifespan categories: preschool, middle childhood, adolescence, or older adults. Use the Typical Day Strategy found in Chapter 4 to gather information for a 24-hour recall. Record food intake information on Lifestyle Management Form 5.3 in Appendix C. Use the MyPlate.gov website to evaluate food group servings of the 24-hour recall. In your journal, identify the date of the interview, the name and age of the interviewee. Summarize your findings. How did your findings relate to your readings?

Exercise 9.4 Counselor Interview

Interview an individual who counsels one of the four lifespan age groups reviewed in this chapter. In your journal, provide the following information:

- ☐ Identify the date of the interview, name, and address of the organization where the interviewee works.
- ☐ Job description of the interviewee.
- ☐ What special skills does a counselor need to possess to work effectively with this age group?
- ☐ Are there counseling techniques this counselor finds especially effective when working with this age group?
- ☐ What advice can this counselor give regarding involvement with this age group?
- ☐ Report two things you learned from this interview and explain how this will help you in your own counseling activities.

9.9 LGBTQ (Gay, Lesbian, Bisexual, Transgender, Queer) Population

Consider an individual going for a mammogram who was identified as female at birth but never felt comfortable with that designation and changed his identity to male, including his name. He may have gone through

hormone therapy or had surgery to help change his appearance or he may use devices or clothing to help the transformation. Based on past experiences, he believes there will be a number of uncomfortable experiences. Previously he had health care professionals and staff blatantly say they would not treat someone like him, ask embarrassing questions in the waiting room, and refuse to use the pronouns *he*, *him*, or *his*. Intake forms only have male and female designations. What does he put? There are only male and female bathrooms. If he goes to the male bathroom, and the staff believes he should be in the women's restroom, will there be uncomfortable stares or verbal reprimands? He thinks, "Maybe I won't have a mammogram. I will cancel my appointment."

Although some health care providers intentionally discriminate against **LGBTQ** people, others simply lack knowledge and cultural sensitivity and inadvertently stigmatize nonbinary individuals.⁹⁶ To improve health care for this population group, all health care workers need to increase their knowledge and skills to work effectively with LGBTQ individuals.

Terminology

LGBTQ is an umbrella term for two distinct components of identity: sexual orientation and gender identity.

Sexual orientation is an identity label indicating an attraction romantically and sexually, but may not correspond to the full range of a person's sexual behavior. For example, a gay man may be attracted to other men but still have sexual relations with women.⁹⁷ *Gender identity* is the personal sense of one's own gender. A person can identify with the assigned sex at birth or can differ from it. See Table 9.12 for various categories of gender identity as well as definitions related to the LGBTQ community.

LGBTQ in the United States

There are several factors complicating quantifying the numbers of LGBTQ individuals in the United States. First, many national surveys historically did not ask the question. For surveys in which the question was asked, fear of safety and discrimination could cause a person to not give a truthful answer. The National LGBTQ Task Force Policy Institute estimates the LGBTQ population between 5 percent and 10 percent of the general population. A Williams Institute survey indicates about 3.5 percent of U.S. adults self-identify as lesbian, gay, and bisexual, and 0.6 percent identify as transgender. However, recent surveys of younger individuals show higher numbers. Possibly changes in cultural

Table 9.12 LGBTQ Terminology

Term	Description
<i>Gender Identity</i>	
Agender	Describes a person who identifies as having no gender
Cisgender	Describes a person whose sex and gender identity align. i.e., someone who was assigned male at birth and identifies as male/masculine.
Gender fluid	Describes a person whose gender identity is not fixed. A person who is gender fluid may always feel like a mix of female and male, or may feel they are more one gender some days and another gender other days.
Gender non-conforming (GNC)	An umbrella term describing gender expression that differs from a given society's norms of only male and female
Genderqueer	Describes a person whose gender identity falls outside the traditional gender binary of male and female.
Natal sex	Sex identity assigned to individuals at birth
Non-binary	An umbrella term covering any gender identity that does not fit within the gender binary of male and female.
Transgender man	A transgender person whose gender identity is male. Transgender men were assigned female at birth.
Transgender woman	A transgender person whose gender identity is female. Transgender women were assigned male at birth.
Two-spirit	Describes Native American/Alaskan Native LGBTQ people, stemming from language meaning to have both female and male spirits within one person. The term has different meaning in different communities.

(continued)

Table 9.12 LGBTQ Terminology *(continued)*

Term	Description
<i>Sexual Orientation</i>	
Asexual	Describes a person who experiences little or no sexual attraction to others.
Bisexual	Describes a person who is emotionally and sexually attracted to people of their own gender and people of the other binary gender.
Gay	Describes a man who is emotionally and sexually attracted exclusively to other men.
Lesbian	Describes a woman who is emotionally and sexually attracted exclusively to other women.
Pansexual	Describes a person who is emotionally and sexually attracted to people of gender identities throughout the gender spectrum.
Queer	An umbrella term used by some to describe people who think of their sexual orientation or gender identity as outside of societal norms. Some people view the term queer as more fluid and inclusive than traditional categories of sexual orientation and gender identity. Due to its history as a derogatory term, it is not embraced or used by all of the LGBTQ community.

Source: MORE THAN PINK, LGBTQ Breast Health. Susan G. Komen Puget Sound, 2016 Available at http://komenpugetsound.org/wp-content/uploads/2016/11/More-Than-Pink-LGBTQ-Breast-Health_web.pdf

acceptance and momentous progress in legal equality has encouraged individuals to openly identify themselves as LGBTQ. A 2017 Harris Poll found that 20 percent of people between ages 18 and 34 identify as LGBTQ. A 2016 study of 13- to 20-year-olds in the United States by a trend forecasting agency found that only 48 percent identified themselves as exclusively heterosexual.^{97,98}

LGBTQ Health Disparities

The LGBTQ community experiences numerous health issues. In October 2016, the National Institutes of Health formally designated sexual and gender minorities as a health-disparate population.⁹⁹ LGBTQ individuals face health disparities linked to minority stress, societal stigma, discrimination, and denial of their civil and human rights. Minority stress refers to that stigma, prejudice, and discrimination that creates a hostile and stressful social environment that causes mental and physical health problems.¹⁰⁰ A study of LGBT people who lived in communities with high levels of antigay prejudice were likely to die twelve years earlier than their peers who lived in low-prejudice communities.¹⁰¹ Higher death rates were attributed to suicide, homicide, and cardiovascular disease.

The following are some examples of LGBTQ disparities listed in the Healthy People 2020 report.¹⁰²

- LGBT youth are two to three times more likely to attempt suicide.
- LGBT youth are more likely to be homeless.

- Lesbians are less likely to get preventive services for cancer.
- Gay men are at higher risk of HIV and other STDs, especially among communities of color.
- Lesbians and bisexual females are more likely to be overweight or obese.
- Transgender individuals have a high prevalence of HIV/STDs, victimization, mental health issues, and suicide and are less likely to have health insurance than heterosexual or LGBT individuals.
- Elderly LGBT individuals face additional barriers to health because of isolation and a lack of social services and culturally competent providers.
- LGBT populations have the highest rates of tobacco, alcohol, and other drug use.

Culturally Sensitive Health Care for LGBTQ People

To provide culturally competent care for LGBTQ individuals, health professionals need to be knowledgeable about the various factors that affect their health status (e.g., discrimination), health disparities that plague LGBTQ people, and how to create a welcoming environment for quality care. See Table 9.13. Nutrition professionals need to be aware of particular nutritional issues for LGBTQ people. For example, gendered energy equations may not accurately access transgender individuals, hormone supplements can increase susceptibility to cardiovascular disease, and weight gain is an issue for lesbians.^{97,103}

Table 9.13 Recommendations for Culturally Sensitive Health Care for LGBTQ People

Develop intake forms that allow patients/clients to self-identify their gender for example, Gender: _____. Providing a blank space allows people to write what they feel is most accurate.
Ask patients in a respectful manner what their preferred name and pronoun is and then ensure that all providers and staff, charts, forms, and labels use those pronouns and names.
Rather than asking marital status, for example, the form might read, “relationship status: married, partnered, or significant other.”
Refrain from making assumptions about a person’s sexual orientation or gender identity based on appearance.
Post a nondiscrimination policy that includes gender identity and sexual orientation.
Remove sex designations from identifying documentation unless necessary.
Post LGBTQ-friendly signage, brochures, and reading material in your waiting room.
Create or designate unisex or single-stall restrooms.
Educate yourself about local and national resources for LGBTQ clients.

Sources: Adapted from: Fergusson, P., Greenspan, N., Maitland, L., et al. Towards Providing Culturally Aware Nutritional Care for Transgender People: Key Issues and Considerations. *Can J Diet Pract Res*. 2018; 79:74–79. DOI: 10.3148/cjdp-2018-001; The Joint Commission. *Advancing Effective Communication, Cultural Competence, and Patient- and Family-Centered Care for the Lesbian, Gay, Bisexual, and Transgender (LGBT) Community: A Field Guide*, 2014. Available at: <https://www.jointcommission.org/lgbt/>. Accessed July 30, 2019.

9.10 Eating Disorders

Eating disorders (EDs) are psychiatric disorders with diagnostic criteria based on psychologic, behavior, and physiologic characteristics. There are three main categories of eating disorders—anorexia nervosa (AN), bulimia nervosa (BN), and eating disorder not otherwise specified (EDNOS), which includes binge eating disorder.¹⁰⁴ People with AN strive for extreme thinness, for example, 85 percent below normal weight. They have a pronounced fear of becoming fat and exhibit endocrine difficulties, loss of menstruation in females, and lack of sexual potency in males. People with AN have the greatest morbidity and mortality of any mental health condition.¹⁰⁵ Individuals with bulimia nervosa also fear becoming overweight, but they have an overwhelming urge to consume large quantities of food. In response, they perform inappropriate compensatory behaviors including vomiting, excessive exercise, severe calorie restriction, or misuse of laxatives, enemas, or diuretics. EDNOS includes many types of eating disorders including purging in the absence of binge eating, meeting some but not all of the symptoms of anorexia or bulimia nervosa, and chewing and spitting out food. This category includes binge eating disorder, in which individuals binge eat but do not use compensatory behaviors such as vomiting.¹⁰⁴

A comprehensive and interdisciplinary approach is needed to treat the emotional, physical, and interpersonal issues that characterize eating disorders.¹⁰⁴ Nutrition professionals are an essential component of this team. The Academy of Nutrition and Dietetics advocates for

registered dietitians to collaborate with other professions during assessment and treatment across the continuum of care. Family-based therapy has been successfully used with younger individuals with AN. After weight gain, the medical team may use Cognitive Behavioral Therapy (CBT). CBT is also commonly used for treating BN and EDNOS.^{104,105} For nutrition professionals who desire to work with this population group, specialized training is needed to understand the complexities of treatment.

As nutrition educators, we should be cognizant that nutrition messages, especially from parents, emphasizing weight, rather than health, may influence the development of an eating disorder.¹⁰⁶ In addition, dieting may be the beginning of a struggle with eating disorders.¹⁰⁷

9.11 Weight Bias

Approximately two-thirds of Americans are overweight or obese. Nutrition professionals need to learn communication essentials and treatment options for working with individuals who have weight issues. An important first step in developing effective communication skills is investigating your attitudes and possible bias toward this population group. See Table 9.14 for a list of questions to begin the process. Studies indicate that dietetic students and dietitians hold negative attitudes and beliefs about overweight individuals similar to other health professionals, including physicians, medical students, nurses, psychologists, physical education instructors, and even health professionals who specialize in obesity.^{108–114}

Table 9.14 Self-Assessment Questions to Evaluate Attitudes Toward Overweight and Obese Individuals

- Do I make assumptions about a person's character, intelligence, health status, or lifestyle behaviors based only on body weight?
- Am I comfortable working with patients of all sizes?
- What kind of feedback do I give obese patients?
- Am I sensitive to the needs and concerns of obese patients?
- What are common stereotypes about obese people? Do I believe these to be true or false? What are my reasons for my beliefs?

Source: Puhl, R. M. *Treating Obese Patients: The Importance of Improving Provider-Patient Interaction*. 05/27/2010 Medscape Public Health & Prevention. Available at: <http://www.medscape.com/viewarticle/722041>. Accessed April 14, 2014.

Stereotypes within Western cultures stigmatize the overweight and obese as lazy, unattractive, unintelligent, dishonest, and unsuccessful. These negative attitudes and beliefs have serious implications for nutrition counseling and education interventions. Clinical treatment and health outcomes for overweight and obese individuals treated by biased health professionals can be compromised.¹¹⁵ Individuals who feel stigmatized by **weight bias** are more likely to experience psychological issues including depression, lower self-esteem, anxiety, body dissatisfaction, and suicide.¹¹⁶ As a result, they are less likely to feel motivated to make healthy lifestyle behavior changes and may be more likely to eat poor quality food and shun physical activity.¹¹⁷

Intervention Essentials

- **Use sensitive language.** Using hurtful language to describe your client's condition can set an intervention off to a bad start. Research indicates the terms "weight," "excess weight," or "body mass index" are viewed more favorably than "large size," "weight problem," or "unhealthy body weight."¹¹⁸ If you are unclear about the proper terminology, ask your clients for their preference.
- **Incorporate Motivational Interviewing approaches.**¹¹⁹ As discussed in Chapters 2, 3, and 4, use open-ended, nonjudgmental questions such as the following:
 - ❑ How ready do you feel about changing your eating patterns and lifestyle behaviors?
 - ❑ How is your current weight affecting your life at this time?
 - ❑ What have you done in the past to change your eating?

- ❑ What strategies have worked for you previously?
- ❑ On a scale from 1 to 10 (with 1 being not ready to change and 10 being ready right now), what number would represent your readiness to make changes in your eating patterns?
- **Provide bias-free care.** Too often clients feel shame, experience **prejudice**, and believe they are stigmatized by their interactions with health care professionals. Overweight and obesity are the result of a number of behavioral, environmental, physical, genetic, social, and public policy factors. Placing blame on the individual is not fair and not conducive to a successful intervention. Your approach, body language, and expressions will reflect negative bias and will not encourage a successful outcome. No one wants to work with a disapproving health care practitioner.
- **Set specific, realistic, and measurable goals.** Goals do not always need to be a number on a scale. Weight change should be viewed as a long-term outcome. As discussed in Chapter 5, short-term measurable behavioral goals, such as eating breakfast foods or engaging in physical activity, are more likely to lead to successful interventions. Also, better health outcomes can be measured in addition to weight or instead of weight, such as waist circumference, blood pressure, blood sugar control, or cholesterol readings.
- **Discuss benefits of modest weight loss.** Health benefits are likely to occur with even a 5 or 10 percent reduction in weight. This is one reason to focus on additional parameters for assessing an intervention rather than weight. A healthier lifestyle can provide observable outcomes that can be motivational to the client.
- **Update skills.** There are a number of professional publications, continuing education programs, and website resources for professionals.

Exercise 9.5 Explore Weight Bias

- ❑ Go to the Yale Rudd Center for Food Policy and Obesity at http://www.yaleruddcenter.org/resources/bias_toolkit/index.html. Complete modules 1, 2, and 3 under "Preventing Weight Bias: Helping Without Harming in Clinical Practice."
- ❑ Give one reaction to each of the modules and explain how this information will be useful in your future nutrition counseling or education interventions.

9.12 Individuals with Disabilities

After signing the Americans with Disabilities Act in the White House Rose Garden in 1990, President George Bush handed the pen to Harold Wilke, a minister, who deftly accepted it with his toes.¹²⁰ Reverend Wilke, who is armless, offered the following words: “From ancient times to today we celebrate the breaking of the chains holding your people in bondage ... new access to the Promised Land of work, play and service.” Since the passage of the Disabilities Act, policies have been shifting to an emphasis on inclusion, independence, and empowerment for people with disabilities. For example, in 2015 the Academy of Nutrition and Dietetics issued a position statement regarding providing nutrition services for people with developmental disabilities and special health care needs.¹²¹

There is a high probability that you will encounter people with disabilities in your nutrition practice because, according to the U.S. Census Bureau, approximately 27 percent of Americans have a disability.¹²² Nutrition professionals have expertise that is relevant for this population group. People with disabilities may have an increased risk of certain conditions, such as weight gain or opportunistic infections, due to decreased mobility or side effects of medications. To provide the most accessible assistance, consideration needs to be given to arranging the physical environment to allow safe and free movement. Also, you should explore availability of resources, such as speech augmentation devices.

To provide engaging and effective interventions, nutrition professionals need to be familiar with communication essentials when working with individuals who have disabilities.¹²³ Finding appropriate terminology to describe disability conditions or people who have the disability can be a challenge if you have limited experience with the conditions. You do not want to use terminology that is demeaning, and you want your interactions to be respectful and uplifting. As Eileen Quann stated in her book *By His Side: Life and Love After Stroke*, labels should be used to describe a condition but not define the person.¹²⁴ She grew to understand this after her husband’s catastrophic stroke left him with a variety of physical and communication limitations. This emphasizes the importance of cultural encounters, one of the constructs of the Campinha-Bacote Cultural Competence Model. Mary J. Yerkes of the Illness-Disability-Healthcare-Caregiver Ministry Network encourages individuals not to hold back from interactions with people who have disabilities. She states that reluctance to interact with individuals with disabilities is one of the biggest hindrances people with disabilities face in the workplace.¹²⁵

Realize that words have power. In general, you should use person-first language, putting emphasis on the individual rather than the condition.¹²⁵ Referring to an individual as a *diabetic*, a *paraplegic*, or a *disabled person* defines the person by the condition or disability. This is dehumanizing. People do not want to be defined by any single characteristic, including their disability. However, there are exceptions to this rule. There are those who feel deafness and autism are traits and not conditions that need a cure. For those who have this frame of mind, using the terms *deaf people* and *autistics* are acceptable.¹²⁶ If in doubt, ask what terminology your clients prefer. Table 9.15 provides a guide for appropriate behavior and language to use when interacting with people who have disabilities. The sections following this table highlight selected factors regarding interactions with people who have disabilities.

Mobility Impairment

Often people with mobility impairment have assistance devices such as wheelchairs or artificial limbs. These apparatus should be treated as if they are part of an individual’s body. Leaning on a wheelchair or resting your feet on the footrest is not appropriate. When conversing with a person who is at a much lower level, be sure to place yourself at his or her eye level. Having to keep looking up hinders communication and can cause neck difficulties. Any act of assistance should be given only after a person has indicated that the help would be appreciated. Not only is this respectful, but your aid may in fact hinder his or her balance. If shaking hands is a standard practice in the setting in which you are working, do not hesitate to shake hands with an underdeveloped or artificial limb.

Visual Impairment

There are various degrees of visual impairment. As people age, often their ability to see boundaries is reduced. For example, seeing a white plate on a white table cloth or the end of a white step and the beginning of a white wall may be a challenge. Make sure there are clear contrasts to define boundaries when working with people who have reduced visual acuity. Be sure to identify yourself when meeting someone who is visually impaired. Sometimes when talking to a person who is blind, there is concern about using some common expressions, such as, “See you later.” If you happen to use such an expression, you should not feel a need to apologize. People who are blind often use such terminology themselves.¹²⁷

Deaf or Hard of Hearing

Use a tap on the shoulder or a wave to capture the attention of a person who is deaf. For individuals who read lips, be sure to face the light source, keep hands away

Table 9.15 Disabilities Etiquette 101

Disability	What You Need to Know	Interacting With People With Disabilities	Talking to or Writing About People With Disabilities
People who use wheelchairs or have mobility impairments	People with mobility impairments have varying abilities. Some can get out of their wheelchair, walk for short distances, and use their arms and hands. Others “look fine” but experience ambulatory difficulties when their symptoms flare or they grow fatigued.	<ul style="list-style-type: none"> • Don’t push, touch, or lean on the person’s wheelchair. • Consider physical obstacles (curbs, stairs, hills) when giving directions. • Keep halls, corridors, and aisles clear. • Ask before you help. • Offer to shake hands, usually possible for those with limited hand use or artificial limb. • Don’t make assumptions. • Keep floors dry and slip free. Use rubber mats to prevent falls. • Position yourself at eye level when talking to a person in a wheelchair. • Don’t grab someone’s arm, even to help. Some people with mobility impairments use their arms for balance. • Position computers, telephones, and equipment within a wheelchair user’s reach. • Provide assistive or adaptive devices, such as mouth sticks, head wands, oversized trackball mouse, adaptive keyboards, voice recognition software, or eye-tracking devices. 	<p>Outdated language:</p> <ul style="list-style-type: none"> • Handicapped • Crippled • Lame • Confined to a wheelchair • Wheelchair bound • The disabled <p>Current language:</p> <ul style="list-style-type: none"> • Wheelchair user • Person who uses a wheelchair • Person who walks with crutches • Person with limited mobility • Person with disabilities
People who are blind, visually impaired, or partially sighted	People with visual impairments are generally able to live independently, travel, maintain a career, read and write, lead an active social life, and more. Not all people who are visually impaired use canes or guide dogs. Some use auditory or tactile cues or echolocation to navigate their environment.	<ul style="list-style-type: none"> • Identify yourself and others with you. • Never touch a person’s cane or guide dog. • When walking alongside someone with a visual impairment, note obstacles, such as stairs, revolving doors, hanging plants, and so forth. • Describe the location of objects. (There is a desk four feet in front of you at two o’clock.) • Excuse yourself before leaving a person who is blind. Leave him near a desk, chair, or other landmark. • Offer to read written information, such as menus, instructions, or agreements. • Provide magnification devices or writing guides for computer screens. • Use accessibility guidelines when designing your website. • Consider speech recognition software, smartphones, and low-vision, adaptive devices for people with visual impairments. 	<p>Outdated language:</p> <ul style="list-style-type: none"> • The blind • Afflicted <p>Current language:</p> <ul style="list-style-type: none"> • Person who is blind • Person who is visually impaired • Person with low vision <p>In general:</p> <ul style="list-style-type: none"> • Understand that “visually impaired” is the generic term to refer to all types of vision loss. Avoid other generic labels. • Contact the National Federation of the Blind (www.nfb.org) for more information.

(continued)

Table 9.15 Disabilities Etiquette 101 (continued)

Disability	What You Need to Know	Interacting With People With Disabilities	Talking to or Writing About People With Disabilities
People who are deaf or hard of hearing	People who are deaf or hard of hearing have a range of communication preferences and styles. Not everyone who is deaf or hard of hearing uses American Sign Language (ASL). ASL is a visual language that is completely different from English. If ASL is a deaf person's first language, lip reading can be difficult. However, people who are hard of hearing or late-deafened adults communicate in English and often use amplification or assistive devices, along with lip reading, to communicate.	<ul style="list-style-type: none"> • If appropriate, use a qualified sign-language interpreter for complex exchanges of information, such as a job interview. • Speak directly to the person who is deaf, not the interpreter. • Look directly at the person when speaking. Use simple, easy-to-understand sentences. • Avoid smoking, chewing gum, or obscuring your mouth. • Speak clearly. Some people who are hard of hearing watch people's lips as they speak. • Use meaningful facial expressions and gestures. • Gain the person's attention before speaking. Gently wave your hand or tap the person on the shoulder or arm. • Rephrase, rather than repeat, words, phrases, or sentences the person doesn't understand. • People who are deaf or hard of hearing make and receive telephone calls with a TTY (a teletypewriter). If you don't have a TTY, dial 711 to reach the national telecommunications relay service. They can facilitate a telephone call between you and an individual who uses a TTY. • When working in a group, ask people who are deaf or hard of hearing how they prefer to communicate (sign language interpreter, read lips, write back and forth, and so forth). 	<p>Outdated language:</p> <ul style="list-style-type: none"> • Deaf mute • Deaf and dumb <p>Current language:</p> <ul style="list-style-type: none"> • Person who is deaf/profoundly deaf (no hearing capability) • Person who is hearing impaired (some hearing capability) • Person who is prelingual (deaf at birth) • Person who is postlingual (deaf after birth) <p>In general:</p> <ul style="list-style-type: none"> • Understand that "hearing impaired" and "hearing loss" are generic terms sometimes used to refer to all degrees of hearing loss. However, some people object to the terms and prefer terms such as "deaf" or "hard of hearing." • Contact the National Association of the Deaf (www.nad.org) for more information.
People with speech disabilities	A person who is hearing impaired, has had a stroke, or has cerebral palsy may have a speech impairment or disability. Some choose to communicate in sign language or writing, while others use their voice or use assistive technology.	<ul style="list-style-type: none"> • Don't assume a person with a speech disability has a cognitive impairment. • Try to find a quiet environment in which to communicate. • Give the person your complete attention. Never interrupt or pretend to understand when you do not. • Be patient. Never finish a person's sentences for him. • When possible, ask questions that require short answers. • Repeat for verification if you are not sure you understand. 	<p>Outdated language:</p> <ul style="list-style-type: none"> • Deaf and dumb • Dumb • A mute <p>Current language:</p> <ul style="list-style-type: none"> • Person with a speech impediment • Person with a speech disability • Person who is unable to speak • Person who uses synthetic speech

(continued)

Table 9.15 Disabilities Etiquette 101 (continued)

Disability	What You Need to Know	Interacting With People With Disabilities	Talking to or Writing About People With Disabilities
		<ul style="list-style-type: none"> • If repeated attempts to understand the person fail, find another method to communicate. For example, ask him to write down what he is saying. • If you have difficulty understanding someone on the telephone, use a speech-to-speech relay service. • If a person uses a communication device, make sure it is within easy reach. • If a person uses an interpreter or attendant, look directly at the person who is speaking, not the attendant. 	<p>In general:</p> <ul style="list-style-type: none"> • Avoid negative attitudes and connotations. • Never tease or laugh at a person with a speech impairment.
People with invisible (hidden) disabilities	<p>According to the U.S. Census Bureau, 24 million people in the United States have a severe disability, yet separate research from the University of California reports that only 6.8 million people used a visible assistive device. Thus, a disability cannot be determined solely on whether a person uses visible assistive equipment. If a person makes a request or acts in a way that seems strange to you, such as standing during a meeting while others are sitting, understand that the behavior may be disability related. This person may be in pain, fatigued from a condition like rheumatoid arthritis, lupus, or multiple sclerosis, or may be feeling the effects of medication. Medications taken for conditions such as these are potent and often have undesirable side effects.</p>	<ul style="list-style-type: none"> • Realize physical appearances can be deceiving. It is possible to “look good” but still have a serious illness. • Understand pain and fatigue, common symptoms with invisible disabilities, may limit a person’s ability to walk, sit, or stand for long periods. • Recognize people with hidden disabilities may manage their condition through medication and self-management (limiting stress, alternating demanding activities with periods of rest, self-pacing). Good self-management may prevent disease progression. • Understand that simple tasks, such as shaking hands, pouring coffee, and walking up and down steps, may be painful for a person with an invisible disability. Be sensitive and respond positively to requests for help. • Work with the individual to modify tasks. She or he is an “expert” in what works and what doesn’t. • Recognize physical symptoms and limitations may change based on fluctuations in the disease process. • Understand changes in medication often result in changes in health. • Understand someone with a hidden disability may be physically unable to participate in social activities and events, such as dancing, golfing, or other activities. • Know that people with invisible disabilities often require more rest, which makes late nights difficult. 	<p>Outdated language:</p> <ul style="list-style-type: none"> • The disabled • Deformed • Victim] • “Suffers with...” • “Overcame” his disability • Admits she has a disability <p>Current language:</p> <ul style="list-style-type: none"> • Person who has multiple sclerosis (or muscular dystrophy, rheumatoid arthritis, cerebral palsy, and so forth) • Person with a disability • Person with invisible chronic illness • Successful, productive • Says she has a disability <p>In general:</p> <ul style="list-style-type: none"> • Avoid condescending euphemisms, such as “physically inconvenienced” or “physically challenged.” Instead, say “woman with rheumatoid arthritis” or “man with multiple sclerosis.” • Avoid saying, “But you look so good.” Although meant as a compliment, it implies, “If you had a real disability, it would show.”

(continued)

Table 9.15 Disabilities Etiquette 101 (*continued*)

Disability	What You Need to Know	Interacting With People With Disabilities	Talking to or Writing About People With Disabilities
		<ul style="list-style-type: none"> Know that people with invisible disabilities may require special accommodations under the Americans with Disabilities Act, such as limited travel, flexible work hours, workstation modification or placement, or telecommuting. Contrary to popular opinion, most accommodations are not expensive. 	
In General <ul style="list-style-type: none"> Avoid negative, disempowering words such as “victim.” Instead, use empowering, “people first” language. Don’t use trendy terms, such as “differently abled.” Omit stereotypes. People with disabilities are not “brave,” “courageous,” or “heroic” for working, using public transportation, or traveling to an event. Avoid pity. Don’t be embarrassed if you happen to use a common expression, such as “See you later” or “Did you hear about this?” that seem to relate to a person’s disability. Contact The National Organization on Disability (www.nod.org) for more information. 			

Source: Adapted from ASAE & The Center, Washington, D.C., <http://www.asaecenter.org>. Contributed by Mary J. Yerkes, communications manager and staff writer for NACHA—The Electronic Payments Association.

from the face, and speak clearly. Do not raise your voice. Shouting can distort the message. If you have the assistance of a sign language interpreter, be sure to look at your client rather than the interpreter.

Speech Disabilities

There are various reasons for reduced ability to use language, such as hearing impairment, cerebral palsy, or **aphasia**. We will concentrate on aphasia because it is a complex speech condition and the communication guidelines are often transferable to individuals who have speech difficulties for other reasons.

Aphasia is a disorder that impairs the expression and understanding of language, as well as reading and writing, but not intelligence. Aphasia can occur suddenly, from a stroke or head injury, or can develop slowly due to a brain tumor, infection, or dementia. About 23 to 40 percent of people who have strokes develop aphasia.¹²⁸ Hypertension is the most common cause of a stroke. There are a number of dietary measures that can be taken to lower blood pressure, allowing nutrition professionals to provide meaningful interventions to decrease the risk of a first or second stroke. Because of language issues, family members often need to be included in nutrition interventions. However, the client should not be overlooked during consultations. Usually a speech-language

pathologist will do an evaluation and can give guidance regarding communication possibilities, such as picture cards, hand gestures, or word cards. Your facility may have electronic or computer-assisted augmentation devices that can be used to assist communication. The following are some communication tips for interacting with individuals with aphasia:

- Make sure you have the individual’s attention.
- Minimize background noise.
- Speak to the person as an adult, not a child.
- Permit a reasonable amount of time to respond.
- Simplify sentence structure and rate of speaking.
- Focus on one message at a time.
- Do not attempt to finish patient statements.
- Do not turn conversation into therapy by correcting the patient.
- Try to involve the patient in decision making.
- Augment your speech with gestures and visual aids.
- Consider using yes or no questions or thumbs up or down.

Invisible Disabilities

Some disabilities are not readily apparent but do impair normal daily activity. Diverse conditions may fall into this category, such as mental health issues, autism spectrum disorders, fibromyalgia, dexterity difficulties, or

chronic conditions that cause disabling pain or fatigue. Sometimes a medication that a person needs to take may cause side effects that result in confusing behavior, such as standing or the need to walk when others are sitting.

If you have clients behaving in a way you find confusing, inquire in a curious manner as to the reason for the behavior. Ask if there is something you can do to provide additional comfort for their situation.

CASE STUDY 9.1 Counseling in a WIC Program

You are working as a nutrition counselor for a WIC program. Carmen, a 16-year-old high school sophomore, is three months pregnant and was referred to the WIC office during her recent prenatal visit at a local health clinic. Carmen immigrated to the United States with her family from Mexico when she was 5 years old. Presently, she lives in an apartment with her sister, brother, grandmother, mother, and father. After school, she works at a fast-food establishment three days a week, including Saturday. Carmen brought a referral form from the clinic, which contains the following information:

- Height: 5 feet
- Prenatal weight: 100 pounds
- Present weight: 101 pounds
- Hemoglobin: 10 mg/dL (normal 12–16 mg/dL)
- Hematocrit: 33% (normal 36–48%)
- Symptoms: Vomiting in the morning, and usually nauseated through late morning
- Diagnosis: Iron deficiency anemia

A review of Carmen's usual diet indicates the following:

Breakfast: One cup of coffee, Mexican soup (noodles with a little chicken), fried tortilla or Mexican muffin

Lunch (school days): Soda, chips or French fries, pizza or cheeseburger

Dinner and Lunch (working days): Soda, fried chicken or cheeseburger, French fries

Dinner (at home): Lemonade, beans and rice or enchilada with hot sauce, bunuelos (deep fried cake)

Nighttime snack at home: One glass of milk and cookies

Food with friends: Soda, fast foods, tortilla chips

Carmen is looking forward to the birth of her baby. She said she would like advice to alleviate nausea.

CASE STUDY 9.2 Activities

Explore MyPlate.gov website. Go to My Plate Plan for Moms.

1. Complete a food plan for Carmen.
2. What food groups are not adequate in Carmen's diet?

Explore WIC

3. Go to Works Resource System (WWRS), an online education and training center for health and nutrition professionals serving in the Special Supplemental Nutrition Program for Women, Infants and Children Program at <https://wicworks.fns.usda.gov/explore-resources> and explore the site. Explain two things you learned that would be helpful for a counselor working with Carmen.
4. Review the WIC Fact Sheet at <https://fns-prod.azureedge.net/sites/default/files/wic/wic-fact-sheet.pdf>. How will foods received through WIC affect Carmen's nutritional status?

Explore iron deficiency anemia and nausea

Go to the March of Dimes website (<http://www.marchofdimes.com/>) and search for anemia and nausea and answer the following questions:

5. Identify two complications for pregnant women who have iron deficiency.
6. What are four common symptoms of iron deficiency?

(continued)

CASE STUDY 9.2 Activities (continued)

7. What are the side effects of taking iron supplements?
8. Give two examples each of animal and plant sources of iron.
9. What can you tell Carmen about her deficiency that would encourage her to take the iron supplements?
10. What advice can you give Carmen about her nausea?

Counseling Approach

11. Make up four open-ended questions reflecting the spirit of motivational interviewing that would be appropriate for a counseling session with Carmen.
12. Describe one behavioral approach and explain why it could be useful when working with Carmen.

Explore Mexican Foods

Use the Internet or other sources to investigate Mexican foods.

13. Describe two commonly consumed foods in the Mexican culture and how they influence nutritional status.

KEY TERMS

Alternative medicine: used instead of conventional medicine.

Aphasia: an impairment of any language modality.

Complementary Interventions: used together with conventional treatments.

Cultural Competence: a set of knowledge and interpersonal skills that allows individuals to increase their understanding and appreciation of cultural differences and similarities.

Cultural Groups: nonexclusive groups that have a set of values in common; an individual may be part of several cultural groups at the same time.

Culture: learned patterns of thinking, feeling, and behaving that are shared by a group of people.

Disability: an umbrella term, covering impairments, activity limitations, and participation restrictions.

Discrimination: behavior that treats people unequally because of their group memberships.

Eating Disorders: a group of conditions characterized by abnormal eating habits.

Ethnicity: membership in a national or tribal group.

Ethnocentric: believing a particular cultural view is best and devaluing alternative views.

Functional Medicine: addresses the underlying causes of disease

Health Disparities: population-specific differences in the presence of disease, health outcomes, or access to health care.

Immigrants: individuals who move to a new country seeking permanent residence.

Interpreter: a person who transfers the meaning of one spoken language to another one.

LGBTQ: people who are lesbian, gay, bisexual, transgender, or queer.

Multicultural: coexisting cultures that interrelate and influence one another.

Natal Sex: sex identity assigned to individuals at birth.

Prejudice: a biased opinion, preconception, or attitude about a group or its individual members.

Race: a category of population based on physical characteristics and shared ancestry.

Respondent-Driven Interview Questions: open-ended questions encouraging clients to express their understanding and concerns regarding their health concern.

Stereotype: an exaggerated belief, image, or distorted truth about a person or group.

Weight Bias: discriminatory actions and attitudes toward individuals who are overweight.

REVIEW QUESTIONS

1. Explain five reasons health care professionals should strive for cultural competence.
2. Compare and contrast the LEARN Guideline and the 4 Cs Guideline for nutrition interventions.
3. What is the pivotal construct of Campinha-Bacote's Model?
4. What is the highest level of cultural competence in the Cultural Competence Continuum?
5. Name two determinants of food behavior for pre-school children, middle childhood, adolescents, and older adults.

6. Name two developmental factors of preschool children, middle childhood, adolescents, and older adults.
7. Identify a nutritional risk for each of the following age groups: preschool children, middle childhood, adolescents, and older adults.
8. Identify an appropriate intervention strategy for preschool children, middle childhood, adolescents, and older adults.
9. Describe three ways a health facility can make the environment welcoming for LGBTQ people.
10. Describe three main types of eating disorders.
11. Why should health care professionals strive to use the services of a trained medical interpreter when interpretation is needed?
12. Explain the importance of using person-first language when referring to someone with a disability.
13. What is the most common cause of aphasia?
14. Give one communication tip for working with individuals for each of the following disability categories: use a wheelchair, are deaf, are blind, have speech difficulties, or have hidden disabilities.

Case Study Answers

1 = Fruits, vegetables, dairy, and possibly protein (meat/beans); 3 = supply missing food groups; 4 = preterm birth and low birth weight; 5 = fatigue, weakness, dizziness, headache, numbness or coldness in your hands and feet, low body temperature, pale skin, rapid or irregular heartbeat, shortness of breath, chest pain, irritability, poor work or academic performance; 6 = heartburn, constipation, or nausea; 7 = poultry (dark meat), dried fruits (apricots, prunes, figs, raisins, dates), iron-fortified cereals, breads and pastas, oatmeal, whole grains, blackstrap molasses, liver and other meats, seafood, spinach, broccoli, kale and other dark green leafy vegetables, baked potato with skin, beans and peas, nuts and seeds.

ASSIGNMENT Conducting an Interview Across Cultures

Locate someone who is from a culture substantially different from your own. The person should be willing to talk to you about a health problem he or she is experiencing or has experienced or be able to describe the health care practices of a particular individual from his or her culture who suffered an illness. For many students this is a fun assignment. They have an

opportunity to explore a culture of a friend, neighbor, or coworker and the experience encourages a deeper connection with a loved one or associate. Usually when students are planning this assignment, racial and ethnic groups come to mind first. Consider all societal groups such as religious, age, disability, weight, sexual orientation, or gender identity. The question guide that follows is written as if you are interviewing an ethnic or racial group. Our students have been able to easily modify the questions to address other types of cultural groups. The objectives of this assignment are to work on developing counseling skills, to gather information, and to learn something about the person's health care beliefs and practices. The intention is not to resolve the health difficulty. The person you interview may find some benefit by clarifying his or her problem through the discussions; however, he or she should not be led to believe that there will be an intervention. Therefore, only the involving phase, part of the exploration-education phase, and the closing phase of the cross-cultural counseling algorithm will be addressed in this assignment. Consider audio- or videotaping this experience for later evaluation.

PART I. Use the following interview guide/checklist to conduct the interview. Examples of possible counselor questions, statements, and responses are given in italics. Note that these are given as a guide for you to envision the flow of the interview. You do not need to ask each question as it is written. They can be modified to fit your communication style and comfort.

Preparation

- To prepare for the interview, select and read two references about the cultural group your volunteer represents. Review the relationship building responses in Chapter 2, Table 9.6 Culturally Sensitive Open-Ended Questions to Encourage a Response-Driven Interview, Figure 9.4 Cross-Cultural Nutrition Counseling Algorithm, and the section titled Guidelines for Delivering Cross Cultural Interviews and Interventions found in this chapter.
- Bring two copies of Lifestyle Management Form 5.7 Student Nutrition Interview Agreement found in Appendix C.
- Bring a completed Certificate of Appreciation.

Involving Phase

- Greeting
 - Verbal greeting—*I am happy to meet you.*
 - Shake hands.

— Introduce self—*My name is Mary Smith. How should I address you?*

- ❑ Small talk, if appropriate
- ❑ Thank volunteer—*Thank you for participating in this interview.*
- ❑ Explain purpose of the interview—*This is a project I am required to do for my nutrition counseling class. The purpose of this interview is for me to work on my counseling skills, gather information about your health concern, and learn something about your culture, particularly how it relates to health care.*
- ❑ Review the consent form (Lifestyle Management Form 5.7 in Appendix C) with your volunteer. Follow the procedure for obtaining consent in preparation for Session 1 of Chapter 14 in this text. You and your client should sign both a client copy and a clinic copy of the form. Give the client copy to your volunteer.

Transition to Exploration Phase

- ❑ Transition statement—*Do you have any questions before we go over the interview questions?*

Exploration Phase As you go through the interview questions, you will have to make a judgment regarding which ones are appropriate for your particular client. Do not ask a question if you believe it will provide repetitive information. Once you have a name for the health issue, use the actual name rather than the word *illness* or *sickness* in the question examples.

- ❑ Ask your client to describe himself or herself (age, cultural group, occupation, interests).

Cause of Illness

- ❑ Explain desire to learn about your volunteer's culture—*As we go through the questions, if there is anything you think I am missing about your health problem or treatment as it relates to your culture, please let me know.*
- ❑ *What do you believe is wrong? Is there a name given to this condition in your culture?*
- ❑ *What do you feel may be causing your problem? Do you and your doctor agree about the cause?*
- ❑ *Why do you believe the problem started when it did?*
- ❑ Briefly summarize your client's perception of the cause of his or her illness to check for understanding—*From what you said, it appears that your elevated blood pressure is caused by too much blood and is the result of your fate in life and because of your family history.*

Your mother and father also had high blood pressure. Your family calls the problem "high blood."

- ❑ Make a reflective statement, if appropriate.

Process of Illness

- ❑ *What does the sickness do to your body?*
- ❑ *Do you have any idea when (whether) the problem will get better?*
- ❑ *What do you fear about your sickness?*
- ❑ *What problems has your sickness caused for you personally? For your family? At work?*
- ❑ Briefly summarize your client's perception of how the illness is affecting him or her—*Let me make sure I understood you correctly. You feel that the blood pressure problem will always be with you. You are feeling good now, but both your mother and father had a stroke, and you worry that might happen to you.*
- ❑ Make a reflective statement—*Although you are feeling somewhat fearful of the future. (If confirmed, then use a legitimization statement.) Considering what happened to your mother and father, it is understandable that you would feel that way.*

Treatment of Illness

- ❑ *What kind of treatments will work for your sickness? Have you been using them? What results do you expect from the treatments?*
- ❑ *Are there home remedies for this sickness? Have you used them?*
- ❑ Briefly summarize what you understand about the volunteer's treatment—*It is interesting that some of your relatives have found help from staying away from "rich" foods and trying to eat more acidic foods. But you feel more comfortable trying to do what your doctor says is best and by taking your pills.*

Healers and Future

- ❑ *Are there any benefits to having this illness?*
- ❑ *Is there anyone in your family who helps make decisions about what you should be doing to treat your sickness?*
- ❑ *Are there any healers in your culture who could treat this problem? Have you used any of their treatments?*
- ❑ Make an appropriate reflective or summarization response—*Prayer is important to you. So much is being written about prayer and healing today.*

Foods and Illness

- ❑ *Can what you eat help cure your sickness or would it make it worse?*
- ❑ *Do you eat certain foods to keep you healthy? To make you strong?*
- ❑ *Do you avoid certain foods to prevent sickness?*
- ❑ *Do you balance eating some foods with other foods?*
- ❑ *Are there foods you won't eat? Why?*
- ❑ *How often do you eat your ethnic foods?*
- ❑ *What kinds of foods have you been eating?*
- ❑ Make an appropriate reflective or summarization response—*You are lucky you have such a supportive wife who is trying to help you eat more fruits and vegetables.*

Explore Culture and Illness—General

- ❑ Explain that you would like to learn about your volunteer's views on illness, healing, and food—*We have been focusing on your particular illness and culture. I am wondering whether people from your culture have other views about illness, healing, or food and health that are different than what is generally accepted by health authorities in this country. If so, can you tell me about them? Do you know anyone who has used those methods?*

Closing Phase

- ❑ Express appreciation—*Thank you very much for letting me talk to you about your blood pressure and how you are treating the problem. I learned a great deal.*
- ❑ Use a relationship-building response (respect)—*I am very impressed with all you know about your blood pressure problem and the steps you have taken to control it.*
- ❑ Express hope for the future—*I hope you have continued success with controlling your blood pressure.*
- ❑ Shake hands.
- ❑ Give a certificate of appreciation—*As a show of gratitude for your willingness to participate in this project, I have a certificate of appreciation to give to you from the director of the project and me.*

PART II. Answer the following questions in a formal typed report or in your journal. For formal reports, number each question and put the answers in complete sentences under the question.

1. Record the name of the person interviewed and location, time, and date of the meeting.
2. Describe the person you interviewed—age, cultural group, gender, and occupation.

3. Write a narration of the experience. There should be four titled sections in the narration: preparation, opening phase, exploration-education phase, and closing phase. Summarize what occurred in each phase.
4. Write each question in sequence, and give your volunteer's response to the question. Indicate if you did not use the question.
5. Explain the use of relationship building responses and summarizations. What do you believe was the effect of using these responses? Were you comfortable using them?
6. Explain how you believe this person's cultural orientation affects his or her perception and treatment of the illness.
7. Complete an Interview Assessment Form, Lifestyle Management Form 7.6 in Appendix C—omit Resolving Phase.
8. How useful were the respondent-driven interview questions for interviewing someone from a culture different than your own? Explain your answer.
9. Give at least two quotes (cite the reference) from your readings and describe how your volunteer did or did not represent what your readings described about people from his or her culture.
10. Describe three attributes about the culture you investigated different than your own.
11. Identify and explain two things you learned from this experience.

ADDITIONAL RESOURCES

<https://nccc.georgetown.edu/> National Center for Cultural Competence, provides a variety of educational and curriculum resources.

<http://www.minorityhealth.hhs.gov/templates/browse.aspx?lvl=2&lvlid=15> Office of Minority Health Resource Center, provides population profiles.

<https://cccm.thinkculturalhealth.hhs.gov/> The Guide to Providing Effective Communication and Language Assistance Services, an online program containing practical strategies and resources that you can use in addressing communication and language needs; free to all health care practitioners; developed by the Office of Minority Health.

<http://www.yaleruddcenter.org> Provides videos, publications, and education resources about weight bias and stigma.

Children and Adolescent Resources

www.actionforhealthykids.org

Action for Healthy Kids is a national-state initiative to reduce obesity and improve nutrition and physical activity in schools; provides a variety of resources for school-based change.

www.aedweb.org Academy for Eating Disorders, provides links to a variety of resources.

<https://www.recoveryrecord.com/> Recovery Record is a smart eating disorder recovery app that has been evaluated in clinical trials and can be connected with a treatment team.

<https://www.choosemyplate.gov/children> Provides recipes, videos, advice, and activities to encourage healthy eating.

<https://eatrightfoundation.org> Resources for families and professionals on eating right, cooking healthy, and shopping smart, with tips, recipes, and videos.

Older Adult Resources

<http://www.mna-elderly.com> Official Mini Nutritional Assessment (MNA) Website, includes downloadable form, user guide, and training video.

<https://www.nia.nih.gov> National Institute on Aging

Disability Websites

<http://codi.tamucc.edu/> Cornucopia of Disability, provides disability information in a wide variety of areas.

www.nia.nih.gov/alzheimers Alzheimer's Disease Education and Referral Center

LGBTQ Community

https://www.jointcommission.org/topics/health_equity.aspx Advancing Effective Communication, Cultural Competence, and Patient- and Family-Centered Care for the Lesbian, Gay, Bisexual, and Transgender (LGBT) Community, A Field Guide. A guide for creating a more welcoming, safe, and inclusive environment that contributes to improved health care quality for lesbian, gay, bisexual, and transgender (LGBT) patients and their families; developed by The Joint Commission.

www.glma.org Health Professionals Advancing LGBT Equality offers a free online three-part webinar series; the slides from the presentations can also be downloaded.

Books

Drago, L., Goody, C. M. Diabetes Care and Education Dietetic Practice Group. *Cultural Food Practices*. Chicago: American Dietetic Association, 2009. Provides culturally appropriate counseling recommendation, practical information for fifteen cultures, and client education handouts.

Fadiman, A. *The Spirit Catches You and You Fall Down*. New York: Farrar, Straus & Giroux, 1998.

Kittler, P. G., Sucher, K. P., Nahikian-Nelms, M. *Food and Culture*. 7th ed. Boston, MA: Cengage Learning, 2017.

REFERENCES

- ¹W. H. Frey, The Brookings Institution. Available at: www.brookings.edu. Accessed July 19, 2019.
- ²J. Batalova and J. Zong, *Language Diversity and English Proficiency in the United States*. Washington, DC: Migration Policy Institute, 2016. Available at <https://www.migrationpolicy.org/article/language-diversity-and-english-proficiency-united-states>. Accessed July 19, 2019.
- ³R. G. Rumbaut and D. S. Massey, Immigration and Language Diversity in the United States. *Daedalus*, 2013; 142:141–154.
- ⁴US Census Bureau, Population Estimates Show Aging Across Race Groups Differs, 2019. Available at: <http://www.census.gov>. Accessed July 19, 2019.
- ⁵B. M. Barnes, B. Bloom, and R. L. Nahin, Complementary and alternative medicine use among adults and children 2007. *National Health Statistics Reports*, 2009; 10:1–24. DOI:10.1037/e623942009-001
- ⁶D. Noland and S. Raj, Academy of Nutrition and Dietetics: Revised 2019 Standards of Practice and Standards of Professional Performance for Registered Dietitian Nutritionists (Competent, Proficient, and Expert) in Nutrition in Integrative and Functional Medicine. *J Acad Nutr Diet*, 2019; 119:1019–1036.
- ⁷D. Dyer, *A Dietitian's Cancer Story: Information and Inspiration for Recovery and Healing from a 3-Time Cancer Survivor*, 13th ed. Ann Arbor, MI: Swan Press, 2010.
- ⁸US Department of Health and Human Services, National Partnership for Action to End Health Disparities. National Stakeholder Strategy for Achieving Health Equity. Available at: <https://minorityhealth.hhs.gov/npa/files/Plans/NSS/CompleteNSS.pdf>. Accessed July 19, 2019.
- ⁹T. A. LaVeist, D. J. Gaskin, and P. Richard, *The Economic Burden of Health Inequalities in the United States*. Washington, DC: Joint Center for Political and Economic Studies, 2009. Available at: <http://jointcenter.org/research/fact-sheet-economic-burden-health-inequalities-united-states>. Accessed July 20, 2019.
- ¹⁰T. A. Waidmann, *Estimating the cost of racial and ethnic health disparities*. Washington, DC: Urban Institute, 2009.
- ¹¹J. O. Hero, A. M. Zaslavsky, and R. J. Blendon. The United States leads other nations in differences by income in perceptions of health and health care. *Health Affairs*, 2017; 36:1032–1040.
- ¹²National Academies of Sciences, Engineering, and Medicine, 2017. *Communities in Action: Pathways to Health Equity*. Washington, DC: The National Academies Press. Available at: <https://doi.org/10.17226/24624>. Accessed July 21, 2019.
- ¹³R. K. Lewis and B. L. Green, Assessing the health attitudes, beliefs, and behaviors of African Americans attending church. *J Community Health*, 2000; 25:211–24.
- ¹⁴R. J. Turner, T. N. Brown, and W. B. Hale, Race, socioeconomic position, and physical health: A descriptive analysis. *J Health Soc Behav.*, 2017; 58:23–36.
- ¹⁵C. Fitzgerald and S. Hurst, Implicit bias in healthcare professionals: a systematic review. *BMC Med Ethics*. 2017.

Available at: <https://bmcomedethics.biomedcentral.com>. Accessed July 20, 2019.

¹⁶Office of Minority Health, Minority Population Profiles. Available at: <https://minorityhealth.hhs.gov/omh/browse.aspx?lvl=2&lvlID=26>. Accessed July 21, 2019.

¹⁷B. M. Altman and A. Bernstein, *Disability and Health in the United States, 2001–2005*. Hyattsville, MD: National Center for Health Statistics, 2008.

¹⁸E. R. Berchick, E. Hood, and J. C. Barnett, Current Population Reports, P60-264, Health Insurance Coverage in the United States: 2017, Washington, DC: U.S. Government Printing Office, 2018.

¹⁹National Partnership for Action to End Health Disparities, Available at: <https://minorityhealth.hhs.gov/npa/templates/browse.aspx?lvl=1&lvlID=11>. Accessed July 21, 2019.

²⁰G. K. Singh and M. Siahpush, Widening rural–urban disparities in life expectancy, U.S., 1969–2009. *Am J Prev Med.*, 46; 19–29, 2014.

²¹J. Kates, U. Ranji, A. Beamesderfer, A. Salganicoff, et al., Health and Access to Care and Coverage for Lesbian, Gay, Bisexual, and Transgender Individuals in the U.S. 2018. Available at: www.kff.org. Accessed June 19, 2019.

²²Commission on Dietetic Registration, Registered Dietitians Demographics, 2019; Available at <https://www.cdrnet.org/certifications/registered-dietitians-demographics>. Accessed July 21, 2019.

²³Bureau of Labor Statistics. Labor Force Statistics from the Current Population Survey, 2019. Available at: <https://www.bls.gov/cps/cpsaat11.htm>. Accessed July 21, 2019.

²⁴*Racial and Ethnic Health Disparities Workforce Diversity*, National Conference of State Legislatures, 2014. Available at: <http://www.ncsl.org/documents/health/Workforcediversity814.pdf>. Accessed July 21, 2019.

²⁵M. Toossi, Projections of the labor force to 2050: a visual essay, *Monthly Labor Review*. Washington DC: U.S. Bureau of Labor Statistics, 2012. Available at: <https://www.bls.gov/opub/mlr/2012/10/art1full.pdf>. Accessed July 21, 2019.

²⁶The Joint Commission, Advancing effective communication, cultural competence, and patient- and family-centered care. Available at: <http://www.jointcommission.org/assets/1/6/roadmapforhospitalsfinalversion727.pdf>. Accessed July 21, 2019.

²⁷U.S. Department of Health and Human Services, OPHS Office of Minority Health. *National Standards for Culturally and Linguistically Appropriate Services in Health Care* 2013, Available at: www.ThinkCulturalHealth.hhs.gov. Accessed July 21, 2019.

²⁸U.S. Department of Health and Human Services, Civil Rights Requirements- A. Title VI of the Civil Rights Act of 1964, 42 U.S.C. 2000d et seq. (“Title VI”) Available at: www.hhs.gov. Accessed July 21, 2019.

²⁹D. P. Andrus, N. J. Siddiqui, and J. P. Purtle, *Patient Protection and Affordable Care Act Of 2010: Advancing Health Equity for Racially and Ethnically Diverse Populations*. Washington, DC: Joint Center for Political and Economic Studies, 2010, Available at: <http://jointcenter.org/research/patient-protection-and-affordable-care-act-2010-advancing-health-equity-racially-and-ethnically-diverse-populations>. Accessed July 22, 2019.

³⁰*Healthy People 2020*. Available at <http://www.healthypeople.gov/2020>. Accessed July 22, 2019.

³¹Academy of Nutrition and Dietetics. Available at: www.eatright.org. Accessed July 22, 2019.

³²Health Resources and Services Administration, Maternal and Child Health Bureau. Available at: <https://www.mchnavigator.org/assessment/>. Accessed July 23, 2019.

³³National Center for Cultural Competence, Available at: <https://nccc.georgetown.edu/assessments/>. Accessed July 23, 2019.

³⁴K. Bauer and Y. Bai, Using a model to design activity-based educational experiences to improve cultural competency among graduate students. *Pharmacy*. 2018, 6(2) DOI. [org/10.3390/pharmacy6020048](https://doi.org/10.3390/pharmacy6020048)

³⁵J. Campinha-Bacote, The Process of Cultural Competence in the Delivery of Healthcare Services. Available at: <http://www.transculturalcare.net/>. Accessed on July 23, 2019

³⁶M. Magnus, What’s your IQ on cross-cultural nutrition counseling? *The Diabetes Educator*, 1996; 96:57–62.

³⁷L. Gardenswartz and A. Rowe, *Managing Diversity in Health Care*. San Francisco: Jossey-Bass, 1998.

³⁸A. Kleinman, L. Eisenberg, and B. Good, Culture, illness, and care: clinical lessons from anthropologic and cross-cultural research. *Ann Intern Med.*, 1978; 88:251–258.

³⁹E. A. Berlin and W. C. Fowkes, A teaching framework for cross-cultural health care. Application in family practice. *West J Med.*, 1983; 139:934–938.

⁴⁰A. Kleinman, Clinical relevance of anthropological and cross-cultural research: concepts and strategies. *Am J Psychiatry*, 1978; 135:427–431.

⁴¹Understanding Cultural Diversity in Healthcare. The 4C’s of Culture. Available at: <http://www.ggalanti.org/the-4cs-of-culture/>. Accessed on July 24, 2019.

⁴²A. Fernandez and Y. Schenker, Time to establish national standards and certification for health care interpreters. *Patient Educ Couns.*, 2010; 78:139–140.

⁴³G. Flores, M. Abreu, C. P. Barone, et al., Patient safety/original research: Errors of medical interpretation and their potential clinical consequences: A comparison of professional versus ad hoc versus no interpreters. *Ann Emerg Med*, 2012; 60:545–553.

⁴⁴A. Fadiman, *The Spirit Catches You and You Fall Down*. New York: Noonday, 1997.

⁴⁵A. Amuta, W. Jacobs, E. Idoko, et al., Influence of the home food environment on children’s fruit and vegetable consumption: A study of rural low-income families. *Health Promot Pract.*, 2015; 16:689–698.

⁴⁶M. Mink, A. Evans, C. G. Moore, et al., Nutritional imbalance endorsed by televised food advertisements. *J Am Diet Assoc.*, 2010; 110:904–910.

⁴⁷R. Cox, H. Skouteris, L. Rutherford, et al., Television viewing, television content, food intake, physical activity and body mass index: A cross-sectional study of preschool children aged 2–6 years. *Health Promot J Austr.*, 2012; 23:58–62.

⁴⁸L. M. Wen, L. A. Baur, C. Rissel, et al., Correlates of body mass index and overweight and obesity of children aged 2 years: Findings from the healthy beginnings trial. *Obesity*, 2014; 22:1723–1730.

⁴⁹A. R. McAlister and T. B. Cornwell, Children’s brand symbolism understanding: Links to theory of mind and executive functioning. *J Psych Market.*, 2010; 27:203–228.

⁵⁰L. L. Birch, L. McPhee, L. Steinberg, et al., Conditioned flavor preferences in young children. *Physiol Behav.*, 1990; 47:501–505.

⁵¹L. Cooke, The importance of exposure for healthy eating in childhood: A review. *J Human Nutr Diet.*, 2007; 4:294–301.

⁵²P. Rozin and D. Schiller, The nature and acquisition of a preference for chili pepper by humans. *Motivation and Emotion*, 1980; 4:77–101.

- ⁵³G. L. Mitchell, C. Farrow, E. Haycraft, and C. Meyer, Parental influences on children's eating behaviour and characteristics of successful parent-focussed interventions. *Appetite*, 2013;60:85–94.
- ⁵⁴J. Piaget and B. Inhelder, *The Psychology of the Child*. New York: Basic Book, 1977.
- ⁵⁵D. Matheson, K. Spranger, and A. Saxe, Preschool children's perceptions of food and their food experiences. *J Nutr Ed Behav.*, 2002; 34:85–92.
- ⁵⁶T. Fungwe, M. Patricia, P. M. Guenther, et al., The Quality of Children's Diets in 2003–04 as Measured by the Healthy Eating Index-2005 April 2009 Nutrition Insight 43. Available at: <http://www.cnpp.usda.gov/Publications/NutritionInsights/Insight43.pdf>. Accessed July 24, 2019.
- ⁵⁷National Health and Nutrition Examination Survey, What We Eat in America. Available at: <https://www.cdc.gov/nchs/nhanes/wweia.htm>. Accessed July 24, 2019.
- ⁵⁸R. Oza-Frank, M. Zavodny, and S. A. Cunningham, Beverage displacement between elementary and middle school, 2004–2007. *J Acad Nutr Diet.*, 2012; 112:1390–1396.
- ⁵⁹S. K. Herbenick, K. James, J. Milton, et al., Effects of family nutrition and physical activity screening for obesity risk in school-age children. *Pediatric Nursing*, 2018; 23 DOI. org/10.1111/jspn.12229
- ⁶⁰American Academy of Pediatrics, Council on Communications and Media. Media use in school-aged children and adolescents. *Pediatrics*, 2016; 138(5):e20162592.
- ⁶¹American Academy of Pediatrics, Family Media Plan. Available at: <https://www.healthychildren.org/English/family-life/Media/Pages/How-to-Make-a-Family-Media-Use-Plan.aspx>. Accessed July 24, 2019.
- ⁶²B. N. Ogata and D. Hayes, American Academy of Nutrition and Dietetics. Position of the Academy of Nutrition and Dietetics: Nutrition Guidance for Healthy Children Ages 2 to 11 Years. *J Acad Nutr Diet.*, 2014; 114:1257–1276.
- ⁶³V. Rideout, U. G. Foehr, and D. J. Roberts, Generation M²: Media in the lives of 8–18 year-olds. Henry J Kaiser Family Foundation, Available at: <http://kaiserfamilyfoundation.files.wordpress.com/2013/04/8010.pdf> 2010. Accessed July 25, 2019.
- ⁶⁴Committee on Nutrition. *Pediatric Nutrition Handbook*. 6th ed. Elk Grove Village, IL: American Academy of Pediatrics, 2009.
- ⁶⁵E. J. Boyland, S. Nolan, B. Kelly, C. Tudur-Smith, et al., Advertising as a cue to consume: A systematic review and meta-analysis of the effects of acute exposure to unhealthy food and nonalcoholic beverage advertising on intake in children and adults. *Am J Clin Nutr*, 2016; DOI: 10.3945/ajcn.115.120022
- ⁶⁶Trends in Television Food Advertising to Young People: 2016 Update. Available at: <http://uconnruddcenter.org/files/TVAdTrends2017.pdf>. Accessed July 24, 2019.
- ⁶⁷A. C. Neumark-Sztainer, D. P. Hannan, P. Van den Berg, et al., Parental eating behaviors, home food environment and adolescent intakes of fruits, vegetables and dairy foods: Longitudinal findings from Project EAT. *Public Health Nutr.*, 2008; 10:1257–1265.
- ⁶⁸Centers for Disease Control and Prevention. Healthy Schools. Available at: <https://www.cdc.gov/healthyschools/nutrition/schoolnutrition.htm>. Accessed July 25, 2019.
- ⁶⁹Position of the Academy of Nutrition and Dietetics, Society for Nutrition Education and Behavior, and School Nutrition Association: Comprehensive Nutrition Programs and Services in Schools. *J Acad Nutr Diet.*, 2018; 118:913–919.
- ⁷⁰D. M. Hoelscher, S. Kirk, L. Ritchie, et al., Position of the Academy of Nutrition and Dietetics: Interventions for the Prevention and Treatment of Pediatric Overweight and Obesity. *J Acad Nutr Diet.* 2013; 113:1375–1394.
- ⁷¹E. P. Whitlock, E. A. O'Connor, S. B. Williams, et al., Effectiveness of weight management interventions in children: A targeted systematic review for the USPST. *J Pediatrics*, 2010; 125. E396–e418.
- ⁷²J. M. Spahn, R. S. Reeves, K. S. Keim, et al., State of the evidence regarding behavior change theories and strategies in nutrition counseling to facilitate health and food behavior change. *J Am Diet Assoc.* 2010; 110:879–891.
- ⁷³A. J. Rovner and R. Tonja, Are children with Type 1 Diabetes consuming a healthful diet? A review of the current evidence and strategies for dietary change. *Diabetes Educ.*, 2009; 35:97–107.
- ⁷⁴American Academy of Pediatrics. Media Use in School-Aged Children and Adolescents. *Pediatrics*, 2016; 138(5):e20162592.
- ⁷⁵M. Story, D. Neumark-Sztainer, and S. I. French, Individual and environmental influences on adolescent eating behaviors. *J Am Diet Assoc.*, 2002; 102(S3):S40–S51.
- ⁷⁶R. S. Sebastian, J. D. Goldman, and C. W. Enns, Snacking patterns of U.S. adolescents: What we eat in America, NHANES 2005–2006. Available at: http://www.ars.usda.gov/SP2UserFiles/Place/12355000/pdf/DBrief/2_adolescents_snacking_0506.pdf. Accessed July 25, 2019.
- ⁷⁷P. Zollo, *Wise Up to Teens: Insight into Marketing and Advertising to Teenagers*. 2nd ed. Ithaca, NY: New Strategist Publications, 1999.
- ⁷⁸S. Mancini and J. Harris, Policy changes to reduce unhealthy food and beverage marketing to children in 2016 and 2017. Available at: www.uconnruddcenter.org. Accessed July 25, 2019.
- ⁷⁹A. Lenhart, Teens, Social Media & Technology Overview 2015. Washington, DC: Pew Internet and American Life Project, 2015.
- ⁸⁰M. S. Sturdevant and R. A. Spear, Adolescent development. *J Am Diet Assoc.*, 2002; 102:S30–S31.
- ⁸¹H. Hiza, P. Guenther, and C. Rihane, Diet Quality of Children Age 2–17 Years as Measured by the Healthy Eating Index-2010 Nutrition Insight 52. Available at: https://fns-prod.azureedge.net/sites/default/files/nutrition_insights_uploads/Insight52.pdf. Accessed July 25, 2019.
- ⁸²L. A. Lytle, Nutritional issues for adolescents. *J Am Diet Assoc.*, 2002; 102:S8–S12.
- ⁸³D. Neumark-Sztainer, et al., Eating, activity, and weight-related problems from adolescence to adulthood. *Am J Prev Med.*, 2018; 55:133–141.
- ⁸⁴M. K. Vallabhan, E. Y. Jimenez, and J. L. Nash, Motivational Interviewing to treat adolescents with obesity: a meta-analysis. *Pediatrics*, 2018; 142: e20180733.
- ⁸⁵I. R. Contento, *Nutrition Education: Linking Research, Theory, and Practice*. Sudbury, MA: Jones and Bartlett Publishers, 2010.
- ⁸⁶D. A. Fedeale, C. C. Cushing, et al., Mobile health interventions for improving health outcomes in youth: A meta-analysis. *JAMA Pediatr.*, 2017; 171:461–469. DOI:10.1001/jamapediatrics.2017.0042
- ⁸⁷US Department of Health and Human Services, The Administration for Community Living. *2018 Profile of Older*

- Americans*; 2018. Available at: <https://acl.gov/sites/default/files/Aging%20and%20Disability%20in%20America/2018OlderAmericansProfile.pdf>. Accessed July 28, 2019.
- ⁸⁸S. Saffel-Shrier, M. A. Johnson, and S. L. Francis, Position of the Academy of Nutrition and Dietetics and the Society for Nutrition Education and Behavior: Food and Nutrition Programs for Community-Residing Older Adults. *J Acad Nutr Diet.*, 2019; 119:1188–1204.
- ⁸⁹World Health Organization. World Health Statistics 2010. Available at: <http://www.who.int/whosis/whostat/2010/en/index.html>. Accessed July 25, 2019.
- ⁹⁰American Dietetic Association. Position of the American Dietetic Association: Providing Nutrition Services for People with developmental Disabilities and Special Health Care Needs. *J Am Diet Assoc.*, 2010; 110:296–307.
- ⁹¹K. M. Flegal, M. D. Carroll, C. L. Ogden, et al., Prevalence and trends in obesity among US adults, 1999–2000. *J Am Med Assoc.*, 2009; 288:1723–1727.
- ⁹²J. Jarrat and J. B. Mahaffie, The profession of dietetics at a critical juncture: A report on the 2006 environmental scan for the American Dietetic Association. *J Am Diet Assoc.*, 2007; 107:S39–S57.
- ⁹³J. M. Bauer, M. J. Kaiser, P. Anthony, et al., The Mini Nutritional Assessment®—Its history, today's practice, and future perspectives. *Nutr Clin Pract.*, 2008; 23:388–396.
- ⁹⁴E. J. Lyons, M. C. Swartz, and Z. H. Lewis, Feasibility and acceptability of a wearable technology physical activity intervention with telephone counseling for mid-aged and older adults: A randomized controlled pilot trial. *JMIR Mhealth Uhealth.*, 2017; 6;5(3): e28264796.
- ⁹⁵N. H. Jonkman, K. S. van Schooten, A. B. Maier, et al., eHealth interventions to promote objectively measured physical activity in community-dwelling older people. *Maturitas*, 2018; 113:32–39.
- ⁹⁶P. Fergusson, N. Greenspan, L. Lukas Maitland, et al., Towards providing culturally aware nutritional care for transgender people: Key issues and considerations. *Can J Diet Pract Res.* 2018; 79:74–79, DOI: 10.3148/cjdp-2018-001.
- ⁹⁷L. Margolies and C. G. Brown, Increasing cultural competence with LGBTQ patients. *Nursing* 2019, 2019; 49:34–40. DOI:10.1097/01
- ⁹⁸A. R. Flores, J. L. Herman, G. J. Gates, and T. N. Brown, How many adults identify as transgender in the United States? The Williams Institute. Available at: <https://williamsinstitute.law.ucla.edu/wp-content/uploads/How-Many-Adults-Identify-as-Transgender-in-the-United-States.pdf>. Accessed July 30, 2019.
- ⁹⁹E. J. Pérez-Stable, Director's Message: Sexual and Gender Minorities Formally Designated as a Health Disparity Population for Research Purposes. 2016. Available at: www.nimhd.nih.gov/about/directors-corner/messages/message_10-06-16.html. Accessed July 30, 2019.
- ¹⁰⁰I. H. Meyer, Prejudice, social stress, and mental health in lesbian, gay, and bisexual populations: conceptual issues and research evidence. *Psychol Bull.*, 2003; 129:674–697. DOI:10.1037/0033-2909.129.5.674.
- ¹⁰¹M. Garcia, Study: Antigay communities lead to early LGBT death. *Advocate*, 2014. Available at: <https://www.advocate.com/health/2014/02/16/study-antigay-communities-lead-early-lgb-death>. Accessed July 30, 2019.
- ¹⁰²Office of Disease Protection and Health Promotion. Healthy People 2020. Available at: <https://www.healthypeople.gov/2020/topics-objectives/topic/lesbian-gay-bisexual-and-transgender-health>. Accessed July 30, 2019.
- ¹⁰³R. Rahman and W. R. Linsenmeyer, Caring for transgender patients and clients: Nutrition-related clinical and psychosocial considerations, *J Acad Nutr Diet.*, 2019; 119:727–732. DOI:<https://doi.org/10.1016/J.JAND.2018.03.006>
- ¹⁰⁴Academy of Eating Disorders. Available at: <http://www.aedweb.org>. Accessed July 30, 2019.
- ¹⁰⁵B. Lian, S. E. Forsberg, and K. K. Fitzpatrick, Adolescent anorexia: Guiding principles and skills for the dietetic support of family-based treatment. *J Acad Nutr Diet.*, 2019; 119:17–22.
- ¹⁰⁶M. Golan and S. Crow, Parents are key players in the prevention and treatment of weight-related problems. *Nutr Rev.*, 2004; 62:39–50.
- ¹⁰⁷B. A. Spear, Does dieting increase the risk for obesity and eating disorders? *J Am Diet Assoc.*, 2006; 106:523–525.
- ¹⁰⁸R. Puhl, W. Wharton, and C. Heuer, Weight bias among dietetics students: Implications for treatment practices. *J Am Diet Assoc.*, 2009; 109:438–444.
- ¹⁰⁹K. Davis-Coelho, J. Waltz, and B. Davis-Coelho, Awareness and prevention of bias against fat clients in psychotherapy. *Professional Psychology: Research and Practice*, 2000; 31:682–684.
- ¹¹⁰I. Brown, Nurses' attitudes towards adult patients who are obese: Literature review. *J AdvNurs.*, 2006; 553:221–232.
- ¹¹¹M. R. Hebl and J. Xu, Weighing the care: Physicians' reactions to the size of a patient. *Int J Obes.*, 2001; 25:1246–1252.
- ¹¹²M. B. Schwartz, H. O. Chambliss, K. D. Brownell, et al., Weight bias among health professionals specializing in obesity. *Obes Res.*, 2003; 11:1033–1039.
- ¹¹³L. McArthur and J. Ross, Attitudes of registered dietitians toward personal overweight and overweight clients. *J Am Diet Assoc.*, 1997; 97:63–66.
- ¹¹⁴S. M. Phelan, J. F. Dovidio, R. M. Puhl, et al., Implicit and explicit weight bias in a national sample of 4,732 medical students: The medical student CHANGES study. *Obesity*, 2014; 22:1201–1208. DOI.org/10.1002/oby.20687.
- ¹¹⁵N. K. Amy, A. Aalborg, P. Lyons, et al., Barriers to -routine gynecological cancer screening for White and -African-American obese women. *Int J Obes.*, 2006; 30:147–155.
- ¹¹⁶R. M. Puhl, Treating obese patients: The importance of improving provider-patient interaction. Medscape Public Health & Prevention. <http://www.medscape.com/viewarticle/722041>. Accessed April 14, 2014.
- ¹¹⁷R. M. Puhl and C. A. Heuer, Weight bias: A review and update. *Obesity*, 2009; 17:941–964.
- ¹¹⁸T. A. Wadden and E. Didie, What's in a name? Patients' preferred terms for describing obesity. *Obes Res.*, 2003; 11:1140–1146.
- ¹¹⁹V. DiLillo, N. J. Siegfried, and D. Smith-West, Incorporating motivational interviewing into behavioral obesity treatment. *Cogn Behav Pract.*, 2003; 10:120–130.
- ¹²⁰R. Pietsch, Becoming the kingdom of god: Building bridges between religion, secular society, and persons with disabilities: The ministry of Harold Wilke. *Journal of Religion, Disability & Health*, 1522–9122, 1996; 2(4):15–25.
- ¹²¹Position of the Academy of Nutrition and Dietetics: Nutrition Services for Individuals with Intellectual and Developmental Disabilities and Special Health Care Needs. *J Acad Nutr Diet.*, 2015; 115:593–608.

- ¹²²D. M. Taylor, Americans with Disabilities: 2014 Household Economic Studies. 2018. Available at: <https://www.census.gov/content/dam/Census/library/publications/2018/demo/p70-152.pdf>. Accessed July 30, 2019.
- ¹²³L. Lipscomb, Person-first practice: Treating patients with disabilities. *J Am Diet Assoc.*, 2009; 109:21–25.
- ¹²⁴E. Quann, *By His Side Life and Love after Stroke*. Hyland, MD: Fastrak Press, 2002.
- ¹²⁵M. J. Yerkes, Disabilities Etiquette 101. Available at: https://www.childrensall.org/workfiles/Clinical_Services/Adolescent/Interview/Disability_article.pdf. Accessed July 30, 2019.
- ¹²⁶Autistic spectrum disorder fact sheet: Community, politics & culture of autism. Available at: <http://www.autism-help.org/autism-politics-culture-community.htm>. Accessed April 14, 2014.
- ¹²⁷*The 10 Commandments of Communicating with People with Disabilities*. Challenge Publications Limited, 2001.
- ¹²⁸National Aphasia Association. Communication Tips. Available at: <http://www.aphasia.org/content/communication-tips>. Accessed April 14, 2014.

10

Group Facilitation and Counseling



Monkey Business Images/Shutterstock.com

Learning Objectives

- 10.1** Explain characteristics of three common communication styles.
- 10.2** Use questions appropriately in a group setting.
- 10.3** Identify desirable characteristics and behaviors of group facilitators.
- 10.4** Summarize a group facilitator's responsibilities.
- 10.5** Describe selected techniques for organizing a group meeting.
- 10.6** Explain advantages and disadvantages of group counseling.
- 10.7** Use an emotion-based approach in a group setting.
- 10.8** Implement a behavior change group counseling session.

A well run group is not a battlefield of egos.

—LAO TZU

As a nutrition professional, you are likely to need group facilitation skills for diverse objectives. You may be the leader of a community group or working with colleagues to develop a program or implement a nutrition intervention. In another case, you could be called on to present in-service training to a group of health care professionals with the objective of creating awareness, such as knowledge of nutrition factors related to the DASH food plan. Offering group counseling to clients has been found to work effectively and efficiently, either as a stand-alone program or in combination with individual counseling. The following discussion of group work is divided into two categories. The first, facilitating groups, focuses on leading a number of people with a particular goal in mind, such as developing a program for nutrition month at a long-term care facility. The second section, group counseling, provides guidance for working with groups where the objective is behavior change. Factors related to giving effective presentations to groups are provided in Chapter 12. We will start with reviewing some factors common to a leader of any group, including a review of communication styles and using questions effectively in a group setting.

10.1 Communication Styles

No matter what type of group you are working with, knowledge of communication styles and understanding the impact they have on others will help you to be an effective group leader. Table 10.1 describes three

communication styles you are likely to encounter. Both submissive and aggressive styles provide challenges. As we review group process strategies, you will gain knowledge of possible ways to work with these styles. The most effective style for leading a group is an assertive communication style.

10.2 Using Questions in a Group

Whether you are facilitating a group toward a common goal or conducting a group counseling intervention, having an arsenal of effective questions and knowing when to use them is essential. Appropriately used questions can help keep a group on task and moving toward the desired goal. Using questions during an individual counseling intervention was covered in Chapter 3. Here we will explore types of questions and their significance in group interventions.

Types of Questions

There are various types of questions, and the ones you choose depend on your objective. You want your questions to meet the needs of the group, help elucidate matters under discussion, and promote participation. As previously discussed in Chapter 2 regarding motivational interviewing, getting people to talk about possibilities encourages ownership of outcomes. As a facilitator, you need to be cognizant of this fact and encourage participation of all members of the group.

Table 10.1 Communication Styles

Category	Submissive	Assertive	Aggressive
Characteristics	May be emotionally dishonest, indirect, self-denying, inhibited	Is appropriately: emotionally honest, direct, self-enhancing, expressive	Is inappropriately: emotionally honest, direct, self-enhancing at the expense of another, expressive
Your feelings when you engage in this behavior	Hurt, anxious at the time, and possibly angry later	Confident, capable, self-respecting at the time and later	Righteous, superior, powerful at the time, and possibly guilty later
The other person's feelings about self when you engage in this behavior	Guilty or superior	Valued, respected	Hurt, humiliated
The other person's feelings about you when you engage in this behavior	Pity, irritation	Generally respected	Angry, vengeful

Source: Adapted from Alberti & Emmons. *Stand Up, Speak Out, Talk Back!* New York: Pocket Books, 1975; Katz & Lawyer. *Communication and Conflict Resolution Skills*. Dubuque, IA: Kendall/Hunt, 1985.

Exercise 10.1 Evaluate Past Group Experiences

Consider your best experience as the member of a small group. Describe the setting and the function of the group. What made the experience go well? What was your role in the group? Is there anything in that encounter that you would like to emulate in your work as a group facilitator? Explain.

Facilitators choose the content and the focus of a question by evaluating what is needed to move a discussion forward. Group members can be stuck because they do not have adequate knowledge. In that case, the need is for questions seeking facts or clarification of concepts. If the discussion appears disjointed, a process question may be in order asking participants to choose a

solution, predict what will happen, or to compare and contrast two situations. If a need to address emotions arises, affective questions can be used probing for opinions, feelings, attitudes, or beliefs. Behavior questions are useful if a plan of action is under discussion while several members have indicated they are not ready for that step. If that is the case, the focus of questions should be on the application of new knowledge, what they learned from past experiences, or how they can solve a problem.¹ Table 10.2 provides examples of categories of questions with examples of application for specific group situations. Questions that put individuals “on the spot” by asking for justification for their actions or identifying blame are not likely to promote positive group dynamics. See Table 10.3 for a list of ineffective questions and possible alternatives. Exhibit 10.1 provides a list of questions generally found to be effective in a group setting.

Table 10.2 Categories of Questions for Groups

Category	Description
Factual Questions	Assist in obtaining additional details likely to provide answers to one of the five Ws: who, what, when, where, and why. <i>Example:</i> Who has worked with individuals diagnosed with aphasia?
Explanatory Questions	Aid in the search for reasons and explanations. <i>Example:</i> Does anyone know what happened?
Justifying Questions	Help in challenging previous procedures and encourage giving consideration to new ones. <i>Example:</i> How about if we scheduled the event on the weekend rather than a weekday this year?
Leading Questions	Assist in focusing and advancing an idea. Also, they can provide a conclusion and move a discussion toward closure. <i>Example:</i> How do others feel about placing the focus on fast food?
Theoretical Questions	Help to introduce another idea or redirect the flow of the discussion. <i>Example:</i> Let’s suppose that the health department wants to participate?
Alternative Questions	Assist in making a choice. They help the facilitator take control by providing only two options. <i>Example:</i> What are the advantages and disadvantages of having the event on a Saturday afternoon or a Friday night?
Exploratory Questions	Aid in exploring areas not previously addressed. <i>Example:</i> Has anyone had a different experience you would like to share?

Source: Adapted from Soil and Water Conservation District Outreach: *A Handbook for Program Development, Implementation and Evaluation*. Ohio Department of Natural Resources, Division of Soil and Water Conservation, 2003.

Exhibit 10.1 Questions Generally Found to Be Effective in Groups

- Can you tell me more?
- How would that work here?
- What results do you want?
- What can we expect?
- What would be the advantages or benefits of this approach?
- What options do you have for getting past this obstacle?
- How can you do that even better?
- What will it ideally look like when it's complete?
- What's your reaction?
- What has worked most effectively in similar situations?
- What was particularly effective about the way that worked?
- How would you do it differently another time?
- What would be the benefit of doing it differently?

Source: Soil and Water Conservation District Outreach: *A Handbook For Program Development, Implementation and Evaluation*. Ohio Department of Natural Resources, Division of Soil And Water Conservation, 2003.

10.3 Facilitating Groups

Never doubt that a small group of thoughtful citizens can change the world. Indeed, it is the only thing that ever has.

—MARGARET MEAD

For a group (team or committee) to accomplish a task, there needs to be someone designated to be the facilitator. Groups meet for various reasons, including to talk about a concern, exchange information, identify issues, complete a task, build consensus, develop plans, make a decision, or solve problems. See Exhibit 10.2 for a list of desirable characteristics of a group facilitator that are useful in guiding a group to accomplish these tasks. The word *facilitate* derives from “facile,” a French word which means “to enable, to make easy.” However, getting a group to work together effectively is not always easy. The role of a facilitator is to use knowledge of group processes to provide structure allowing the group to remain focused on content and work effectively to bring about results. The processes include creating an open and inclusive environment using methods that allow group members to interact productively with each other. The content addresses the issues under discussion needed to reach the ultimate goal or goals of the group. The desired outcomes are to keep the process on track and moving forward with all participants engaged, making best use of time and resources, and to balance participation with objectives of the meeting.

Preparation

The first task at hand is preparation. There should be an understanding of why there needs to be a meeting. Goals that are specific, concrete, positive, realistic, and practical must be defined. Other factors a leader needs to consider include who needs to attend, when the meeting can occur, where the meeting will take place, and what potential problems could occur that need to be addressed before the meeting. Consideration should also be given to evaluating the need for equipment and supplies, soliciting input of participants, and identifying support roles (time keeper, recorder, and so on). In addition, an agenda should be developed and sent to participants before the meeting.

Table 10.3 Formulating Effective Questions

Less-Effective Questions	Effective Questions
Who made that decision?	Where do we go from here?
Why didn't you finish?	What needs to be completed?
What's your problem?	What else?
Why did you do that?	What were your specific objectives?
Who wants to tell about this problem?	What is the best way to handle this?
You don't know better than that?	What support do you need?

Source: Adapted from Soil and Water Conservation District Outreach: *A Handbook for Program Development, Implementation and Evaluation*. Ohio Department of Natural Resources, Division of Soil and Water Conservation, 2003.

Exhibit 10.2 Desirable Characteristics and Behaviors of a Good Facilitator

Actively listens and observes	Asks probing questions	Uses humor
Shows respect and empathy	Thinks quickly	Knows a variety of techniques
Appears honest and fair	Assertive	Energizes the group
Accessible	Flexible	

Source: Adapted from: Lawson, S. L. A quick reference guide for facilitators. Ministry of Agriculture Food and Rural Affairs, 2019. Available at <http://www.omafr.gov.on.ca/english/nfporgs/95-073.htm>; Burke, D. W., Donahoe, M., Hirzel, R., et al. Basic Facilitation Skills. The Association for Quality and Participation, The International Association of Facilitators; 2002. Available at: http://asqhdandl.org/uploads/3/4/6/3/34636479/2002_facilitation.pdf.

Organizational Strategies

Your plan should take into consideration the organization and flow of the meeting. There are a number of intervention possibilities, depending on desired outcomes. The following reviews some useful strategies for decision making and problem solving:²

Pair-Share Pair-Share works well with a large group. This process provides an opportunity for all participants to discuss their thoughts and feelings about a topic with another individual. When the topic is opened up for general discussion, the comments are likely to be more concisely and coherently formulated after sharing with small groups.

Process

1. The facilitator should supply one to three questions for discussion. Examples: Can you name two possible businesses to invite to the health fair? What food- or nutrition-related activities should be at the fair?
2. Participants should be asked to work with a partner to formulate answers.
3. After an appropriate time period, ask participants to share their ideas with the group.

Corners Corners tends to work well with a group when there are distinct tasks that need to be addressed. Participants are allowed to choose their task.

Process

1. Post the name of each task in a corner of the room. Example: For a health fair, the tasks may be divided into developing publicity, locating and contacting participating agencies and businesses, organizing the facility the day of the event, and coordinating volunteers.
2. Participants are asked to consider what part of the project interests them most.
3. Individuals are asked to move to their desired task corner.

4. At each corner, there will be specific questions to address related to the task.
5. After corner discussions, a speaker from each group will be asked to report back to the whole group.

ORID The ORID discussion method has a progression of questions that takes a group through four consecutive stages: objective, reflective, interpretive, and decisional. The facilitator asks probing questions that follow the natural sequence people generally use to contemplate an issue. This process is useful for reflecting on experiences and invites a variety of perspectives in a non-confrontational manner. The questions should flow naturally from one stage to the next.

Process

Example: A group has just finished implementing a health fair.

1. *Objective Discussion.* Questions focus on getting the facts. Possible questions could include: How many agencies participated? What did you observe?
2. *Reflective Discussion.* Questions focus on emotions and feelings. Possible questions could include: How do you think the health fair went compared to previous fairs? What was the most challenging part of organizing the event?
3. *Interpretive Discussion.* Questions focus on values, meaning, purpose, and its significance to the group. Possible questions could include: What did you achieve by organizing this event? What would you say about this event to someone who was not there?
4. *Decisional Discussion.* Questions focus on making a group decision or personal response to the experience. Should we organize a health fair next year? Are health fairs something you want to be involved with in the future?

Consensus Consensus is a method for making group decisions by encouraging members to share their

thoughts, feelings, and suggestions. To develop a sustainable agreement, a group facilitator needs to lead the group through four stages: “gathering diverse points of view, building a shared framework of understanding, developing inclusive solutions, and reaching closure.”⁵

Process

1. Explain the purpose of the discussion.
2. Review the values important to a good group discussion.
3. Explain that the goal is to reach an acceptable agreement in a defined time frame.
4. Repeat purpose of discussion.
5. Ask for someone to start the discussion. “Who would like to begin?”
6. After discussion, the group comes to a consensus agreeing on a course of action.

The preceding discussion provided a review of a few proven techniques, but numerous methods are available. You should choose or modify one that best fits the needs of your group. See resources at the end of this chapter to locate additional descriptions of more techniques.

Group Management

Now, we will review factors to consider at the beginning, middle, and end of a group meeting.

Beginning At the beginning of a meeting, there are some factors to consider to encourage openness and trust. You may want to use an icebreaker, especially if you are leading a group of people who do not know each other. This is a way to dispel anxiety, help participants to get to know each other, and possibly find areas of commonality. A fun and organized process for conducting introductions is a human treasure hunt. See Exhibit 10.3. Other possibilities include having participants interview each other and report findings back to the group or, depending on the age level, using a bean bag to toss to group members to determine the next speaker to introduce self. Openings could include humor (possibly a cartoon projected on a screen), an open-ended question, or an interesting story. Depending on the purpose and the composition of the group, you may wish to set some ground rules. See Exhibit 10.4 for a list of common ground rules. In addition, you may wish to go over the agenda and agree on topics to be covered during the group session. You can ask participants to describe their expectations of the group process.

Starting a meeting on time is important to show respect for the individuals who made an effort to arrive

Exhibit 10.3 Human Treasure Hunt Guidelines

This activity is a good icebreaker but probably would not work well for groups with fewer than eight members. Besides helping participants become acquainted with each other, it also encourages the process of sharing experiences and coping strategies.

1. Before your meeting, find out something interesting or special about each participant. Preferably identify a fact related to the group concern. For a group of individuals who experienced a heart attack, an example of a statement could be: “Find a person who enjoys eating oatmeal for breakfast.”
2. Compose a human treasure hunt sheet by writing a list of the facts on a sheet without names.
3. At the beginning of the meeting, hand out the form and ask group members to search for the member who meets that description.

Close the activity by reading the facts and identifying the person who corresponds to each fact.

Exhibit 10.4 Common Ground Rules for Meetings

Attend all meetings and be on time.
 Start and end meetings on time.
 Be willing to share with the group.
 Listen to and show respect for the opinions of others.
 Look for value in every idea (listen openly).
 Follow the agenda—stay on track.
 Adhere to rules of confidentiality.
 Refrain from engaging in side conversations.
 Turn off cell phones.

on time. Inevitably there will be participants who arrive late. In that case, smile and greet the late arriver warmly, give a ten-second update on the progress of the meeting, and encourage participation.⁶

Guiding the Flow To run an effective meeting, a facilitator will need to guide the flow of participation and keep the focus on content. See Table 10.4 for suggestions to enable the process. Also if you planned to use a specific strategy as described under preparation in this chapter, the technique should be implemented after the introduction phase of the meeting. If the flow of the meeting

Table 10.4 Strategies to Guide Participation and Flow of Content

Category	Description	Examples
Paraphrasing	This can be used to highlight an important point that may need clarification. It also can have a calming effect if a participant expressed an idea in an offensive manner. See Chapter 3 for elaboration of paraphrasing.	Begin with "What I hear you saying is . . ." End with, "Does that correctly reflect what you expressed?"
Drawing People Out	If an individual has expressed a vague or unclear idea, paraphrasing is used and then there is a request for clarification.	"Can you elaborate on this idea?" "How so?"
Stacking	When there are several participants who have indicated a desire to speak, a list is verbalized to indicate speaking order.	"OK first we will hear from . . . , then from . . ."
Tracking	Various lines of thought are tracked and summarized.	"So what I am hearing are comments on the type of event that should be planned, the amount of money available for an event, and possible topics to be covered during the event. Do I have this right?"
Encouraging	Provides an opening for all to participate without calling on a particular nonparticipating individual.	Has this discussion raised any questions for anyone?
Balancing	By asking for additional opinions, individuals are encouraged to express their thoughts.	"So far we have heard from two people who believe . . . Are their additional viewpoints we should consider?"
Making Space	Encouraging input from a participant who has indicated by facial expression or body language a desire to speak.	"Do you have something you would like to add . . . ?" "Is there something you would like to say?"
Identifying Common Ground	If group members are expressing contrasting opinions and appear to be losing sight of the common goal, this is a good time to: (1) Indicate you are going to summarize differences (2) Summarize the opinions (3) Identify common ground (4) Check for accuracy	"We appear to have very different opinions about this matter. I would like to summarize the differences . . . However, we seem to agree on . . . Is this accurate?"

Source: Adapted from Kaner, S. *Facilitator's Guide to Participatory Decision-Making*. Gabriola Island, British Columbia: New Society Publishers, 1996.

appears to be lagging, the following provide some stimulation ideas:

- What's making the most sense about what we've covered so far?
- Summarize group decisions and ask "What else?" rather than "Anything else?"
- Consider silence. As the facilitator of a group, a novice leader can feel pressure to fill silence. Often silence occurs early in a session when no one wants to initiate conversation. However, the silence can also indicate to the group that the facilitator does

not intend to dominate. Ordinarily, if the silence is long enough, someone will take the initiative for beginning a discussion.

Closing Factors for closing a meeting will in part depend on the purpose of the meeting. The end may occur at a preset time or after a goal has been achieved. The following contains general guidelines for closing a meeting:

1. **Summarize.** You could do the summary yourself, enlist group members to contribute to the

summary, or have someone appointed to monitor the meeting process and report on it at the end. A summary should provide a synopsis of what occurred during the meeting, highlighting challenges and successes. Be sure to include key points generated by individuals of the group.

2. **Evaluation.** Although the summary process is a type of evaluation, you may wish to do a more formal assessment. See the following section for some ideas.
3. **What's next?** Review plans for the future, such as the time and date of the next meeting and any problems to be addressed before the next meeting.
4. **Thank you.** Thank the group for their participation and congratulate them for their accomplishments.

Evaluation Take time in the meeting for feedback. Evaluations can be done verbally by the group or a paper assessment can be done individually.

- For verbal evaluations, one possibility is using a flipchart. On one side of the chart write a plus sign, which denotes strengths, and on the other write a delta, which signifies change, things to improve. Write answers directly on the chart paper.
- For paper evaluations see Table 10.7 at the end of this chapter. Another possibility is to provide participants with open questions that allow freedom to express thoughts. The paper could include the following: "Our meeting today was ..." "Today we accomplished..." Next time, I think we should..."¹

Follow-Up Again, depending on the composition and purpose of the meeting, there may be a need to perform follow-up activities. They may include the following:¹

- Maintain contact with members through websites, email, group chats, and so on.
- Review the accomplishments and concerns of the meeting with colleagues.
- Write thank you notes, if appropriate.
- Provide minutes of the meeting to participants.
- Provide information about the meeting to people who were absent.

Group facilitation can be a rewarding experience, which requires an integration of knowledge, skills, intuition, and attitudes. Knowledge of the group process can be gained through educational experiences. Facilitation

skills and intuition will evolve and improve through experience. A desire to create, explore, and work with people lays the foundation for developing a positive attitude toward facilitating groups.²

10.4 Group Counseling

Group counseling provided by nutritionists is intended to elicit behavior change related to nutrition issues. Your job is to provide a group atmosphere encouraging curious exploration and consideration of behavior modification alternatives. Several studies have found better outcomes of group counseling as compared to individual counseling.^{3,4} In a weight-loss study that began by asking individuals a preference for individual or group counseling, group counseling produced greater weight losses even when individuals expressed a preference for individual treatment.⁵

Advantages of Group Counseling

Group counseling affords many advantages:

- **Emotional support.** Groups help clients feel as if they are not alone in dealing with their nutritional concerns. Sharing experiences with others who really know what it is like can provide a great deal of emotional support. A cohesive group helps participants feel accepted and special.
- **Group problem solving.** Participants motivate each other to change as they share coping strategies and problem-solving together. As illustrated in the DOVE activity in Chapter 1, two heads are better than one. Sharing supplies additional ideas and generates suggestions that neither person would have thought of individually (that is, a synergy effect ensues) for finding solutions for overcoming obstacles to behavior change.
- **Modeling effect.** Participants learn from each other by observing the accomplishments of others with similar problems. By observing and taking part in behavior changes of others who are experiencing similar problems, all group members are likely to feel hopeful for themselves.
- **Attitudinal and belief examples.** As participants describe their attitudes and beliefs regarding health behavior challenges and perceived failures, other group members tend to reevaluate their own belief systems.

Disadvantages of Group Counseling

Unfortunately, group counseling also presents some potential drawbacks:

- **Individual responsiveness.** Some people do not easily share in a group setting, and as a result their issues may never be addressed.
- **Group member personalities.** The dynamics of a group are heavily influenced by members’ individual personalities. The ability of leaders to handle domineering, demoralizing, or needy individuals who may tend to monopolize time will impact on the counseling environment for all group members.
- **Possibility of poor role models.** Poor role models can create additional burdens for a counselor to counteract.
- **Meeting the needs of all group members.** It may be difficult to organize a group with similar issues and health concerns. Meeting the needs of participants who widely differ in age, gender, ethnic background, and specific health problems can be a challenge. If this is the case, there is limited opportunity to tailor an intervention for an individual participant.

Group Process

The first session is crucial because a group’s personality evolves early and is difficult to change at a later time. Therefore, interactive and fun activities should be planned according to the participants’ maturity level and interests. The principal objective is to address participants’ primary concern of feeling accepted and being acknowledged as worthy. The composition of a group can be open or closed.

Open Groups

Open groups are generally considered support groups where participants are encouraged to participate, but there is no commitment to a set number of sessions. In this case, participants generally generate the topics and share their own experiences.

The leader’s role is to facilitate the process. This type of group works well in Women, Infants, and Children (WIC) programs, diabetes clinics, or dialysis units. See Table 10.5 for a review of facilitator responsibilities for this type of group. However, open groups can also be theme guided. The successful Touching Hearts, Touching Minds (THTM) project provides a series of theme-based

Table 10.5 Summary of Facilitator Responsibilities

Category	Description and Examples
Gather and identify useful resources.	Locate or make handouts or have a list of referrals. For example, if the planned topic is healthy snacks, the facilitator may give participants a list of easy to prepare and healthy snacks.
Identify and support needs of the group.	Bring together individuals who have common issues such as diabetes, breastfeeding, or gastric bypass. Encourage participants to voice their needs.
Plan icebreakers that relate to the group.	For example, if you are leading a group of individuals who are following the DASH food plan, you may begin by asking participants to introduce themselves and to tell everyone their favorite low-sodium food.
Make sure all group members feel safe.	Set rules at the beginning of the session and ask that all members agree that the discussion will be kept confidential.
Arrange a comfortable room.	Set chairs in a circle so group members can see and talk easily with each other.
Keep discussion “on track.”	Make sure the discussion stays focused on the agreed-on topic.
Keep discussions moving toward change talk.	Encourage change talk as described in Chapter 2. “You each came up with a breakfast plan this week. Take a moment to think how confident you are on a scale of 1 to 10, where 1 is not confident at all and 10 is highly confident that you will do this.”
Make sure all members feel their contributions are important.	Acknowledge a contribution through body language or compliment.
Encourage all members to contribute.	Ask opinions of quieter members or ask open-ended questions.

(continued)

Table 10.5 Summary of Facilitator Responsibilities (*continued*)

Category	Description and Examples
Actively listen.	Encourage all participants to actively listen and have only one person talk at a time.
Correct misinformation.	Make corrections in a comfortable manner. For example, "I'm glad you brought that up. There is so much about that topic in the media. Research hasn't been able to support the claim." Or name a highly respected organization, "The American Diabetes Association recommends . . ."
Provide structure for the group.	This may include recording, guiding, and summarizing. Depending on the objective of the group, you may wish to write main points on an easel or writing board.

Source: Adapted from Facilitating WIC Discussion Groups. Available at: https://wicworks.fns.usda.gov/wicworks/Sharing_Center/WA/Connect/Facilitating.pdf.

lesson plans using an emotion-based approach to guide group meetings with WIC clients. They aim to provide an engaging and memorable experience encouraging behavior change. Exhibit 10.5 provides an example of a group lesson plan regarding family meals.

Closed Groups

The remaining discussion in this section pertains to running *closed groups*—that is, groups that do not accept new members after the first or second session. Generally closed groups of eight to twelve members allow for greater bonding to take place and provide a more suitable environment for behavior change to take place than

larger groups. In the ideal cohesive group, each member feels a sense of belonging and acceptance. A counselor guides a group on a journey of self-discovery and shared problem solving. To run effective groups, it is necessary to build on skills developed for conducting individual counseling sessions. The following six steps have been identified as important for the development of cohesive, well-functioning groups.^{6,7}

Step 1: *Establish an open, warm environment and productive leader-participant relationships.* The same rules for establishing rapport in one-on-one counseling apply to group counseling. Facilitators need to show empathy,

Exhibit 10.5 Touching Hearts. Touching Minds Lesson Plan

Set the table (Family meals)

What is the key message?

- Family meals provide emotional, physical, intellectual and spiritual nourishment.
- Family meals connect families in a powerful way.

Who should receive this message?

- Any parent.

How can this message be used?

Open:

- Parents face challenges today that didn't exist or weren't common when your parents were raising you. What are some of the challenges you face raising children, challenges that exist because we live in changing, turbulent times?

Sample responses:

- | | | |
|----------------------|---------------------------------|---------------------------------------|
| – Unsafe communities | – War and nuclear threats | – Threats of attacks, even in schools |
| – Internet predators | – Parents working multiple jobs | – Street crime |
| – Gang activity | with little quality time with | – Uncertain times |
| – Violence on TV | children | |

(continued)

Exhibit 10.5 Touching Hearts. Touching Minds Lesson Plan (continued)

- Suppose I could take out a prescription pad and write a prescription for something that would help protect your child from the scary times in which we live. Would you be interested?
- The prescription I would write would be this: Eat meals together as a family. Family meals have enormous power. They can be the family lifeline during turbulent times. Eating together gives you and your children a sense of belonging, a connection that allows them to be strong when challenged.

Idea for a group:

- Have any of you played “Fly-on-the-Wall” before? It’s a fun game. Ready to play? Imagine I was a “fly-on-the-wall” during your most recent mealtime with your family. A fly-on-the-wall has a way of getting around and seeing things you might not see when you’re involved in a certain situation. What would I see or hear during mealtimes at your home?

Dig:

- How can busy parents find time to sit down and eat together with their families?
- What makes it difficult for your family to eat together?
- What can parents say and do at meals that give everyone—even babies—a chance to connect?
- Family meals can be pressure cookers or oases of peace in a busy day. What can parents do to make them peaceful, fun experiences for all?

Connect:

- What memories of your family meals do you hope your children will cherish?
- Are there rituals or traditions that you could start today that might be something they will share with *their* children?
- What are some things that children can learn from family meals?
- How do you feel, as a parent, after connecting with your child in a powerful way?

Act:

- Without a lot of additional effort or time, simply eating together as a family could actually change the direction of your child’s and family’s life.
- What’s for dinner at your house this week—and who will be enjoying it with you?
- What are some things you can do this week to make eating together possible?
- What can you do to adapt your schedules to make family meals more frequent?

Source: Pam McCarthy and Associates. Emotion Based Messages. Touching Hearts, Touching Minds. 2008;THTM #16: Set the table (Family meals). Available at <http://www.touchingheartstouchingminds.com/>. Accessed on February 9, 2019.

appear warm and genuine, and use relationship-building responses, attentive behavior, and effective body language. You should radiate positive energy indicating that you are looking forward to your time with the group members. Note this does not mean high energy, which could be difficult to sustain. Facilitators with low energy are perceived as having low self-confidence.

One way of getting the flow of energy in the right direction is to stay focused on the group members and not let your mind drift to troublesome life issues such as

deadlines, childcare issues, and car problems.⁸ The counselor is a model of trusting behavior for all group members to emulate to promote openness and interpersonal communication. You may wish to start each meeting with an expression of intent to create an environment conducive to acceptance and open expression.

Ground rules for the group counseling program should be established during the first session. This can be an informal discussion or a written copy of guidelines signed by each participant. Leaders can ask the group to

Exercise 10.2 Implement Set the Table Lesson Plan

Work with a group of colleagues and follow the Women, Infants and Children Set the Table Lesson Plan in Exhibit 10.5. One person should volunteer to be the facilitator. For group individuals who do not have children, use your previous family experiences eating together or imagine the questions applying to a child of a relative or close friend.

1. Facilitator welcomes participants: "Hello everyone. Thank you all for participating in this activity. I am happy that we will be working and learning together."
2. Facilitator requests introductions: "I'd like to start by having each person give your name and say the ages of your children or of a close connection."
3. Facilitator encourages participation: "Each of your thoughts, opinions, and feelings are equally important. All of your contributions are valuable. If you have something to say, I hope you will feel free to say it."
4. Facilitator chooses questions: Follow the sequence of the lesson plan in Exhibit 10.5. Choose one or two questions from each category.
5. Summary: The facilitator should make a short summary and encourage group members to contribute to the summary. "Can anyone add to this summary?"

Debriefing

After the activity, evaluate the outcomes as a group. Discuss the following questions:

- ☐ What part of the process did you find the most effective?
- ☐ This lesson plan is one of a series of **emotion-based** materials available from the Touching Minds Touching Hearts Project of the Massachusetts WIC Program. What do you think was the impact of encouraging an emotion-based discussion?
- ☐ What did you learn from the activity?
- ☐ Are there components of this process that you can see yourself using in the future with personal or group counseling?

formulate ground rules with the leader making informal suggestions, or to save time the facilitator can provide a preset list of guidelines and ask the group to comment and modify. For a list of guidelines generally found in ground rules, see Exhibit 10.4. For the first session, consider using an activity described by Kellogg:⁹

"Imagine a time (next spring, for example) when you have achieved some of the goals you came to work on in this group. Jot down what you expect/hope to experience then as a result of making these changes you are working on. What is the best part of having made the behavior changes you want to accomplish? What do you imagine being able to do then that you cannot do now? Write down your thoughts and then share with the group. With on-going groups, this could be done periodically."

Step 2: Balance facilitator-generated and group-generated information. The challenge for nutrition counselors is to cover a preset curriculum and integrate client needs and experiences and allow the group to generate solutions and problem solve. Often counselors have a list of tasks identified as essential for clients to understand, but the facilitator-generated information will fall on deaf ears if group members have other concerns on their minds. For

example, a person who has diabetes and is worried about amputations due to complications may have trouble focusing on other issues such as glucose monitoring if the complication issue is not addressed first. One way to handle this potential problem is to ask participants in the first session to identify their pressing concerns. Then cover the most pressing problems first.

Step 3: Design problem-solving strategies. Many opportunities for group problem solving should be provided rather than having the counselor tell participants what they need to do. Specific guidelines for group problem solving can be found in Exhibit 10.6. However, there are times when giving advice is appropriate and has the most impact if there is a request for advice. The guidelines for giving advice were presented in Chapter 3. However, an additional factor to consider regarding the acceptance of advice is the likeability of the advice giver. Behaviors that encourage likability are provided in Exhibit 10.7.

As covered in Chapter 7 social disclosure is a powerful force for behavior change. Group counseling provides an ideal setting for coupling group problem solving with this process. Participants design and share a behavior change plan and receive feedback from the group. These

plans should be considered experiments to implement and evaluate. Experiments are more easily viewed as learning experiences allowing for adjustments in the plans. This reduces the likelihood of a participant feeling like a failure if the plan was not completely followed. Depending on the size of the group, you may wish to break into smaller groups for designing individual goals. In the following session each participant reports back to the group the results of the planned experiment.

Many of the interactive activities identified in Exhibit 6.7 in Chapter 6 can be applied in a group setting and

lend themselves to group problem-solving discussions. In fact, some of the activities and demonstrations are more practical for a group setting. For example, groups can list advantages and disadvantages of maintaining blood glucose levels, select a low sodium meal from printed restaurant menus, or role-play placing special orders at a restaurant. An effective way to use role playing is to verbalize probable or possible self-talk while making selections from a holiday buffet or after making poor selections from a smorgasbord of tempting foods.

Step 4: *Provide the opportunity for group members to practice new skills.* In step 3, the group worked as a whole to problem-solving or develop new strategies. Opportunities for each member to rehearse the skill can occur if members are divided into groups of two or three. For example, participants could each practice measuring portion sizes, analyzing blood glucose records of previous clients, or jointly modify a recipe. The new skill should be something clients can use before the next group session so members can report on their experiences using the skill in “real life.”

Step 5: *Use positive role models and pacing to keep the group motivated.* Spending time reviewing and understanding the successes of group members can provide a model for other participants to make alterations in their lifestyle.

Exhibit 10.6 Group Problem-Solving Guidelines

1. *Identify* a problem of one or more group members.
2. Assess the conditions that contribute to the problem and identify factors that promote healthful practices and alleviate the problem. Evaluate the following:
 - *Physical environment*—aspects of the external environment that cue poor eating habits, as well as aspects that remind the person to eat appropriately
 - *Social environment*—social situations that support poor eating habits and identify people who could support good eating habits
 - *Cognitive environment*—thoughts and feelings that get in the way and positive ideas that can be used to promote positive habits
3. *Brainstorm solutions.* The objective of brainstorming is to generate as many ideas as possible for consideration. There is one major rule: no censorship. No idea is rejected, no matter how silly or useless it may appear initially.
4. *Select a solution.* After all ideas are listed, the person selects one and plans the details of implementation and evaluation. The plan should be considered an experiment that will be evaluated and supply additional information. Possibly the participant picked an ideal plan and all goes well. However, if that is not the case, the results should be evaluated and the participant should feel free to abandon the plan or adjust the plan so it better fits the participant's lifestyle.

Source: Adapted from Raab, C., Tillotson, J. L., *Heart to Heart: A Manual on Nutrition Counseling for the Reduction of Cardiovascular Disease Risk Factors*. NIH Publication No. 83-1528. Washington, DC: U.S. Department of Health and Human Services; 1983.

Exhibit 10.7 Facilitator Likeability Behaviors

- Acknowledge and compliment.
- Let people know you like and enjoy them.
- Be enthusiastic, always allowing your joy for living to be visible.
- Listen fully, without interpreting, rather than waiting for someone to finish so you can talk.
- Show a genuine interest in participants and their lives.
- Take time to build relationships rather than being task-oriented.
- Accept each person with unconditional, positive regard.
- Smile.
- Like yourself—it's contagious.

Source: Pam McCarthy and Associates. *Emotion Based Messages*. Touching Hearts, Touching Minds. 2008; Available at http://www.touchingheartstouchingminds.com/tools_tips.php. Accessed February 2, 2019.

Successful members inspire others to follow their example and stay in the group. However, clients who are having difficulty and appear to be monopolizing the group time with their problems can be frustrating for the rest of the group. If counterproductive behaviors emerge, the counselor needs to block them from disrupting the group process. Disruptive behaviors include scapegoating, personal attacks, aside jokes, unrelated stories, and gossiping. The focus of blocking should be on the behavior, not on the person. Specific techniques for handling difficult clients can be found in Table 10.6. If necessary, the counselor should tell the client to stay after the session to receive personal attention.

Step 6: *Ask for evaluation and feedback.* Throughout the counseling process and after trying out a new activity or strategy, the facilitator should elicit feedback from the

Exercise 10.3 Evaluate Your Facilitator Qualities

Review the three communication styles described in Table 10.1, desirable characteristics of a good facilitator in Exhibit 10.2, and likeability behaviors in Exhibit 10.7. In your journal, answer the following questions:

1. What do you believe are the two most useful components of your communication style, facilitator characteristics, or likeability behaviors that will support your endeavors to be a good facilitator of groups? Explain.
2. What do you believe are the two weakest components of your communication style, facilitator characteristics, or likeability behaviors that could detract from your endeavors to be a good facilitator of groups? Explain.

Table 10.6 Suggestions for Dealing with Difficult Group Participants

Participant Behavior	Problem or Possible Motive	Possible Actions
Participant statement is definitely wrong.	<ul style="list-style-type: none"> • Making an obviously incorrect comment 	Must be handled delicately. Say, "That's great that it worked for you, but others have found . . ." or "That's one way of looking at it, but there are authorities that believe . . ." or "I see your point, but let's try looking at it this way."
Searching for leader's opinion Example: "What's wrong with GMOs?"	<ul style="list-style-type: none"> • Trying to put you on the spot • Trying to have you support one view • May be simply seeking your advice 	Generally, you should avoid solving problems. However, there are times you should give a direct answer. Before you do so, you may want to open up the discussion to other participants by asking, "Let us get some other opinions about this issue. How do you view this point?" (Direct your question to a particular person.)
Silent	<ul style="list-style-type: none"> • Bored • Indifferent • Feels superior • Timid • Feels input not wanted or valued 	<ul style="list-style-type: none"> • Your action will depend on what you believe is motivating the participant. • Use eye contact to encourage participation. • Arouse participant's interest by asking for his or her opinion. "I do not want to miss what you have to say. What do you think about this?" • Break into small groups.
Griper Example: "All this talk is useless."	<ul style="list-style-type: none"> • Has a pet peeve • Professional griper • Has legitimate complaint 	<ul style="list-style-type: none"> • Point out that we can't change policy here and that we must operate as best we can under the system. • Say you'll discuss problems with person privately later. • Ask group, "How do the rest of you feel?"
Side conversations	<ul style="list-style-type: none"> • May be related to the subject • May be personal • Distracting to the group and you 	<ul style="list-style-type: none"> • Friendly reminder: "Please, one conversation at a time." "Let's get down to business." • Pause until disruption stops. • Ask talker a question, or restate last opinion expressed and ask for an opinion. • Stroll over and stand casually behind or next to the participants who are talking. • If there are numerous side conversations, ask "Do we need to take a break?"

(continued)

Table 10.6 Suggestions for Dealing with Difficult Group Participants (*continued*)

Participant Behavior	Problem or Possible Motive	Possible Actions
Inarticulate	<ul style="list-style-type: none"> Lacks ability to put thought in order 	<ul style="list-style-type: none"> Say, "Thank you—let me repeat that." Then put the idea in better language.
Attacker Example: <i>"That is a stupid idea."</i>	<ul style="list-style-type: none"> Appears hostile Seems angry Can be abrasive Seeks to discredit an idea 	<ul style="list-style-type: none"> Remind the person that we need to respect all opinions. Remind the person that we agreed there will be no personal attacks. Ask them about their feelings. Ask them how their behavior helps the group. Try humor, "Do we need body armor for this meeting?"
Expert Example: <i>"You should just refuse to allow any soda in the house."</i>	<ul style="list-style-type: none"> Wants to control Wishes to be seen as the expert 	<ul style="list-style-type: none"> "Sounds as if you know a lot about this. Now, let's hear what others think. Who would like to share next?" "Grace, I'd like to stay with our discussion of self-talk and hear from others in the group before we cover new ground."
Dominator Example: <i>"We should be talking about the new Salmonella outbreak."</i>	<ul style="list-style-type: none"> Just likes to talk Wants to control Avoiding a topic 	<ul style="list-style-type: none"> Generally easy to spot; talking as entering the room; if possible, have person sit next to you; slowly turn your back toward dominator and say, "Thank you, Nurgis, does anyone view this differently?" "Miguel, it appears that you want to change the topic when we talk about monitoring food intake." "Hank, you are really telling an interesting story about your job, but let's plan to finish the story at the end of the session so we can review how everyone did with their goals this week."
Rambler	<ul style="list-style-type: none"> Just likes to talk May be related to wanting to control 	Discontinue eye contact; interrupt with a new question; "I think we need to move on."
Playful Behavior <i>"Let's end early today."</i>	<ul style="list-style-type: none"> Distracted 	<p>Compliment and move on. "You bring a lot of energy to this group, but we are getting off-track."</p> <p>Remind member of the ground rules.</p>

Source: Adapted from: © 1995, The American Dietetic Association. "Cardiovascular Nutrition."

group. For example, "Since we began meeting, what did you find particularly useful?" or "Did you find analyzing glucose records of previous clients useful?"

Ending

You will need to bring closure to the session. Provide a summary, which may include what you want to emphasize as well as problems, solutions, and change talk discussions.¹⁰ Consider requesting members of the group to contribute to the summary. Some possible questions include the following:

- What has made the greatest impact on you from the time we have spent together today?
- What do you think has benefitted you the most from our meeting today?

- What strategies have you learned here that you can picture using?

Special consideration should be given to the final meeting of an ongoing group in order to encourage the power of group support to have a continuing effect. Before the last meeting, tell the participants that you would like the group to honor and acknowledge accomplishments of the individuals. Ask members to either write or think about their journey of change and address the next chapter of the journey in their story, that is, what they plan to do to continue the new behaviors and possibly include some additional healthy changes. At the final meeting, summarize the evolution of the group and ask participants to share their stories.¹¹

Exercise 10.4 Match Problem Statement with Response

Review the following problem statements or behaviors and match with a facilitator response that could be effective:

Participant Statement	Counselor Response
1. _____ "That doesn't make any sense."	A. "How do others feel about the discussion so far?"
2. _____ "If you want to stop diarrhea, don't drink anything."	B. "That is one way of handling the problem. Does anyone else have an idea of what to do?"
3. _____ "I think our discussion isn't getting us anywhere."	C. "Do we need to take a break?"
4. _____ Numerous side conversations	D. Ask participant, "What do you think about this issue?"
5. _____ "If he doesn't eat dinner, just don't give him anything else to eat for the rest of the night."	E. "Remember we agreed to respect all opinions."
6. _____ Silent participant	F. "I am glad you brought that up. It seems so obvious, but actually that practice is dangerous."

Exercise 10.5 Challenging Group Scenarios

Review the following scenarios with your colleagues and discuss possible ways to deal with the situations.

Scenario 1: Dialysis Unit

Jamie is facilitating a group discussion in a kidney dialysis unit on dietary needs for individuals with diabetes who are receiving dialysis treatment. One of the participants, who looks bored and has previously attended a similar program, states, "This is a waste of time. How is this supposed to help us?"

How should Jamie respond?

Scenario 2: Rehabilitation Center

LaTonya is facilitating a group of patients who have experienced a heart attack. One of the participants is monopolizing the conversation. None of the other group members appear engaged or anxious to talk.

How could LaTonya handle this situation?

Scenario 3: Sports Club

Christopher is holding a session on healthy eating at a sports club. One of the participants looks bored and is looking out the window.

What should Christopher do?

Practical Considerations for Successful Groups

The following is an overview of practical matters that must be handled when organizing a group:^{6,11}

- **Allow adequate time for organization.** Generally six to eight weeks are needed to arrange for a meeting location, publicize, and develop curriculum.
- **Plan for adequate meeting time.** To receive the advantages of group counseling, sessions should be at least 60 and preferably 90 minutes in length.
- **Select a comfortable meeting room and location.** The room should be large enough to accommodate all participants to sit around a table or in a

U-shaped arrangement. A circular table provides a better environment for exchange among all group members rather than a rectangular table, at which participants are more likely to limit interaction to those directly across from them. Additional space to allow participants to break up into pairs or small groups would also be an advantage. If large people are likely to attend, be sure the room has sturdy chairs of adequate size. The room should have satisfactory lighting, temperature control, and ventilation. Generally, people feel more comfortable talking in a room that has a closed door. In addition, make sure that the location is easily accessible via public transportation and car.

- **Ideal group size for closed groups is eight to twelve participants.** This appears to be a good size for the development of a group identity. If the group gets too large, there will not be a free flow of conversation, and giving individual attention will be difficult. The tendency will be to revert to a lecture format. If the size is too small, the dynamics of the group will be severely impaired if one or two people are missing.
- **Contemplate collecting fees or refundable deposits before the first meeting.** Fees encourage better attendance. If a periodic pay schedule is used, fees should be paid before attendance at sessions. Some programs use refundable deposits that are gradually returned as participants attend meetings. In some cases, the refunds are graduated so that the final payment is the largest.
- **Appraise target group needs for selecting a meeting time.** If most members are working, then late afternoon, evening, or a weekend day should be considered. If possible, a survey could be taken of interested parties. A daytime meeting may work best for retired individuals.
- **Consider composition issues of the potential group.** Groups with common health concerns, age, and gender are likely to share similar needs and goals. However, some diversity can provide valuable perspectives. If the decision is to mix the composition, care should be taken to keep numbers somewhat balanced so no one feels left out.
- **Interview prospective group members.** Interviews could be handled over the phone, but it would be better to meet individuals in person. By assessing prospective participants, you can determine suitability for their participation and design a program that better meets their needs. Also, you can receive assurance that the people understand the specifics about the group purposes and procedures.
- **Group leaders should remain the same.** Group leaders should not be considered interchangeable. New leaders break continuity and cohesion and create disruption.
- **Be responsible. Start meetings on time and always be well prepared.** Test-run activities, such as measuring portion sizes. Make a list of equipment and supplies needed. Arrive early to be sure the room is arranged properly and equipment is working. Always follow through on promises to locate information or resources or to make contact with members between sessions.

Exercise 10.6 Interview a Group Counselor

Interview an individual, either on the telephone or in person, who runs group counseling programs, preferably nutrition programs. Ask the following questions, and record the answers in your journal.

1. What type of groups do you facilitate? How often do you run them?
2. How do you view your role in the group process?
3. What skills do you find particularly useful for facilitating groups?
4. Do you establish ground rules? If so, how are they set?
5. How do you set the agenda for the sessions?
6. How do you evaluate the effectiveness of the groups?
7. What advice do you have for a novice group counselor?
8. What did you learn from this interview?

Record the name of the person you interviewed and the date and time of the interview.

- **Plan sessions carefully.** Make an outline of topics, activities, and the amount of time expected to spend on each.
- **Consider refreshments.** Generally, sharing of food encourages bonding. The selections could provide exposure to foods promoted for the group. It is not unusual for participants to offer to bring in samples of foods. Group members could sign up to act as host or hostess to bring in refreshments. A restaurant meal or a potluck could be considered for the last meeting.
- **Call members who miss meetings.** If a participant misses a meeting, encourage group members to call to review what was covered and to encourage attendance at the next meeting. You may even design a buddy system. Be sure to request permission before distributing phone numbers.

10.5 Evaluation of Group Interactions

Running group meetings can be rewarding and challenging, and having a mentor to review progress can be beneficial. If possible, ask a colleague to sit in and provide feedback. Written evaluations from members can supply useful information. Table 10.7 provides a group assessment form to aid in evaluation.

Table 10.7 Group Assessment

<ul style="list-style-type: none"> For each statement fill in the box under the MOST APPROPRIATE heading that best describes the group during the four sessions. Please mark only ONE box for each statement. 			
	Not at all	Somewhat	A great deal
Facilitator Evaluation			
1. Warmly greeted participants.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Showed genuine interest and empathy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Encouraged participation, for example, "All of your contributions are valuable."	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Radiated positive energy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Established a clear agenda.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Made best use of time and resources.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Encouraged participation from all group members.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Used questions effectively.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Provided a clear and concise summary at the end.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group Interaction Evaluation			
10. Group members appeared interested and engaged in discussions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Group members freely discussed issues of concern.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Members respected and encouraged contributions of others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Members refrained from engaging in side conversations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Members of the group appeared comfortable with each other.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Individual members did not try to dominate or demoralize the group.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Intellectual needs of all group members were addressed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Group members offered supportive comments to each other.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CASE STUDY 10.1 Group Facilitation at a Diabetes Camp for Adolescent Girls

Donna Vente, RD, works as a nutrition counselor at a summer camp for forty pre-adolescent (ages 9 to 12) girls who have diabetes. You are heading a group to plan a final farewell celebration for the end of a two-week camp for participants and their families. The planning group consists of you, the assistant camp director, the recreation counselor, the head cook, psychotherapist, two junior counselors, and four pre-adolescent camp attendees. The group needs to plan decorations, a buffet, activities and entertainment, and possible vendors or resources for sale, such as books.

Source: Principle Reference: MacKenzie, K. R. (1983). The clinical application of a group climate measure. In R. R. Dies & K. R. MacKenzie (Eds.), *Advances in group psychotherapy: Integrating research and practice* (pp. 159–170). New York: International Universities Press.

Exercise 10.7 Case Study Planning Activities

Review the chapter discussion of facilitating groups.

- ☐ Review the four strategies described under preparation and select one that may be useful to implement Donna's meeting.
- ☐ Besides planning a strategy for the flow of the meeting, identify two additional factors that should be part of Donna's planning process. Describe why addressing them would be useful.

KEY TERMS

Brainstorm: technique to generate as many ideas as possible for consideration.

Emotion-Based: feelings and emotional benefits that drive the behavior change approach.

Facilitator: uses group processes to keep members focused on content and guide the flow of a meeting.

Ground Rules: set of guidelines for group members.

Group Counseling: using group support to find solutions for lifestyle problems.

REVIEW QUESTIONS

1. Describe three communication styles.
2. What guides the facilitator choices regarding content and focus of questions?
3. Identify four techniques for organizing a meeting for group decision making and problem solving.
4. What do emotion-based counseling materials emphasize?
5. Identify and explain four advantages of group counseling.
6. Identify and explain four disadvantages of group counseling.
7. Explain the six steps of the group process.

ASSIGNMENT Practice Group Counseling

Work with a small group of colleagues and plan to meet for three group sessions. During the first meeting, each person in the group should identify a healthy lifestyle behavior change. Possibilities include but are not limited to healthy snacking, eating breakfast, consuming more vegetables, late-night eating, reducing sodium intake, drinking more fluids, strength training, increasing aerobic activities, or practicing yoga or relaxation exercises. Having an actual issue rather than a role-play will make the experience more meaningful and realistic. Plan to set a behavioral objective around this behavior during the group session. Start by identifying a facilitator.

You may decide to rotate the facilitator position for each meeting to give opportunities for others to have experience with the facilitator's role. The following provides guidance for the facilitator to guide the flow of the first meeting:

First Session

1. The facilitator should provide guidance on the following for the first meeting:
 - ☐ Decide on meeting time and location.
 - ☐ Arrange chairs and reduce distractions.
2. Begin with introductions and provide an icebreaker. For example, "I am happy we all have this experience to work together. Let's begin by introducing ourselves and answering the following, 'What is your favorite healthy food?'"
3. Agree on ground rules. All members should indicate agreement on the final rules. See Exhibit 10.4 for guidance. Review each and add or subtract as the group sees fit. For example, "Before we begin discussing our desired health behavior changes, we need to set ground rules for our meetings. Here is a list of common ground rules. What do you think?"
4. After receiving an agreement on the ground rules, the facilitator may confirm the purpose of the group and ask others for their objectives regarding participation.

For example, "Obviously we are all here as part of an assignment so we can experience first-hand organizing and implementing a behavior change group. So learning something about the group process is a common goal. But I am wondering if there are other objectives individuals are hoping to obtain from participation." (A possibility may be to get to know colleagues better.)

5. Express your intention for the group process. For example, "My hope is to create an environment conducive to acceptance and open expression."
6. Have each person identify a desired health behavior change.

"We will begin by identifying a desired health behavior change goal. Because this is an assignment, our actual commitment to making a change may not be as high as the action stage, so let's also identify a readiness to make that change. On a scale of one to ten, with one indicating no change and ten meaning very ready, how motivated are you to making a change? Who would like to start?"

7. Explore experiences.

For example, "Has anyone else attempted or accomplished any of these desired behavior changes?"

"As with many people, you seem ambivalent about making a change. Can anyone offer suggestions?"

8. Experiment with some behavior change talk encouragements.

For example, for low confidence numbers, discuss simple or reduced goals. Ask the group for suggestions. "You chose a low number, so maybe the goal should be restated. Is there a smaller step that could be taken to work towards the goal?"

"Imagine the future—next fall for example—when you are actively involved in this new behavior. What is the best part of this new behavior? What helped you get to this point?"

9. For those ready to make a behavior change, use Exhibit 10.6 to guide the formulation of a desired behavior change plan. Be sure to give each member an opportunity to set a goal, if desired. Note that a plan could be to explore options, such as possible walking trails. Participants should not feel as if a goal would only be appropriate if they are ready to take action to implement the behavior change. Also the goals and plans should be viewed as an experiment to be evaluated after implementation and adjusted as needed.

10. Ending. Bring closure to the group. Summarize the high points of the meeting and ask others for their input.

For example (first meeting), "What was it like taking part in this group?"

"What has made the greatest impact on you from the time we have spent together today?" "What do you think has benefitted you the most from our meeting here today?"

11. Evaluation. As a group, review the group process.

a. As a group, review the questions in Exhibit 10.1 and the responses in Table 10.6. Were any of these used? How effective were they?

b. What were the high points of the group process?

- c.** What were the low points of the group process?
- d.** Was there a monopoly on talking? If so, what could have been done to change the dynamics of the group?

Subsequent Sessions

1. Welcome everyone back to the group meeting.

2. Provide an intention for the meeting.

For example, "My hope is to create an environment conducive to acceptance and open expression."

3. Ask individuals to explain their progress with their desired behavior change.

Example: "Let's review the progress with the desired behavior changes. We said the goal and plan would be an experiment to evaluate. Who would like to start?"

4. Explore dilemmas. As individuals explain difficulties in handling behavior change. Invite others in the group to explore the difficulties.

For example, "Can anyone relate to this issue?"

"How do you feel when that happens?"

5. Repeat Steps 8 through 11 of the first session.

Written Report of the Group Counseling Experience

Using skills to adeptly lead groups takes years of experience. If you were the facilitator, do not judge yourself too harshly if the progress of the group was rocky. After completion of the group meetings, write a report answering the following questions:

- 1.** Complete the group assessment questionnaire in Table 10.7 after each meeting. Explain what you perceived to be highlights of the assessment. Give examples.
- 2.** Describe how the first, second, and third meetings evolved. Be sure to give examples.
- 3.** Give two examples of questions or responses given by the group facilitator found in Exhibit 10.1 and Table 10.6. Identify the session in which each response was used and describe the circumstances of the response. What was the effect of each question or response?
- 4.** How helpful was the group process for clarifying your desired behavior change or for making your desired behavior change? Explain.
- 5.** If you were to repeat the group experience, give two suggestions that may have improved effectiveness.

6. Review the advantages and disadvantages of group counseling identified in this chapter. Did any of these apply to this group experience? Explain.

Answers to Exercise 10.4

1 = E, 2 = F, 3 = A, 4 = C, 5 = B, 6 = D

ADDITIONAL RESOURCES

https://www.youtube.com/watch?time_continue=52&v=bC2kG6hkhQc SixSteps Facilitation Video: A basic overview for organizing and managing a group.

www.iaf-world.org/ International Association of Facilitators: Click on “knowledge centre” for print and media resources.

<http://managementhelp.org/> Free Management Library: Many resources for working with groups.

Abusbha, R., Peacock, J., Achterberg, C. How to make nutrition education more meaningful through facilitated group discussions. *J Am Diet Assoc.* 1999; 99:72–76.

Corey G. *Theory and Practice of Group Counseling*. 9th ed. Belmont, CA: Brooks/Cole, 2015.

REFERENCES

¹Division of Cooperative Extension of the University of Wisconsin-Extension. Facilitation Skills: Effective questions; 2019, Available at: <https://fyi.extension.wisc.edu/wateroutreach/water-outreach-education/>. Accessed August 1, 2019.

²S. L. Lawson, A quick reference guide for facilitators. Ministry of Agriculture, Food and Rural Affairs, A Quick Reference Guide For Facilitators 2019. Available at: <http://www.omafra.gov.on.ca/english/nfporgs/95-073.htm>. Accessed August 1, 2019.

³J. M. Spahn, R. S. Reeves, K. S. Keim, et al., State of the evidence regarding behavior change theories and strategies in nutrition counseling to facilitate health and food behavior change. *J Am Diet Assoc.*, 2010; 110:879–891.

⁴E. Liskov, L. Mastroianni, and M. Moser, Group nutrition counseling is more efficient and equally effective as individual counseling in promoting weight loss prior to bariatric surgery. *J Acad Nutr Diet.*, 2012; 112:A-11.

⁵D. Renjilian, M. Perri, A. Nezu, et al., Individual versus group therapy for obesity: Effects of matching participants to their treatment preferences. *J Counsel Clin Psychol.*, 2001; 69:717–721.

⁶K. K. Helm, Group process. In K. K. Helm and B. Klawitter, eds., *Nutrition Therapy Advanced Counseling Skills*. Lake Dallas, TX: Helm Seminars, 1995:207–213.

⁷D. Raab and J. L. Tillotson, *Heart to Heart: A Manual on Nutrition Counseling for the Reduction of Cardiovascular Disease Risk Factors*. NIH Publication No. 83-1528. Washington, DC: U.S. Department of Health and Human Services, 1983.

⁸Pam McCarthy and Associates. Emotion Based Messages. Touching Hearts, Touching Minds. 2008. Available at <http://www.touchingheartstouchingminds.com/>. Accessed on February 9, 2019.

⁹M. Kellogg, *Counseling Tips for Nutrition Therapists Practice Workbook Volume 3*. Philadelphia, PA: Kg Press, 2014.

¹⁰M. Kellogg, *Counseling Tips for Nutrition Therapists*. Available at www.mollykellogg.com, Accessed on April 3, 2014.

¹¹L. Klein and B. Axelrod, Using the workbook in a group setting. In J. Wylie-Rosett and C. J. Segal-Isaacson, eds., *Leaders Guide: The Complete Weight Loss Workbook*. Alexandria, VA: American Diabetes Association, 1999:19–22.

11

Keys to Successful Nutrition Education Interventions



Learning Objectives

- 11.1** Explain the process of conducting a comprehensive needs assessment for a target audience.
- 11.2** Describe three nutrition education approaches used by researchers and health professionals.
- 11.3** Understand the importance of a theory-based approach in designing nutrition education interventions.
- 11.4** Use the three domains of learning in the formulation of goals and objectives.

I cannot teach anybody anything, I can only make them think.

—SOCRATES

As defined in Chapter 1, nutrition educators and counselors design interventions to influence knowledge, skills, and attitudes. This chapter explores the basic components of the nutrition education process for a target population, which could be an individual, group, or community. We will first review common locations for nutrition education interventions. Then, we will explore components (keys) of successful interventions: needs assessment, educational philosophy, theory-based interventions, and goals and objectives. Additional keys, learning strategies, audiovisual materials, and evaluation are covered in Chapter 12. To visualize the process, a model of the process is presented in Figure 11.1. We will journey through the keys by following an interactive and continuous case study. Discussion of each key is followed by a relevant component of the case study and related exercises to use and integrate core concepts. We will work together through this interactive case study to explore the development of a nutrition education intervention.

11.1 Nutrition Education Settings

Effective nutrition interventions occur in a variety of public, government, and commercial settings. Nutrition education programs provide opportunities to target multiple population groups, including significant people who control access to food choices in homes or

community settings. The following section describes some of the common locations for interventions:

- **Consumer marketplace:** Nutrition education initiatives can take place anywhere consumers purchase food items, such as grocery stores, on-line market sites, fast-food establishments, and restaurants. Surveys of consumers indicate a great deal of interest in purchasing healthy foods.¹ Using nutrition education to market food can be a win-win situation for consumers and retailers alike as long as the nutrition information is reputable. Interventions have included cooking classes, taste tests, coupons, videos, point-of-purchase labeling, large posters, interactive website games, and nutrition labeling on menus. Usefulness of marketplace nutrition education is illustrated by lower calorie intake of patrons of restaurants and fast-food establishments displaying point-of-purchase calorie information.^{2,3} Recognizing the benefits of marketplace education, Congress passed a national law in March 2010 requiring calories to be posted on menus, menu boards, and for food on display at restaurants, supermarkets, convenience stores, and other food service establishments with twenty or more outlets.⁴
- **Communities:** Nutrition education interventions in community settings may be a component of organized programs, such as congregate meal programs for senior citizens or the Women, Infants and Children Special Supplemental Nutrition Program for low-income pregnant mothers and young children. These community-based programs target specific population groups using media and interpersonal strategies to encourage healthy food behaviors. More recently, religious organizations have created health initiatives, including nutrition seminars, weight-loss groups, and fitness classes. Nutrition professionals may also become involved in the development and management of grassroots programs to improve nutritional health, such as food pantries, farmer's markets, soup kitchens, community gardens, or farm to table initiatives (programs dedicated to improving community access to nutritious, affordable, and locally grown food).
- **Health care settings:** Clinical settings can include physicians' offices, health maintenance organizations, hospitals, public health clinics, nursing homes, and various assisted-living facilities. In many of these sites, nutrition professionals must be registered dietitians and are likely to address treatment of disease as well as prevention. A variety of nutrition education initiatives can occur in health

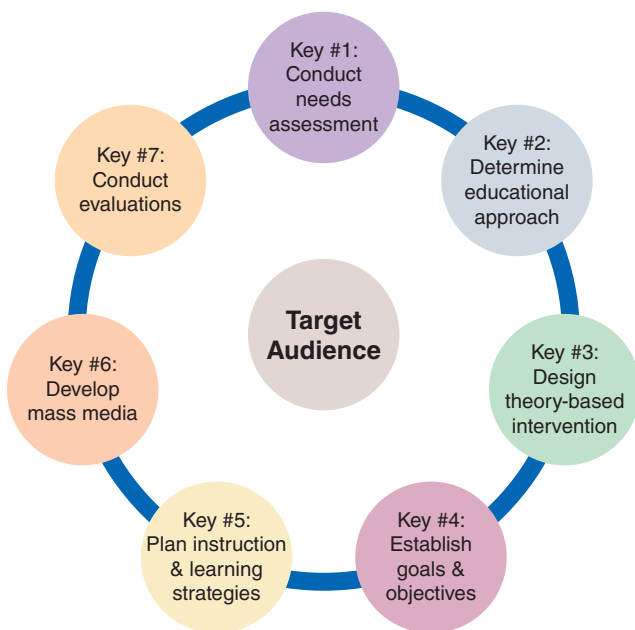


Figure 11.1 Nutrition Education Process Model
Source: Designed by author.

care sites. For example, a nutrition educator may be involved with a single client or a group of thirty. The focus of an intervention could be community outreach, outpatient services, high-risk patients, or families of patients. Employees of the facility may also be the target population for in-service training or worksite wellness education.

- **Worksites:** Nutrition education is often a component of corporate wellness programs. Such programs are mutually beneficial for employees and employers.⁵ Employees have a convenient location to pursue wellness activities, and healthier employees often translates into improved productivity, reduced absenteeism, and lower health care costs.⁶ Effective worksite programs have reduced cardiac risk factors and new-onset diabetes in employees.⁷ Nutrition educators provide information and organize programs for weight reduction and reducing risk of chronic diseases, such as high blood pressure, metabolic syndrome, diabetes, and heart disease.
- **Schools:** Nutrition education is an important part of a comprehensive school district health intervention targeting children, families, administrators, staff, and food service operations.^{8,9} School curricula may include a variety of learning strategies directed at improving nutrition knowledge, attitudes, skills, and diet-related behaviors.

11.2 Keys to Nutrition Education

Comprehensive reviews of nutrition education research reveal key factors contributing to effective nutrition education interventions.¹⁰ These factors provide a guide for all nutrition educators, whether planning a corporate wellness program or designing an education course for people with diabetes in a clinical setting. As illustrated in Figure 11.1, the following seven keys incorporate the major factors as a guide for implementing successful nutrition education interventions:

- | | |
|-------|--|
| Key 1 | Know Your Audience—Conduct a Thorough Needs Assessment |
| Key 2 | Determine Your Educational Approach |
| Key 3 | Design Theory-Based Interventions |
| Key 4 | Establish Goals and Objectives |
| Key 5 | Provide Instruction Planning and Incorporate Learning Strategies |
| Key 6 | Develop Appealing and Informative Mass Media Materials |
| Key 7 | Conduct Evaluations |

11.3 Keys to Success 1—Know Your Audience, Conduct a Thorough Needs Assessment

To ensure effectiveness of nutrition education interventions, a planning process is required. After a specific target audience is clearly defined, accurate and comprehensive data collection should be conducted as part of a needs assessment.¹¹ You need to know your audience! The following list provides categories and sources of information for a thorough investigation of needs. However, not all sources will be available, and time may be limited in certain situations. For example, you may be requested to provide a one-hour nutrition program for a substance abuse facility in your medical center in two days. Although time would be limited, doing what you can to explore the nutrition education needs of the group will likely improve the quality of your program. Discussion of planning for a large-scale community or national nutrition education interventions are beyond the scope of this book, which would require planning for sample size, data management, quality control, and statistical analysis.

Needs Assessment Categories

- **Health Needs:** Explore disease prevalence, mortality rates, disability issues, and physical symptoms of the target audience via a review of literature, results of national and local surveys, and findings from epidemiological studies and health records. Health can broadly encompass the physical, mental, nutritional, and spiritual wellness of an individual. Epidemiological data describe how a disease or problem is distributed in a population. For example, the prevalence and incidence (new cases) of osteoporosis are particularly high among older, petite, and sedentary women. In addition, secondary data from other health professionals working with the population group, or direct interaction with the target group, can provide valuable information about health needs.
- **Educational Needs:** An educational needs assessment includes an evaluation of knowledge, attitudes, motivational level, self-efficacy, and skills of the target population to plan an appropriate intervention. You also want to explore what your clients want to learn. Motivation to participate in an education intervention will be enhanced by addressing their interests. You may feel there are educational matters that are more important to address than indicated in your needs assessment. However, the needs of an educator can be incorporated into a program highlighting the concerns of the target audience.

- **Resource Needs:** Plans for nutrition education programs need to take into consideration factors that could enhance or hinder the adoption of new food behaviors. A needs assessment should include an evaluation of food availability, income, lifestyle factors, food prices, transportation resources, cooking facilities, social support, and availability of food assistance programs. The nutrition educator should also differentiate between a genuine lack of monetary need and the failure of the individual to efficiently use available resources. The evaluation should also include possible channels for promoting nutrition education, such as social media and traditional media outlets including newspapers, television, web-based resources, and radio stations. You may also explore possible collaborations with community or private organizations.
- **Developmental Needs:** To develop relevant nutrition education programs, planning needs to take into consideration the intellectual, social, emotional, and physical development of the target audience.¹² To be sure to address developmental needs and concerns of the learners in your target population, you should be able to answer the following questions: What is relevant and important to the learner at this life stage? What life events are affecting the target audience?

Developmental needs of children, adolescents, and older adults were covered in Chapter 9. Here we explore the needs of adults. Characterizing the adult learning process as *andragogy* (as compared to *pedagogy*), researchers¹³ have identified six major assumptions regarding adult learner needs:

1. Adults are *relevancy-oriented* and need to know why, what, and how. In contrast to children, who are expected to learn predetermined curriculum, adults are not likely to put in the time and effort unless they are convinced that a need exists. It is best for adults to discover gaps in learning between where they are now and where they want to be. For example, having an individual evaluate nutrient intake by comparing a dietary assessment to a standard, such as the Dietary Reference Intakes, will be more relevant than just handing an evaluation to an adult.
2. Adults are *autonomous* and *self-directed learners*. They need to feel free to direct themselves and take responsibility for their learning. Adults expect to be treated as independent, responsible individuals. Educators should solicit participants' perspectives on topics to cover.
3. Adults bring a vast amount of *experience* and *knowledge* into the learning environment. By designing programs that draw upon these factors, you increase the likelihood of providing an enriching and motivational intervention.¹⁴ Group discussions, chat rooms, and values clarification activities are possible techniques.
4. Adults are *practical*. For adults to be motivated to acquire new skills, they need to believe that the outcome of the educational experience will lead to the development of useful skills.
5. Adults are *task-centered* and *problem-oriented* learners, especially when learning is related to real-life situations. Activities such as menu selection for lower calorie entrees or learning to cook tasty foods without salt can be useful for specific adult populations.
6. Adult learners tend to be *intrinsically motivated*. Potent motivators for adults include internal pressures such as desiring an improved quality of life or increased self-esteem, as compared to extrinsic motivators such as higher salaries and promotions. Nutrition educators need to articulate to clients how the quality of their lives is likely to improve with adopting lifestyle changes.

11.4 Data Collection Methods

Various methods can be used to gather data, but choosing which ones will work best in your situation will depend on your target population and a realistic appraisal of your resources. Choice of assessment procedures will also be contingent on practical matters such as time and money. A simple questionnaire or blood pressure screening may be all that is practical in a given situation.

- **Review of Published Data:** Carefully explore prior research, government statistical data, census data, and even statewide morbidity rates, which can reveal useful information when properly extrapolated to the target audience. Evaluation of findings will provide insight regarding behavioral, psychosocial, and environmental factors relevant for planning a nutrition education intervention for your population group. This investigation will serve as a cornerstone for the design of your nutrition education intervention.¹⁵
- **Use Facility Records:** Clinical records can provide data on patient knowledge, dietary behavior, biochemical profiles, types of medication, and compliance issues with medical recommendations.
- **Interviews With Target Audience:** Face-to-face interviews with members of the target population, friends, family members, and coworkers can be the

most valid source of information about the educational needs of the target audience.

- **Interviews With Key Informants:** Professionals and staff personnel who consistently interact with the target population can be interviewed, as they are likely to provide the educational needs of the target audience. Employers, teachers, supervisors, health professionals, and clergy can be influential in explicating the knowledge, attitudes, and behaviors of the target audience.
- **Nutrition Assessments:** A variety of methods are available to assess quality of food intake including use of food frequency questionnaires, 24-hour recalls, food apps, and photos or written records of food intake. In addition, biochemical tests can be administered to identify nutrient deficiencies, anthropometric measurements can detect moderate and severe malnutrition, and a medical history and physical examination can reveal nutritional concerns. Refer to Chapter 5 for more information about these methods.
- **Qualitative Research:** Qualitative research involves the collection and analysis of non-numerical, unstructured information from sources, such as interview transcripts, emails, notes, feedback forms, photos, and videos. Data collection can come from in-depth interviews, behavioral observations, and focus groups. Focus groups usually consist of six to twelve people who represent your target population, and sessions last from one to three hours. Participants voice their concerns, beliefs, and experiences about an issue, product, or service in order to obtain insight about an intended nutrition education intervention. Analysis of data reveals common themes and relationships. For example, a qualitative analysis of the cultural interface of psychosocial variables related to obesity risk among Chinese Americans revealed a pressure to overconsume calories from both the American fast-food culture and Chinese elders who viewed plumpness as a sign of status.¹⁶ Qualitative research can reveal real-life issues and actual thinking patterns from the target members' point of view.
- **Quantitative Research:** Quantitative research collects and analyzes numerical data that can be measured for statistical significance. Methods include analysis of standardized surveys, systematic observations, experiments, census, or epidemiological data.
- **Survey:** A survey is a systematic investigation designed to describe and quantify characteristics of a target population. Collection of data can be obtained via questions by a trained interviewer in person or over the phone. Surveys can be self-administered questionnaires on paper or online. Questions may request information about individuals' past, present, or future behavior, and their underlying attitudes, beliefs, and intentions regarding the behavior under investigation. Surveys are relatively easy to manage and can be used to collect qualitative or quantitative data. Formal research surveys tend to involve a team of experts with knowledge in research design, statistics, epidemiology, public health, and nutrition. However, simple questionnaires developed for your population group can provide meaningful data. See Table 11.1 for a list of questions to ask yourself when designing a survey instrument. Pretesting the survey with select members of the target group and obtaining feedback would also help to refine the usefulness of the questionnaire.

Table 11.1 Questions to Ask When Designing a Survey

Is the survey valid and reliable? Will it measure what it is intended to measure, and assuming that nothing changed in the interim, will it produce the same estimate of this measurement on separate occasions?

Are norms available? Are reference data or population standards available for comparison against the data you collect about your target group?

Are the survey questions easy to read and understand? Survey questions must be geared to the target population and its level of literacy, reading comprehension, and fluency in the primary language. Having a readable survey is especially important if it is to be self-administered.

Is the format of the questionnaire clear? If the questionnaire is not laid out carefully, respondents may become confused and inadvertently skip questions.

Are the responses clear? A variety of scales and responses may be used in designing a survey. Some questions may require filling in blanks or providing simple yes or no or true or false answers. Others can ask respondents to rank-order their responses from "seldom to never use" to "use often to always." The trick when selecting such scales is to choose one that allows you to differentiate between responses but does not provide so many categories that respondents are overwhelmed.

(continued)

Table 11.1 Questions to Ask When Designing a Survey (*continued*)

Is the survey comprehensive but brief? Respondents should be able to complete a survey in a reasonable amount of time. If there are too many questions, respondents become fatigued. They may attempt to answer questions quickly and may even mark the same answer to most questions.

Does the survey ask “socially loaded” questions? Each survey question should be evaluated for how it is likely to be interpreted. Questions that imply certain value judgments or socially desirable responses should be rewritten. This is especially important when dealing with respondents from cultures other than your own.

Source: Adapted from Fallowfield, L. *The Quality of Life*. London: Souvenir, 1990, pp. 40–45.

CASE STUDY 11.1 Nutrition Education Intervention for a Congregate Meal Program

Case Study Procedure: This is an interactive case study. You will be given information about a target audience. As we explore the development of an education intervention for this group, you will be asked to perform various activities and make observations along the way.

Description: You are responsible for implementation of a nutrition education program for a government-supported congregate food program for seniors 60 years and older located in a suburban senior community center. Approximately 50 percent of the participants are white, 30 percent are African American, and 20 percent are Hispanic. The program provides hot, nutritious noontime meals each day of the week. The program services approximately 50 individuals, and generally there are about 40 in attendance.

Participants are often given leftover foods to take home. The program is required to offer a health education or socialization activity after meals. You will provide a nutrition education intervention on a weekly basis for four weeks. Program sessions are implemented after meals are served and last approximately one hour. There is also a nurse practitioner who provides health services, including blood pressure and urinary glucose screenings once a month.

CASE STUDY Keys to Success 1—Know Your Audience, Conduct a Thorough Needs Assessment

Following the Keys to Success guidelines, you have a clearly defined target group. Your first responsibility is to conduct a needs assessment. So let's go through the data collection process.

Health Needs

Start by reviewing available literature and government statistics regarding health issues for this population group.

Go to Chapter 9 of this text and review the section on older adults.

Discussions with the nurse practitioner indicate that approximately 60 percent of the participants are taking medications for high blood pressure, 50 percent have arthritis, 25 percent have diabetes, and 40 percent take medication to lower blood cholesterol levels. Using the Mini Nutritional Assessment tool (see Chapter 9), five participants scored in the “at risk of malnutrition” category, and no one scored “malnourished.”

Educational Needs

After assessing health status data, a short questionnaire was developed for congregate food participants to complete. In addition, ten participants volunteered to be part of a focus group to explore possible education interventions. Feedback indicated that participants wanted nutritional guidance for management of high blood pressure.

Resource Needs

Feedback from the focus group indicated that the most salient issues for participants were income, chewing difficulties, and arthritis, which reduced participants' cooking abilities. The community center has audiovisual equipment, Internet access, and a kitchen that would permit food activities.

Developmental Needs

Findings from the focus group indicated a desire for hands-on activities to address their developmental challenges, such as taste tests, price comparisons of desired food items, and cooking lessons.

Exercise 11.1 Case Study Keys to Success 1 Related Activities

1. Go to the Centers for Disease Control and Prevention site on Healthy Aging, <https://www.cdc.gov/aging/agingdata/index.html>. Explore Nutrition/Physical Activity/Obesity in your state. Record two findings in your journal.
2. Using the same website, www.cdc.gov/aging. Search for information regarding arthritis and high blood pressure. Record two findings for each condition in your journal.
3. Go to http://www.mna-elderly.com/user_guide.html, download a MNA tool and a user guide, and watch the MNA video. Work with a volunteer 65 years of age or older and complete a MNA Mini Nutritional Assessment. Record your findings in your journal.

11.5 Keys to Success 2—Determine Your Educational Approach

Your educational approach should provide you with an overall strategic vision and general direction for all components of your nutrition education intervention. A review of basic principles of educational psychology can provide a basis for determining your approach. They include a positive relationship between active learning and retention, positive reinforcement, relevancy of the topic addressed, and the characteristics of the learning environment.¹⁷ After you have conducted a needs assessment, tailor your nutrition educational approach to address the needs of your target population, availability of resources, and any guidelines of the organization sponsoring the intervention. As you develop your own philosophy for the target population, a review of prior guiding approaches of the nutrition education profession may be useful.

- **Focus on information dissemination:** For many decades, major government providers of nutrition education focused on increasing knowledge and relied on lecture, group discussions, and distribution of literature to increase nutrition awareness and “how-to skills,” such as food preparation, label reading, and identification of food groups and sources of nutrients.¹⁸ The assumption was made that simple dissemination of information leads to new knowledge, changes in attitude, and improved dietary behavior (knowledge-attitude-behavior [KAB] model). However, evaluation of this approach

showed that knowledge improved but little dietary behavior changed.¹⁹ Research documented that knowledge accounts for “4% to 8% of the variance in eating behavior, leaving 92% to 96% of the behavior to be accounted for by other influences.”²⁰ The other influences can be cultural, psychological, or even environmental barriers inhibiting dietary change. Increasing knowledge via dissemination of information continues to be a vital component of any nutrition education program and is essential for individuals with high levels of overall health concern and motivation to eat healthfully, but for others, it may be merely “information.”

- **Focus on behavior change:** More recently, as evidence emerged that lifestyle factors, including dietary, smoking, and physical activity behaviors, clearly contributed to heart disease, obesity, and cancer, a major shift in the concept of nutrition education occurred. The focus of highly funded educational interventions investigating the effectiveness of strategies to reduce risk of developing common chronic diseases shifted to evaluation of behavioral and cognitive strategies. See Chapters 2 and 6 for a review of these behavior change approaches. Analysis of nutrition education research studies revealed that many successful programs focused on behavior change as their primary goal.^{10,21} In addition, the most effective programs occurred when behavioral change strategies were derived from specific theories. These interventions specifically focused on psychosocial factors related to behavior, such as personal factors, motivators for change, and behavioral capabilities. These programs included activities, such as self-assessments; identifying healthful eating behaviors; establishing goals; learning cognitive, affective, and behavioral skills; and providing incentives and reinforcements.^{10,21} Additionally, research shows that incorporating skill development to achieve goals helps to facilitate behavior change in behavior-focused interventions.²²
- **Focus on the environment and public policy:** Presently, there is an increased recognition of the effect of the physical and socioeconomic environment on health behaviors.²¹ No longer is the individual considered the only component in the equation for behavior change.^{23,24} Analysts are increasingly viewing the obesity epidemic in terms of corrupted eating practices caused by a “toxic food environment” due to global economic development and modernity.²⁵ The paradigm of nutrition education is now often directed at social, political, and physical environments as well as the individual. In recent years,

CASE STUDY 11.2 Keys to Success 2—Determine Your Educational Approach

Your nutrition education approach should take into consideration the needs of the target audience, the educational setting, and the supporting institution or agency. When formulating your philosophy statements, consider the following questions:

1. What is the role of a nutrition educator?
2. What type of the learning environment do you want to provide?
3. What do you want to be the focus of your intervention—information dissemination, behavior change, environmental change, or some combination of the three?
4. What are the target audience's needs for learning?
5. What are your goals for the target audience?

Exercise 11.2 Case Study Keys to Success 2 Related Activity

Write a paragraph articulating your nutrition education approach for the case study. Refer to the nutrition education approaches described in this section.

there have been increasing attempts by policymakers to change eating environments, such as banning soft drinks in schools, regulating location of fast-food establishments, posting calorie information on restaurant menus, and encouraging purchase of foods from farmer's markets. Nutrition professionals are likely to focus on changing social norms, public policy, the food supply, and physical entities to support healthful behaviors. Strategies may be aimed at consciousness-raising and empowerment of individuals to encourage community activism to alter the structure of power in their localities to change food policies and make environmental changes.²⁶

11.6 Keys to Success 3—Design Theory-Based Interventions

Nothing is as useful as a good theory.

—KURT LEWIN

Nutrition educators use social, psychological, and behavioral theories to identify determinants of dietary behaviors, discover potential mediators of behavior change, and guide the design of an intervention.²⁷ Determinants of dietary behavior are the factors influencing food behavior, such as perceptions, beliefs, attitudes, and environmental factors.²⁸ A theory presents a systematic explanation of events or situations. In essence, theories provide road maps for understanding problems, developing interventions, implementing programs, and evaluating their effectiveness.

Researchers have documented that a major shortcoming of early nutrition education studies was the failure to base research on theoretical models.^{29,30} The studies did not have a clear theoretical base from which to elicit variables explaining the impact of nutrition education programs on knowledge, attitudes, and behavior. More recently, theory-based research has been used effectively.

Three categories of theory-based interventions describe how they are often used.

- A *theory-driven intervention* refers to theory elements that are systematically used to design, implement, and evaluate the intervention.
- A *theory-informed intervention* pertains to the partial use of theory elements to design intervention components.
- A *grounded theory intervention* involves the use and application of qualitative data derived from the target audience to guide the design of an intervention. Grounded theory is a research method underscoring the generation of theory from qualitative data analysis.³¹

Nutrition educators draw from a combination of contemporary models of individual, social, and environmental change to design an intervention. A useful theory provides assumptions that are logical and consistent with daily observations. Factors to consider when selecting a particular theory or combination of theories are the characteristics of the target population, the health problem under investigation, and which theories were used successfully in prior related research.³² Table 11.2 describes how key constructs from theories frequently used in nutrition education interventions can be applied to design programs. Please see Chapter 2 for more information about these theories and the Transtheoretical Model, which is also a commonly used approach for nutrition education interventions. Note that it is not unusual to select the most salient constructs and incorporate compatible variables from several related theories into a research study or a nutrition education intervention.^{21,33}

Table 11.2 Summary of Practical Applications of Theory-Based Constructs in Educational Settings

Construct	Theory-Based Strategies	Educational and Learning Strategies
Health Belief Model		
Perceived Susceptibility	Address health risks via persuasive communications to convey personal threat.	Provide personal testimonies, role playing, and visuals of vivid images of threat. Report striking statistical trends.
Perceived Severity	Incorporate impact and consequences of disease to convey personal threat.	Present real-life experiences and dramatic outcomes of disease.
Perceived Benefits	Information highlighting benefits of taking action to reduce threat of disease or condition.	Use persuasive messages. Engage in activities that depict personal gain and health benefits (for example, increased energy levels, enhanced appearance, blood cholesterol reduction).
Perceived Barriers	Reduce perception of barriers to engaging in health behavior.	Utilize brainstorming activities and group discussion of hindrances to behavior change. Identify strategies to overcome these barriers.
Cues to Action	Use relevant and effective cues or stimuli to prompt action.	Use apps or media-generated messages, billboard advertisements, public service announcements, magazine articles, stickers, and fliers.
Self-Efficacy	Increase self-confidence to perform health behavior via social modeling of behavior and guided practice for mastery of behavioral skills.	Provide step-by-step instructions and demonstration of behavior by credible role models. Engage in direct experience such as food preparation. Provide positive reinforcements on achievements and successful performance.
Theory of Planned Behavior		
Behavioral Intention	Increase desire and resolve to engage in health behavior.	Use hands-on worksheets analyzing advantages and disadvantages of behavior. Generate group consensus on goals for action. Analyze pros and cons of adopting behavior.
Attitudes	Reflection on personal feelings and predisposition to object or behavior.	Assess attitudinal predisposition and personal affect, and provide open discussion. Use emotion-based communication strategies.
Social Norms	Identification of salient others and their social norms and expectations.	View and analyze media-based advertisements and messages from social environment.
Social Cognitive Theory		
Behavioral Capability	Provide nutrition- and food-related knowledge and behavioral skills to perform behavior.	Use PowerPoint presentations, visuals, and demonstrations to teach food- and nutrition-related knowledge and skills to enact behavior. Provide step-by-step demonstration of food preparation and cooking skills.
Reinforcements	Provide internal and external reinforcements.	Provide rewards, gift certificates, verbal praise, and recognition for positive behavior.
Observational Learning	Learn to perform new behaviors via family, peer, and media models.	Incorporate positive role models to demonstrate and advocate healthful behaviors.
Social Support	Helping relationships and social network.	Foster supportive social environment. Encourage accountability partners and buddy systems among peers.

CASE STUDY 11.3 Keys to Success 3—Design Theory-Based Interventions

Now that you have completed the first two Keys to Success—a needs assessment and a written statement on your educational approach—you are ready to select an appropriate theory to use with the target population. After reviewing your needs assessment and educational philosophy, you determined that the Health Belief Model (HBM) may be a good fit for the group of older adults at the congregate site.

Exercise 11.3 Explore Health Beliefs

1. Review Chapter 2 and Table 11.2 for theories and constructs most often used in nutrition education interventions. The HBM was selected in the case study to design an intervention for the target population.
 - ❑ Give two reasons why you believe this selection was made. Compare your answer with the one found at the end of this chapter.
2. Explore the health beliefs of overweight and obese individuals. Go to the following website:
<http://www.mdpi.com/1660-4601/7/2/443/pdf>.
 Read S. Lewis et al., Do health beliefs and behaviors differ according to severity of obesity? A qualitative study of Australian adults. *Int J Environ Res Public Health*. 2010 Feb; 7(2):443–59; Epub 2010 Feb 3.
3. Record three facts or observations about the health beliefs of this population group.

established a model for public and private partnerships and significantly increased awareness of the importance of eating fruits and vegetables. Research findings of the program indicated that self-efficacy, knowledge of the recommendation, and taste preferences were the best predictors of fruit and vegetable intake behavior. Social marketing has become a major player in behavior change methodologies. In 2004, the Centers for Disease Control and Prevention inaugurated the National Center for Health Marketing with the mission to promote the public's health through innovative health marketing programs and services that are customer-centered, science-based, and high-impact.³⁷

Definition of Social Marketing

Social marketing is a systematic and strategic process for communication planning using client-centered methods to facilitate changes in behaviors, values, and attitudes.³⁸ Communication models have an eminent role in nutrition education, for they elucidate the process occurring between a message sender and the message receiver.³⁹ Social marketing is frequently described as:

The application of commercial marketing technologies to the analysis, planning, execution, and evaluation of programs designed to influence voluntary behavior of target audiences in order to improve their personal welfare and that of society.⁴⁰

11.7 Community Level and Planning Models: Social Marketing

Why can't you sell brotherhood like soap?
—G. D. WEIBE

Social marketing as a discipline is generally thought to originate in the 1970s, when Philip Kotler and Gerald Zaltman coined the term and advocated using commercial marketing strategies to “sell” ideas, attitudes, and behaviors for the common good.³⁴ Social marketing has enormous appeal. Clearly, commercial marketing has a major impact on consumer behavior. Commercial campaigns are usually heavily funded and supported by a large infrastructure. Social marketing programs are often led by nonprofit and government organizations so that funding and resources tend to be limited.³⁵ However, social marketing interventions have achieved notable outcomes. A prime example was the successful 5 A Day for Better Health program, which was one of the nation's largest public and private initiatives for increasing awareness and intake of fruits and vegetables.³⁶ This initiative

Basic Principles of Social Marketing

- Social marketing interventions use commercial marketing strategies to influence health behaviors. In both social and commercial marketing, the primary focus is on the consumer, but in social marketing, the objective is to learn what people want and need rather than to sell a product.
- Social marketers are behaviorally focused. The objective is to influence and change voluntary behaviors, not just increase awareness or knowledge.
- The ultimate objective of social marketing is to benefit the target audience or society and not the marketer. Social marketing is highly client-centered.

- The development of program strategies always begins with target audience members and their perceptions. Social marketers do not strive to target the general public. They specify the target audience as precisely as possible. This method of segmentation divides the audience into different subgroups that can be based on demographic, geographic, and psychographic characteristics. For instance, middle-aged male smokers residing in San Francisco, California, may be the focal point of an intervention to increase vitamin C intake via fruits and vegetables.
- To use a comprehensive strategy, social marketers incorporate the “marketing mix” into their program planning. The “four Ps” of the marketing mix are Product, Price, Place, and Promotion.^{35,41} Beyond the four Ps of traditional marketing, social marketing incorporates four additional Ps, referred to as Publics, Partnership, Policy, and Purse strings.⁴¹ See Table 11.3.

Table 11.3 The Marketing Mix

Four Ps of the Marketing Mix	
Product	The social marketing product is not necessarily a physical offering. The product can represent a continuum of tangible products (food stamps), services (nutrition counseling), and practices (eating a plant-based diet) or more intangible products (school food policy). To market a viable product, members of a target audience must realize they have a genuine risk or problem and believe that the product is a feasible solution. Having a product that is both attractive and appealing to the target group increases effectiveness of the intervention. Efforts are placed on finding a niche for the product and identifying benefits so the product is perceived as more appealing than the competition. The product should address the question, “What’s in it for me?”
Price	Price refers to the perceived costs of obtaining the social marketing product. The costs may be tangible (money) or intangible (time, effort, inconvenience, or risk of humiliation, or censure) in exchange for the product. Careful research must be done to determine the perceived costs and benefits so as to plan an intervention minimizing the costs and maximizing the benefits. Perception of greater benefits than costs is likely to encourage the consumer to “buy” the product.
Place	In commercial marketing, place often refers to the distribution channels in which customers are able to obtain the product. From a social marketing perspective, one could pose the question as: “Where is the behavior available to the target audience?” Nutrition messages should reach people in a place where they are making decisions about the behavior. For a program promoting low-sodium diets for hypertensive individuals, what are some venues to promote the message to the target audience? Perhaps viable settings would include doctors’ office waiting rooms, Internet websites, shopping malls, grocery stores, television news programs, and radio talk shows.
Promotion	Promotion is an integral part of the marketing mix. It focuses on strategies to convey the message to persuade the target audience. Promotional strategies generally integrate the other Ps, such as defining the product, emphasizing the benefits, and distributing in appropriate places. Promotional messages need to match the “target population preferences and information processing styles.” ³⁵ There are a variety of styles to choose from including emotional or rational appeals, use of humor, and social value emphasis, to name a few.
Four Ps of the Marketing Mix	
Promotion continued	<p>The objective is to create and sustain demand for the product. Promotion can involve various methods of communication, including the following:</p> <ul style="list-style-type: none"> • Advertising (social media sites, radio television commercials, billboards, posters) • Public relations (press releases, talk shows) • Promotions (displays, coupons) • Media advocacy (press events to promote policy change) • Special events (health fairs) • Entertainment (YouTube channels, puppet shows, skits, concerts)

(continued)

Table 11.3 The Marketing Mix *(continued)*

Additional Social Marketing Ps	
Publics	Social marketing programs include both external and internal groups. Examples of the external publics are the target audience itself, family members, physicians, or even policymakers and media professionals. Internal publics refer to those involved in approval or implementation of the social marketing program, including staff members and supervisors.
Partnership	Because of the complexity of social and health behavior change, collaboration with other organizations or groups within the community can increase resources and probability of a successful intervention.
Policy	A change in policy can be effective in supporting the desired behavior change. For example, legislative advocacy such as lobbying may be effective in promoting the sale of healthier foods in vending machines located in high schools.
Purse strings	Social marketing interventions can seek funding from a variety of sources such as foundations, donations, and governmental grants.

Application of Social Marketing

The Pawtucket Heart Health Program is an example of a notable short-term social marketing program focused on reducing blood cholesterol levels in adult residents in Rhode Island.⁴² Program staff developed a nutrition kit designed to help participants change their diets. Mass print campaigns were conducted at worksites, educational facilities, and religious institutions. Events were held in which screening, counseling, and referral evaluations were made available. The marketing strategy resulted in more than 10,000 individuals having their blood cholesterol measured over a two-year period and a significant reduction of blood cholesterol levels in the adult attendees.

Exercise 11.4 Application of Social Marketing

You are actively involved in a social marketing campaign aimed at increasing water consumption among high school gymnasts in New York City. Work in groups to provide applications of social marketing principles by addressing the following questions:

1. What is the product?
2. What are potential costs and barriers that the target audience might associate with increasing water consumption?
3. What are strategies to best position the product to minimize perceived costs associated with this dietary behavior change?
4. What are likely places where the message can be disseminated to the target audience?
5. What would be possible methods for promoting the health message among the teenagers?

Another notable social marketing campaign was “Control Your Diabetes. For Life.”⁴³ This program was sponsored by the National Institute of Diabetes and Digestive and Kidney Diseases and the Centers for Disease Control and Prevention to encourage individuals with diabetes to take action to control their blood sugar. Focus groups were conducted to determine the most effective message for various cultural groups, and a variety of print, radio, and television ads were used to reach millions of people in the United States diagnosed with diabetes.

11.8 Keys to Success 4—Establish Goals and Objectives

At this point in the planning process, you have a picture of the needs of your target population, a philosophy expressing your aims for an intervention, and a selection of one or more theories to guide your plan. You are now ready to set goals and objectives and develop generalizations for your nutrition education intervention. Clearly, they provide a road map for an intervention, driving the overall direction of the process, instructional strategies employed, resources used, and evaluation methods selected. They also help the learner focus and set priorities.

Goals

Goals can be referred to as broadly stated learner outcomes. They reflect global learner outcomes or the overall intent of an intervention or program and generally include “who” and “what.” For example, a nutrition educator might describe the goal of a wellness seminar in the following way: “Participants of this course will learn

effective dietary methods for weight management.” In this broadly stated goal, the “who” are the course participants, and the “what” is learning effective dietary methods for weight management. As compared to objectives, goals often express a long-range purpose and are more general. They provide overall direction, include all or most aspects of a program, and are usually not time-bound, measured, or observed.

Objectives

Objectives are specifically stated learner outcomes or descriptions of what the learner will be able to do after participating in a learning experience. These objectives are helpful in planning nutrition education, even for day-to-day instruction. Use the mnemonic SMART to define objectives: Specific, Measurable, Attainable, Rewarding, and Time-bound.

Writing meaningful objectives is an important skill of every educator. The ABCs of Objectives are a helpful guideline for writing clear objectives.¹² See Tables 11.4 and Figure 11.2. Be sure your objectives contain all three of these components. Incomplete objectives lack clarity and fluency, resulting in nebulous and confusing road maps.

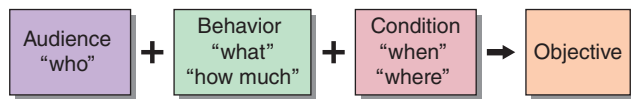


Figure 11.2 Components of Writing an Objective
Source: Designed by author.

Exercise 11.5 Evaluate an Objective

Identify the major components of the following objective:

After completion of this seminar, college students will identify three foods containing saturated fats on an evaluation form.

1. Audience _____
2. Behavior _____
3. Condition _____

Verbs

Goals and objectives should be worded in a clear, concise, and realistic manner. They can incorporate behavioral (measurable) and nonbehavioral (nonmeasurable) verbs. Goals are more likely to include verbs that cannot be measured quantitatively, such as *understood*, *know*, *appreciate*, *value*, *believe*, and *learn*. Objectives are likely to contain behavioral verbs such as *identify*, *recite*, *differentiate*, *classify*, *construct*, *write*, and *compare*. These verbs reflect behaviors that can be observed, measured, and evaluated.

Types of Objectives

We are now going to further develop the process of writing objectives by exploring three domains of learning, sometimes referred to as categories of learning outcomes.⁴⁴ As you develop your objectives and learning plan, the type of learning domain you choose will guide

Table 11.4 ABCs of Objectives

Example: “Upon completion of this program, older adult participants of a congregate meal site given four food labels will be able to identify high-fiber foods using government standards.”		
Category	Definition	Example
Audience	“A” stands for audience and identifies who is the target for a nutrition education intervention. Clearly define the learner.	In the example, the target audience (who) are older adult participants at a congregate meal site.
Behavior	“B” stands for behavior. What measurable and observable behaviors (what and how much) will the learners be able to do as a result of the program?	The behavior (“what”) is to identify high-fiber foods and the “how much” is four food labels.
Condition	“C” refers to the condition (when or where) by which the learners’ performance will be assessed. These conditions may be the resources used, location, limitations, or time imposed.	The condition “when” is after completion of the program. In the example, “when” adequately defines the condition.

selection of learning activities and assessments. To provide a comprehensive approach, aim to address all three domains:

- Cognitive: mental skills, such as *knowledge* or *think*
- Affective: feelings or emotions, such as *attitude* or *feel*
- Psychomotor: manual or physical *skills*, such as *do*

This taxonomy has given rise to shorthand versions of the three categories known as KSA (Knowledge-Skills-Attitude) or Do-Think-Feel. However, a full understanding of the domains requires an investigation of subcategories of the three domains of learning. The subcategories are arranged in a hierarchy, starting with the simplest and moving to the complex, illustrating growth of learning as individuals advance in their abilities.

Cognitive Domain

Cognitive domain is the “head” of a body that emphasizes thinking, knowing, understanding, and comprehending. Any descriptions related to cognitions reflect this domain, which may entail recalling, explaining, reasoning, creating, or making a judgment. The six major levels of the cognitive domain first developed by Bloom in 1956 are knowledge, comprehension, application, analysis, synthesis, and evaluation.⁴⁴ Anderson and

Krathwohl revised the six levels in 2001 to remembering, understanding, applying, analyzing, evaluating, and creating.⁴⁵ The cognitive domain levels originally developed by Bloom are still used today. Bloom’s six major levels are identified in Figure 11.3 and described in Table 11.5.

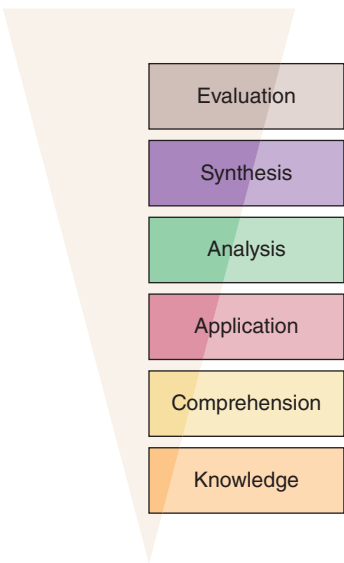


Figure 11.3 Levels of Cognitive Domain
Source: Designed by author.

Table 11.5 Cognitive Domain and Levels of Learning (Focus on Thinking)⁴⁴

Level and Description	Examples* and Key Verbs
Knowledge: Recalling, remembering, and recognizing data or information.	Examples: Name the water-soluble vitamins. Match nutrient deficiency disease with nutrient. Identify foods high in monounsaturated fats. Recite a food policy. Key verbs: cite, define, identify, label, list, match, memorize, name, recall, recite, recognize, reproduce, state
Comprehension: Lowest level of understanding; explaining; stating a problem in own words.	Examples: Describe the role of vitamin A in vision. Give an example of a high-fiber food. Explain functions of the lymphatic system. Report on the effects of binge drinking. Key Verbs: classify, describe, discuss, estimate, explain, give an example, infer, illustrate, interpret, paraphrase, reiterate, review, report, reword, summarize
Application: Using ideas, information, and principles in specific situations; applying knowledge to solve a problem.	Examples: Use an equation to calculate body mass index. Modify a recipe to lower caloric content. Demonstrate cooking techniques. Key Verbs: apply, change, compute, construct, demonstrate, discover, implement, manipulate, modify, operate, predict, prepare, perform, produce, relate, respond, role-play, show, solve, use
Analysis: Dissecting information into basic elements and organizing principles; reasoning; clarifying hidden meaning, distinguishing fact and opinion, and assessing degree of consistency.	Examples: Compare and contrast health disparities of two cultural groups. Analyze a health claim. Differentiate between microcytic and macrocytic anemia. Key Verbs: analyze, associate, break down, compare and contrast, deconstruct, determine, differentiate, discriminate, distinguish, experiment, plot, relate

(continued)

Table 11.5 Cognitive Domain and Levels of Learning (Focus on Thinking)⁴⁴ (continued)

Level and Description	Examples* and Key Verbs
Synthesis: Re-assembling component parts for new meaning; building a structure or pattern from diverse elements.	Examples: Design a weight reduction manual. Propose a nutrition policy. Develop a behavior change model. Summarize research findings of a nutrition education intervention. Key Verbs: build, create, combine, compile, compose, develop, design, devise, integrate, formulate, modify, organize, plan, propose, revise, summarize
Evaluation: Making a judgment, appraising the value of information, methods, or materials against internal and external standards.	Examples: Justify a new budget. Critique a research proposal. Evaluate the outcomes of a nutrition education intervention. Key Verbs: make a judgment, appraise, assess, compare, conclude, contrast, criticize, critique, defend, evaluate, justify

*Note, these are examples of how to use the verbs and are not fully developed objective statements.

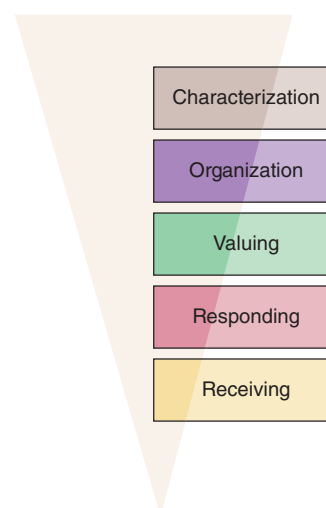
Source: Adapted from: Bloom, B. *Taxonomy of Educational Objectives, Handbook 1: Cognitive Domain*. New York: David McKay, 1956.

Affective Domain

The affective domain emphasizes how a learner feels or values a particular entity. It can be likened to the heart, reflecting one's attitude, feelings of acceptance or rejection, and levels of appreciation and valuing. The five categories of the affective domain are identified in Figure 11.4 and described in Table 11.6.

Psychomotor Domain

The psychomotor or behavioral domain involves action, control, and movement of the body. It is analogous to the “hands” of the body, relating to skill development and mastery. Such skills may include applying insulin injections, sautéing fresh vegetables, or even conducting a food experiment. The five subcategories of the psychomotor domain are found in Table 11.7 and Figure 11.5.⁴⁶

**Figure 11.4** Levels of Affective Domain

Source: Designed by author.

Table 11.6 Affective Domain and Levels of Learning (Focus on Feeling)

Level and Description	Examples* and Key Verbs
Receiving: Willing to hear or experience; attending; and becoming aware.	Examples: Listen to a presentation with respect. Concentrate while receiving directions. Read and take notes during a presentation. Notice the printed food labels. Acknowledge the importance of an ingredients list. Key Verbs: accept, acknowledge, be alert, concentrate, focus, follow, hear, listen, notice, perceive, read
Responding: Attending and reacting to the phenomenon; desire to be engaged in a subject or activity.	Examples: Contribute to class discussions. Practice safety standards in laboratory activities. Label toxic materials in laboratory. Seek clarifications of new food labeling guidelines. Key Verbs: agree to, answer freely, assist, care for, comply, contribute, cooperate, help, label, practice, react, read, recite, respond, seek clarification, tell

(continued)

Table 11.6 Affective Domain and Levels of Learning (Focus on Feeling) (*continued*)

Level and Description	Examples* and Key Verbs
Valuing: Developing attitudes; believing that the information or behavior is worthwhile based on an internal assessment and commitment; expressing personal opinion.	Examples: Propose a plan to reduce health disparities. Justify regulation to stop soft drink sales in high schools. Initiate labeling of food calories in fast-food restaurants. Initiate labeling of food calories in fast food restaurants. Express a need for physical training. Commit to the dietary regimen. Prefer low-fat dairy products. Key Verbs: adopt, argue, challenge, choose, commit, complete, confront, criticize, debate, desire, exhibit loyalty, express, follow, initiate, invite, join, justify, prefer, persuade, propose, select, share, show concern
Organization: Arranging values into priorities by contrasting them, reconciling conflicts between them and creating an internal value system to guide behavior.	Examples: Adapt to a low-sodium diet. Reveal interest in consuming whole-grain foods. Key Verbs: adapt, alter, adhere, adjust, arrange, classify, group, compare, contrast, defend, formulate, generalize, integrate, modify, order, organize, prioritize, rank, reconcile, relate, synthesize, reveal
Characterization: Internalizing a set of values; controlling behavior in a consistent and predictable manner.	Examples: Advocate principles of sustainable agriculture. Show consistent devotion to mentoring children. Key Verbs: act upon, advocate, influence, defend, display, influence, maintain, qualify, serve, show consistent devotion to, verify

*Note, these are examples of how to use the verbs and are not fully developed objective statements.

Source: Krathwohl, D. R., Bloom, B., Maisa, B. B. *Taxonomy of Educational Objectives, Handbook 2: Affective Domain*. New York: Longman, 1964.

Table 11.7 Psychomotor Domain and Levels of Learning (Focus on Action)⁴⁶

Level and Description	Examples* and Key Verbs
Perception: Using sensory cues, hearing, seeing, tasting, touching, and smelling to guide physical behavior.	Examples: Observe a food demonstration. Feel the texture of the fruit. Detect nonverbal communication cues. Key Verbs: detect, feel, hear, listen, observe, see, sense, smell, taste
Set: Becoming ready to act; reproducing an action through imitation or memory.	Examples: Assume a body stance for stretching. Station oneself beside the mixer. Key Verbs: achieve a posture, assume a body stance, place, hands, arms, feet, position the body, sit, stand, station
Guided response: Imitating and practicing a complex skill via trial and error. Performance of the task is usually imperfect.	Examples: Imitate dance movements. Repeat sanitizing procedures. Key Verbs: copy, duplicate, imitate, manipulate with guidance, practice, repeat, try
Mechanism: Increasing efficiency of learned responses; becoming habitual and proficient.	Examples: Demonstrate proper hand-washing procedures. Show dexterity in mincing foods. Key Verbs: complete with confidence, conduct, demonstrate, execute, pace, produce, show dexterity
Complex overt response: Performing skill or task automatically without flaw; marked by accuracy, speed, and control.	Examples: Master the art of French cooking. Excel in operating computer applications and software. Key Verbs: act habitually, control, excel, guide, master, perfect, perform automatically

*Note, these are examples of how to use the verbs and are not fully developed objective statements.

Source: Simpson, E. The classification of educational objectives, psychomotor domain. *Illinois Teacher*. 1967; 10:110–145.

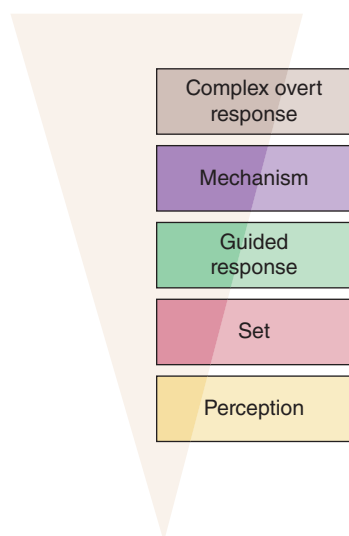


Figure 11.5 Levels of Psychomotor Domain
Source: Designed by author.

11.9 Generalizations

A tool used as an aid for organizing instruction is identifying meaningful **generalizations**. A generalization is a clear statement that is universally true. Generalizations are written as complete statements, representing universal truths that the learners will need to grasp and comprehend for an effective intervention. In our instructional plan, we will be relating generalizations to objectives. See Table 11.8 for guidelines for writing generalizations. There are three categories of generalizations:

- **Level 1:** The first level may be a statement of fact, definition, identification, or simple description.
Example: Cancer is a chronic disease.
- **Level 2:** A second-level generalization makes comparisons or shows relationships among ideas, expressing increased scope of the subject matter.

Exercise 11.6 Classify Objectives

For the following, identify the domain of learning (cognitive, affective, and psychomotor) and the level within each domain. Example: Upon completion of the course, participants will be able to identify the physiological functions of insulin on an objective evaluation.

(Cognitive domain; knowledge level)

1. After completing the electrolyte unit, students will be able to explain the differences between anions and cations.
2. Student counselors will listen attentively to clients' verbal and nonverbal cues.
3. After completion of the seminar, the participants will advocate lifestyle changes to reduce sodium intake.
4. During the diabetes learning unit, students will cooperate with their peers to enact a role-play scene.
5. High school seniors will modify a recipe to make it lower in sugar content.
6. Upon completion of the course, students will be able to formulate an effective strategy to reduce food waste.
7. Based on concepts discussed in class, students will imitate proper knife skills before starting the cooking lab.
8. During a debate, students will advocate for either conventional farming or sustainable organic farming.
9. In a written report, students will analyze the validity of a popular weight loss diet.
10. During a mock counseling session, students will execute effective nonverbal behavior.
11. Eighty percent of older adults will be able to state examples of foods high in lycopene.

Table 11.8 Guidelines for Writing Generalizations

- Aim for complete sentences with a maximum of 20–22 words.
- Express only one key idea or universal truth. Avoid using colons or semicolons.
- Use clear words that are technically and grammatically correct, free of ambiguous language.
- Avoid using value judgments with words such as "must," "should," "ought to be done."
- Use phrases that facilitate the expression of statements that show relationships. Some examples are as follows:
"contributes to," "is promoted by," "is related to," "is an integral part of," "is influenced by," "may be associated with," "may be determined by," and "may be developed by."

Exercise 11.7 Identify Level of Generalization Statement

Identify the following as a Level 1, Level 2, or a Level 3 generalization statement.

1. Chronic inflammation occurs in the human body because of oxidative stress.
2. Potassium is an intracellular cation.
3. Probiotics may contribute to a healthy gut microbiota.
4. Retinol is a form of vitamin A.
5. A large waist circumference may predict an individual's likelihood of developing metabolic syndrome.
6. Consumption of high levels of sodium is a risk factor for high blood pressure.

Exercise 11.8 Case Study Keys to Success 4 Related Activity

Go to the National Heart, Lung and Blood Institute site and click on In Brief: Your Guide to Lowering Your Blood Pressure with DASH: https://www.nhlbi.nih.gov/files/docs/public/heart/new_dash.pdf.

Review the DASH eating plan and record two findings in your journal.

Exercise 11.9 Explore TED Ed

The TED Ed website provides thousands of animated videos and video-based lessons organized by subject matter. Type in a topic of interest and review the resources that are displayed. In your journal, record two impressions, observations, or facts regarding your investigation.

CASE STUDY 11.4 Keys to Success 4—Establish Goals and Objectives

Goal: The broad-based goals for this nutrition education are to implement behavior change strategies and increase awareness of the role of dietary factors influencing blood pressure.

Objective	Domain and Level	Generalization
1. Upon completion of this program, older adult participants will identify the negative health consequences of uncontrolled hypertension.	Cognitive Domain Knowledge Level	Stroke is a negative health consequence of uncontrolled hypertension. Level 1 Generalization
2. Upon completion of this program, older adult participants will perceive the health benefits of following the DASH Food Plan.	Affective Domain Receiving Level	The DASH Food Plan contributes to the management of high blood pressure in older adults. Level 2 Generalization
3. Upon completion of this program, 80 percent of older adult participants will commit to making two dietary changes recommended by the DASH Food Plan.	Affective Domain Valuing Level	Developing positive attitudes toward the DASH Food Plan may be associated with the commitment to consume these foods. Level 2 Generalization
4. Upon completion of this program, older adult participants will express confidence in their ability to prepare DASH foods at home.	Affective Domain Valuing Level	Confidence in one's ability to prepare DASH foods at home may be promoted by repetition in food preparation activities. Level 2 Generalization

Example: Cancer risk may be affected by environmental exposure to toxins.

- **Level 3:** A third-level generalization is characterized by some form of explanation, prediction, or interpretation. *Example: An individual's intake of dietary fats may predict serum triglyceride levels.*

11.10 Instructional Plan

A written instructional (lesson) plan provides a roadmap for the educational session. See Table 11.9 for an example of a lesson plan. Without this detailed plan, the educator may not remember to use all the teaching

Table 11.9 Sample Lesson Plan Using Constructs from Social Cognitive Theory**Wonderful World of Berries****Duration:** One hour**Target group:** Middle school students enrolled in a science course**Overall goal:** To increase knowledge of the functions of phytonutrients in berries**Major concepts:**

- Flavonoids
 - Anthocyanins
 - Flavanols
 - Flavonols

Icebreaker or attention grabber: (5 minutes)

- Ask students to brainstorm different types of edible berries grown regionally.
- Write their responses on the board.
- Show actual samples or food models of a variety of berries (e.g., raspberries, elderberries, blackberries, cranberries).
- Briefly discuss creative ways that berries can be incorporated in meals.

Objectives and Learning Domains; Generalizations and Learning Experiences**1.** Upon completion of the session, the students will describe the functions of key phytonutrients found in berries.**Domain:** Cognitive domain—knowledge**Generalization:** Flavonoids are a large family of compounds synthesized by plants.**Learning Experiences:** (15 minutes)

Provide a PowerPoint presentation with colorful visuals depicting various berries and their physical characteristics. Address health benefits including anti-inflammatory and antioxidant properties stemming from phytonutrients found in berries. State that anthocyanins are most abundant in red, blue, and purple berries. The students will observe a food demonstration involving the preparation of a fruit salad containing berries.

Domain: Psychomotor domain—perception**Generalization:** A healthy fruit salad is prepared from natural, unprocessed ingredients.**Learning Experiences:** (15 minutes)

- A hands-on food demonstration by a peer leader (*observational learning*) will be presented involving the use of organic berries.
- Step-by-step procedures will be outlined to increase *self-efficacy* and *behavioral capability* among the students.
- A taste testing of the fruit salad will be provided.

Objectives and Learning Domains; Generalizations and Learning Experiences**2.** At the end of the intervention, students will value the consumption of multi-colored berries.**Domain:** Affective domain—valuing**Generalization:** Taste tests involving berries may be associated with a favorable attitude toward the consumption of the fruit.

(continued)

Table 11.9 Sample Lesson Plan Using Constructs from Social Cognitive Theory (*continued*)**Objectives and Learning Domains; Generalizations and Learning Experiences****Learning Experiences:** (10 minutes)

Provide a list of a variety of berries (e.g., blueberry, strawberry, blackberry, raspberry) with a Likert scale for students to rate their overall attitude toward consuming or trying the food items. Words or pictures of faces can be used to determine favorable versus unfavorable attitudes toward each food. For example:

Circle the picture that best describes your attitude toward consuming each food.

Raspberry

**Teaching aids and materials:**

- Food models of a variety of berries
- Fresh berries in season (e.g., blackberries, blueberries, raspberries, strawberries)
- PowerPoint projector and screen
- White board or large pad with markers
- Clear glass or plastic mixing bowls
- Mixing fork and spoon
- Small containers and spoons for tasting
- Online or physical jeopardy board with review questions of learning activities

Summary: Flavonoids consist of a large class of compounds synthesized by plants. They can be further divided into subclasses based on their chemical structure. The health benefits of dietary flavonoids are associated with diets that are rich in fruit and vegetables. Flavonoids have anti-inflammatory characteristics and are effective scavengers of free radicals. They have antioxidant properties and aid in the donation of electrons to stabilize reactive species of oxygen. Anthocyanins are most abundant in red, blue, and purple berries. Berries also contain other subclasses of flavonoids such as flavanols and flavonols.

Evaluation: (15 minutes)

The students will be divided into two opposing groups. An interactive jeopardy game will be conducted at the end of the session to assess students' knowledge of the information presented. For example, "This subclass of flavonoid is most abundant in red and blue berries" and "This process results from increased production of free radicals in the human body."

Assignment: An evaluative instrument will be distributed for students to monitor their daily intake of berries for a period of seven days (self-monitoring). Students will establish short-term goals to increase their consumption in the upcoming month (goal-setting).

techniques or review the necessary concepts, making last-minute adjustments difficult. In addition, the plan should be a clear outline for another instructor to implement. If you are working for an organization with multiple sites, there may be several educators implementing the instructional plan. Your instructional plan should provide answers for the following: Where are your learners going? How will they get there? How will you know when they have arrived?⁴⁷ A good plan should include the following essential components:

- **Target Audience:** This section should inform the reader of the intended developmental level of the instructional plan. Descriptive information could include age range or category; grade levels; ability levels; interests; attention spans; ability to work together in groups; prior knowledge and learning experiences; special needs or accommodations.
- **Specific Goals, Objectives, and Generalizations:** Aim to include multiple levels of domains of learning and generalizations. Lesson plans for school districts need to adhere to state or national curriculum standards. Enrich the lesson by incorporating cognitive, affective, and behaviorally based (psychomotor) objectives.
- **Prerequisites:** Depending on the intended audience, this may need to be specified to meet lesson objectives. For school-based settings, this may mean advanced math skills or basic chemistry principles. For community programs, you may need to specify certain abilities, such as mobility or visual acuity.
- **Duration:** How much time will be needed to complete the instructional plan? You may also wish to include estimated set-up time.
- **Teaching Materials and Resources:** Include a list of teaching materials needed for the lesson, such

as markers, posters, handouts, food models, PowerPoint presentation, Internet access, and a projector. This will also help instructors estimate time needed for organization based on their individual access to resources. These should be divided according to learning activity to ensure clarity.

- **Lesson Description:** This section includes a general overview of the lesson, including core subject, activities, and purpose. Questions that could be answered in this section include, What is distinctive about this lesson? Did your students like it? What categories and levels of Bloom's Taxonomy are addressed?⁴⁴
- **Lesson Procedure:** This is divided into two sections: Introduction and Learning Experiences.

Rule of Thumb #1:

Take into consideration learning objectives and content (a new skill, a rule or formula, a concept, fact, or idea, an attitude, or a value). Use the following to guide selection of techniques for planning your lesson and to complement your objectives:

Demonstration	⇒	list sequence of the steps in detail to be performed
Explanation	⇒	outline the information to be explained
Discussion	⇒	list of key questions to guide the Discussion

Source: Adapted from: Manal El-Tigi, Write a Lesson Plan Guide. https://www.asec.purdue.edu/lct/HBCU/documents/Lesson_Plan_Guide_ERIC.pdf. Accessed May 19, 2019

Rule of Thumb #2:

Be sure to provide students with opportunities to practice assessment material. Do not introduce new material during assessments. Also, do not ask higher level thinking questions if students have not had opportunities to engage in such activities during the lesson. For example, if you expect students to apply knowledge and skills, they should first be provided with the opportunity to practice application.

Source: Manal El-Tigi, Write a Lesson Plan Guide. https://www.asec.purdue.edu/lct/HBCU/documents/Lesson_Plan_Guide_ERIC.pdf. Accessed May 19, 2019.

Introduction or Establishing Set: Make a good first impression! You want to gain attention of participants and encourage motivation to learn. This introduction should be well prepared, age appropriate, and include a stimulating icebreaker that is relevant to the main theme of the program. Introduce yourself and the major goals of the educational session. Tie into past learning experiences, if appropriate. Some creative icebreaker activities may include telling a captivating anecdote, providing a brief self-assessment quiz, and sharing a novel fact, statistic, or even a humorous cartoon.

Learning Experiences: Learning experiences are the activities in which learners participate to achieve the specified behavioral objectives. They guide the educator with the implementation of the lesson plan and describe participant involvement. Be creative and use varied, mul-

tisensory learning experiences that are age appropriate and culturally sensitive. Include a time frame for each activity. This area should be clearly written so that any instructor can easily follow the flow of the experiences. El-Tigi⁴⁷ provides a Rule of Thumb #1 about this portion of the lesson plan.

- **Summary and Closure:** This summative portion of the lesson brings closure by formulating key generalizations about the content that was addressed. This closure allows the educator to reiterate major concepts and evaluate student learning. Recalling original learner objectives and intended outcomes can help bring closure.
- **Evaluation:** This is a vital component to assess whether or not the program met the outlined objectives. Were the goals and objectives fulfilled at the end of the session? Appropriate evaluation tools for nutrition education may include pre- and post-tests, interviews with the target audience, games to assess knowledge gained, biochemical or anthropometric measurements, or nutrient analyses of food records.
- **Assignment:** Assignments may be used as a method for evaluating learner achievement of program objectives, provide an opportunity for enriching the learning experience, and reinforce concepts covered in the lesson. Possibilities for assignments can include a small group project, experiment, observation, survey, or a written report on a relevant topic.

KEY TERMS

Generalizations: clear statements that are universally true.

Goals: broadly stated learner outcomes.

Needs Assessment: the collection of comprehensive data that may encompass health, educational, resource, and developmental needs of a target audience.

Objectives: specifically stated learner outcomes.

Social Marketing: application of commercial marketing technologies to promote the voluntary adoption of behavior that is beneficial to a target audience and/or society.

REVIEW QUESTIONS

1. What settings are relevant for nutrition education?
2. Describe the four needs assessment categories.
3. Compare and contrast quantitative and qualitative research methods for data collection.
4. Explain three types of nutrition education approaches used by various agencies.
5. Describe the importance of using theory in designing nutrition education interventions.

6. What are the major principles of social marketing?
7. What is the difference between goals and objectives as learner outcomes?

ASSIGNMENT Design a Nutrition Education Intervention

Choose and describe a target audience to design a nutrition intervention. Conduct a needs assessment using two different methods of data collection. Select a nutrition education approach and a theory congruent with your target audience. Formulate goals and objectives for a one-hour nutrition intervention.

Answers to Chapter Exercises

Exercise 11.3 The HBM was chosen because hypertension is prevalent and may lead to stroke and cardiovascular disease. Case study participants perceive high blood pressure as a health threat impacting their physical and social livelihoods. Additionally, the HBM centers on perceptions of benefits and barriers to adopting health behaviors, which are useful constructs for addressing the beliefs and concerns of the participants.

Exercise 11.5 1 = college students; 2 = identify three foods containing saturated fats; 3 = after completion of the seminar

Exercise 11.6 1 = Cognitive-comprehension, 2 = Affective-receiving, 3 = Affective-characterization, 4 = Affective-responding, 5 = Cognitive-Application, 6 = Cognitive-synthesis, 7 = Psychomotor-guided response, 8 = Affective-characterization, 9 = Cognitive-analysis, 10 = Psychomotor-mechanism, 11 = Cognitive-knowledge

Exercise 11.7 1 = Level 3, 2 = Level 1, 3 = Level 2, 4 = Level 1, 5 = Level 3, 6 = Level 2

ADDITIONAL RESOURCES

Contento, I. R. *Nutrition Education: Linking Research, Theory & Practice*. 3rd ed. Burlington, MA: Jones & Bartlett Learning, 2016.

Lee, N. R., & Kotler, P. *Social Marketing: Influencing Behaviors for Good*. 5th ed. Los Angeles, CA: Sage Publications, 2016.

Scott, D. *New Perspectives on Curriculum, Learning and Assessment*. New York, NY: Springer, 2016.

<https://fruitsandveggies.org/> Sponsored by Produce for Better Health; Provides videos and worksite wellness ideas

<https://health.gov/dietaryguidelines/2015/resources.asp>
A toolkit to educate patients, clients, and other professionals about the Dietary Guidelines.

<http://www.nutritionquest.com/> Dietary survey questionnaire development and validation

<http://medlineplus.gov/> National Nutrition Summit Information Resources

<https://www.cdc.gov/healthcommunication/> Center for Disease Control and Prevention Tools and templates are provided for the development of health communication and social marketing campaigns and programs.

<http://www.eduref.org/Virtual/Lessons/Guide.shtml>
Information Institute of Syracuse, Write a lesson plan guide.

<http://www.sneb.org> Society for Nutrition Education and Behavior

<http://socialmarketing.blogs.com> on Social Marketing and social change

REFERENCES

¹International Food Information Council. **2018 Food & Health Survey**. 2018. <https://foodinsight.org/2018-food-and-health-survey/>. Accessed May 17, 2019.

²R. A. Crockett, S. E. King, T. M. Marteau, et al., Nutritional Labelling for Healthier Food or Non-Alcoholic Drink Purchasing and Consumption. *Cochrane Database of Systematic Reviews* 2018. Available at: <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD009315.pub2/full>. Accessed May 18, 2019.

³C. A. Roberto, P. D. Larsen, H. Agnew, J. Baik, et al, Evaluating the impact of menu labeling on food choices and intake. *Am J Public Health*, 2010; 100: 312–318.

⁴Food Labeling: Nutrition Labeling of Standard Menu Items in Restaurants and Similar Retail Food Establishments, Final Rule, 79 *Federal Register* 71155; 2014.

⁵F. Isaac, A role for private industry: Comments on Johnson & Johnson's wellness program. *Am J Prev Med.*, 2013; 34: S30–S33.

⁶R. E. Soler, K. D. Leeks, S. Razi, et al., Task Force on Community Preventive Services: A systematic review of selected interventions for worksite health promotion: The Assessment of Health Risks with Feedback. *Am J Prev Med.*, 2010; 38:S237–S262.

⁷D. W. Byrne, L. S. Rolando, and M. H. Aliyu, Modifiable healthy lifestyle behaviors: 10-year health outcomes from a health promotion program. *Am J Prev Med.*, 2016; 51:1027–1037.

⁸Position of the Academy of Nutrition and Dietetics, Society for Nutrition Education and Behavior, and School Nutrition Association: Comprehensive nutrition programs and services in schools. *J Acad Nutr Diet.*, 2018; 118(5):913–919.

⁹A. L. Franks, S. H. Kelder, G. A. Dino, et al., School-based programs: Lessons learned from CATCH, Planet Health, and

Not-On- Tobacco. *Prev Chronic Disease*. 2007. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1893131>. Accessed May 17, 2019.

¹⁰I. R. Contento, G. I. Balch, Y. L. Bronner, et al., The effectiveness of nutrition education and implications for nutrition education policy, programs, and research: A review of research. *J Nutr Educ.*, 1995; 27:279–418.

¹¹I. R. Contento, *Nutrition Education: Linking Research, Theory & Practice*. 3rd ed. Burlington, MA: Jones & Bartlett Learning, 2016.

¹²E. J. Hitch and J. P. Youatt, *Communicating Family and Consumer Sciences*. Tinley Park, IL: The Goodheart-Willcox Company, 2002.

¹³M. S. Knowles, E. F. Holton, and R. A. Swanson, *The Adult Learner: The Definitive Classic in Adult Education and Human Resource Development*. 8th ed. London, England: Routledge, Taylor & Francis Group, 2015.

¹⁴E. A. Walker, Characteristics of the adult learner. *Diabetes Educator*, 1999; 25:16–24.

¹⁵P. M. Kettner, R. M. Moroney, and L. L. Martin, *Designing and Managing Programs: An Effectiveness-Based Approach*. 4th ed. Newbury Park, CA: Sage Publications, 2012.

¹⁶D. Liou and K. Bauer, Obesity perceptions among Chinese Americans: The interface of traditional Chinese and American values. *Food, Culture and Society*, 2010; 13(3):351–369.

¹⁷V. M. Chamberlain, *Creative Home Economics Instruction*. 3rd ed. New York: Glencoe McGraw-Hill, 1992.

¹⁸C. Moorman, A quasi experiment to assess the consumer and informational determinants of nutrition information processing activities: The case of the Nutrition Labeling and Education Act. *J Pub Policy Marketing*, 1996; 15(1):28–44.

¹⁹R. Whitehead, Nutrition education research. *World Rev Nutr Diet.*, 1973; 17:91–149.

²⁰P. L. Fleming, Nutrition education and counseling. In D. M. Paige, ed., *Clinical Nutrition*, 2nd ed. St. Louis: Mosby, 1988.

²¹I. R. Contento, Review of nutrition education research in the *Journal of Nutrition Education and Behavior*, 1998 to 2007. *J Nutr Ed Behav.*, 2008; 40:331–340.

²²T. Liquori, P. D. Koch, I. R. Contento, and J. Castle, The Cookshop program: Outcome evaluation of a nutrition education program linking lunchroom food experiences with classroom cooking experiences. *J Nutr Ed.*, 1998; 30(5), 302–313.

²³L. W. Green and M. W. Kreuter, *Health Promotion Planning: An Educational and Environmental Approach*. Mountain View, CA: Mayfield, 1991.

²⁴K. D. Brownell and K. E. Warner, The perils of ignoring history: Big tobacco played dirty and millions died. How similar is big food? *Milbank Quarterly*, 2009; 87(1): 259–294.

²⁵S. L. Gilman, *Fat: A cultural history of obesity*. Cambridge, UK: Polity Press, 2008.

²⁶P. Freire, *Pedagogy of the Oppressed*. New York: Continuum, 1970.

²⁷T. Baranowski, E. Cerin, and J. Baranowski, Steps in the design, development, and formative evaluation of obesity prevention-related behavior change. *Inter J Behav Nutr Phys Activity*, 2009; 6:6.

²⁸M. Conner and C. J. Armitage, *The Social Psychology of Food*. Buckingham, UK: Open University Press, 2002.

- ²⁹D. W. Johnson and R. T. Johnson, Nutrition education: A model for effectiveness, a synthesis of research. *J Nutr Educ.*, 1985; 17:S1–S44.
- ³⁰A. H. Gillespie and J. K. Brun, Trends and challenges in nutrition education research. *J Nutr Educ.*, 1992; 24: 222–226.
- ³¹B. G. Glaser and A. Strauss, *Discovery of Grounded Theory. Strategies for Qualitative Research*. London, England: Routledge, 1999.
- ³²K. Glanz, B. K. Rimer, and K. Viswanath, *Health Behavior and Health Education: Theory, Research, and Practice*. 5th ed. San Francisco, CA: John Wiley & Sons, 2015.
- ³³J. M. Spahn, R. S. Reeves, K. S. Keim, et al., State of the evidence regarding behavior change theories and strategies in nutrition counseling to facilitate health and food behavior change. *J Am Diet Assoc.*, 2010; 110(6):879–891.
- ³⁴P. Kotler and G. Zaltman, Social marketing: An approach to planned social change. *J Marketing*, 1971; 35:3–12.
- ³⁵N. R. Lee and P. Kotler, *Social Marketing: Influencing Behaviors for Good*. 5th ed. Los Angeles, CA: Sage Publications, 2016.
- ³⁶J. Heimendinger, M. A. Van Duyn, D. Chapelsky, et al., The national 5 A Day for Better Health Program: A large-scale nutrition intervention. *J Public Health Manag Pract.*, 1996; 2:27–35.
- ³⁷Improving health through health marketing. *Prev Chronic Dis.*, July 2006; 3(3), 1–3. Available at: http://www.cdc.gov/pcd/issues/2006/jul/05_0238.htm. Accessed April 12, 2019.
- ³⁸P. Kotler, N. Roberto, and N. Lee, 2002. *Social Marketing: Improving the Quality of Life*. Thousand Oaks, CA: Sage.
- ³⁹R. E. Petty and J. T. Cacioppo, *Communication and Persuasion: Central and Peripheral Routes to Attitude Change*. New York: Springer-Verlag, 1986.
- ⁴⁰A. R. Andreasen, *Marketing Social Change: Changing Behavior to Promote Health, Social Development, and the Environment*. San Francisco: Jossey-Bass, 1995.
- ⁴¹N. K. Weinreich, *Hands-On Social Marketing*. Thousand Oaks, CA: Sage Publications, 2010.
- ⁴²R. C. Lefebvre, T. M. Lasater, R. A. Carleton, et al., Theory and delivery of health programming in the community: The Pawtucket Heart Health Program. *Preventive Medicine*, 1987; 16:80–95.
- ⁴³J. Gallivan, M. Lising N. J. Ammary, et al., The National Diabetes Education Program's "Control Your Diabetes. For Life." campaign: Design, implementation, and lessons learned. *Social Marketing Quarterly*, 2007; 13:65–82.
- ⁴⁴B. Bloom, *Taxonomy of Educational Objectives, Handbook 1: Cognitive Domain*. New York: David McKay, 1956.
- ⁴⁵L. W. Anderson and D. R. Krathwohl, eds., *A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives*. New York: Longman, 2001.
- ⁴⁶E. Simpson, The classification of educational objectives, psychomotor domain. *Illinois Teacher*, 1967; 10:110–145.
- ⁴⁷M. El-Tigi, Teacher Education Module Series. Develop a Lesson Plan, Module B-4 of Category B—Instructional Planning (1977). Ohio State Univ., Columbus. National Center for Research in Vocational Education. ED149062— An ERIC Document. 2003, https://www.asec.purdue.edu/lct/HBCU/documents/Lesson_Plan_Guide_ERIC.pdf. Accessed May 18, 2019.

12

Educational Strategies, Technology, and Evaluation



Learning Objectives

- 12.1** Describe key elements for delivering effective oral presentations.
- 12.2** Identify steps for planning a demonstration.
- 12.3** Compare and contrast action-oriented learning activities.
- 12.4** Understand the process of developing mass media educational tools.
- 12.5** Describe selected examples of emerging technologies used in education.
- 12.6** Describe the basic components of nutrition education evaluations.

Tell me and I forget. Teach me and I remember. Involve me and I learn.

—BENJAMIN FRANKLIN

In Chapter 11, we reviewed the Keys to Success Nutrition Education Process Model and covered the first four keys setting the foundation for instructional planning and developing educational materials. We discussed the need to know your audience, determine an educational philosophy that fits their needs, select a theory or components of a theory that would best guide an intervention, and then set goals and objectives for the intervention. In this chapter, we review a variety of educational strategies that can be used to meet these needs. A good educational plan needs to integrate an evaluation component to monitor progress, revise strategies, and evaluate outcomes. The basics of the evaluation process are covered at the end of this chapter.

12.1 Keys to Success 5—Provide Instruction Planning and Incorporate Learning Strategies

Several factors need to be considered when selecting learning strategies. In addition to the educational factors related to your audience discussed in previous keys,

there are logistical factors that will influence your choice of strategies, such as the size of the group, number of meetings, location, and resources. For example, planning for an online virtual audience as compared to an in-person meeting will likely promote certain choices over others. No matter what techniques you employ, emphasis should be placed on engaging your audience by building an environment conducive to hearing your messages. If possible, consideration should be given to providing active learning opportunities. As illustrated in Figure 12.1, the impact of the learning experience provides better and more lasting outcomes as the audience becomes actively engaged. The following provides a synopsis of commonly used **teaching techniques**.

Presentation

Lecturing may be the oldest method of communicating information to groups and can be used in a wide variety of settings. Effective public speakers develop skills based on a solid foundation of knowledge, enthusiasm for the subject matter, technique development, and practice. Work at delivering a lecture with confidence and animation to generate enthusiasm for the presentation.

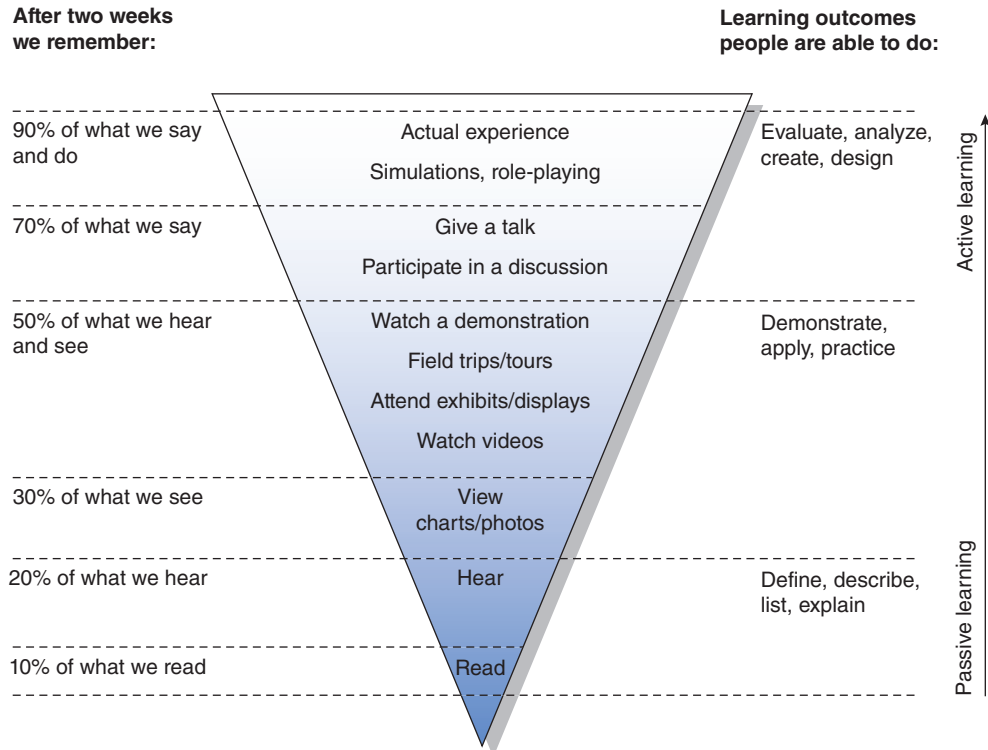


Figure 12.1 The Core of Experience: From Passive Learning to Active Learning

Source: From Boyle/Holben, *Community Nutrition in Action*, 7E. © 2017 Brooks/Cole, a part of Cengage Learning, Inc. Reproduced by permission. www.cengage.com/permissions

Some helpful pointers for organizing a presentation are given in Table 12.1 and for effectively delivering a presentation in Table 12.2. A list of common presentation behaviors that detract from the impact of the intervention are listed in Table 12.3.

Both short and long presentations have a learning curve. In the beginning (A–B) curiosity enhances attention and retention, in the middle (B–C) retention will drop, and at the end (C–D) a summary warning, “Note that we are coming to the end,” will encourage an upward swing in retention.

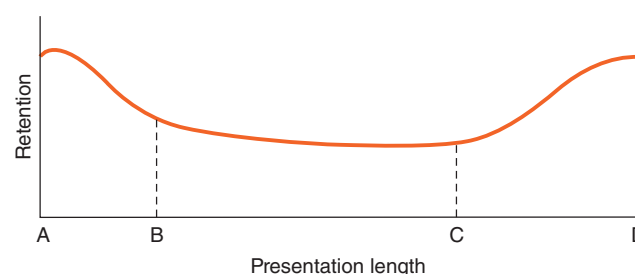


Figure 12.2 Presentation Learning Curve

Source: Morrissey, G. L., Sechrest, T. L., Warman, W. B. (1997). *Loud and Clear: How to Prepare and Deliver Effective Business and Technical Presentations*. Reading, MA: Addison Wesley Longman, Inc.

Table 12.1 Organization of a Presentation

Category	Description
Analyze your audience	As part of a comprehensive nutrition intervention, conduct a needs assessment. This assessment should provide a wealth of information, such as demographics, learning interests, and concerns about the topic you are presenting.
Tailor presentation to the audience	Narrow the scope of your topic. Be specific. For example: “Six Food Behaviors to Lower Cholesterol.” “Herbs—Fountain of Youth in the Cupboard?”
Be organized and focused	Have a clear goal and three to five defined objectives for conveying information. Information-intense programs will overwhelm the listener and reduce the learning impact. Be sure to emphasize important points at least three times, especially in the beginning and at the end. See the presentation learning curve in Figure 12.2. Include an introduction, body, and concluding remarks. Be sure to include appropriate transitions between major sections of the presentation. Stick to your outline.
Have an attention-grabbing introduction	You have two minutes to capture the attention of the attendees. Possible attention getters include the following: <ul style="list-style-type: none"> • Provide a startling fact • Involve the audience • Ask a question • Recite a quote • Provide a demonstration • Tell an anecdote or story • Comment on a current or local event
Answer two questions in the introduction	<p><i>Why are you up there?</i> “I’m here to help you find workable ways to control your blood sugar levels.”</p> <p><i>What’s in it for the audience? (What are your credentials?)</i> “As someone who has learned to control her own blood sugar levels and helped numerous others to do the same, I can help you.”</p>
Effective body	The goal (main idea) of your presentation should be supported with one or more of the following: <ul style="list-style-type: none"> • Provide examples—offer actual samples of people, places, objects, actions, conditions, or experiences • Give definitions—clarify an unfamiliar word or phrase

(continued)

Table 12.1 Organization of a Presentation (*continued*)

Category	Description
Effective body	<ul style="list-style-type: none"> • Furnish comparisons—show similarities, such as increases in obesity rates around the world • Provide contrasts—show differences, such as health disparities for various cultural groups • Present statistics—use charts or graphs to illustrate numbers • Provide testimony—use the words of a client or a renowned expert • Give research findings—provide results of research studies
Add “sparkle” periodically	<p>Keep audience interest by adding a “dash of spice” every few minutes to generate learner interest and retention. Possibilities include the following:</p> <ul style="list-style-type: none"> • Ask questions • Provide anecdotes • Cartoons • Jokes • Flags—“If you remember one thing from this presentation, I hope it will be . . .” • Props or costumes • Activities • “Real people”—videos, pictures, or quotes <p>Using humor can promote a relaxed atmosphere for learning, thereby creating a feeling of well-being and likelihood of retention of information.¹ However, care should be given not to use inappropriate jokes and not to overdo the use of humor so as not to make your topic appear irrelevant.</p>
Memorable ending	<ul style="list-style-type: none"> • Alert your audience that you are ending the presentation. Summarize objectives (key points). For example, “Now that we are coming to an end, let’s review the main points covered.” • Encourage a “call to action.” Give clear mental or behavior action steps. • End with an impressive quote, anecdote, or personal observation.

Adapted from Source: International Food Information Council Foundation. Sharpen your skills, the second P: Presenting. Foodinsight, www.foodinsight.org. 2009. Accessed February 19, 2014.

Table 12.2 Pointers for Delivery of a Presentation

Category	Description
Use vocal variety	<p>A dry, monotone delivery will dampen the most interesting topics. Minds will wander. Be lively and animated to spark interest. Your presentation should convey to the attendees that you are passionate about the topic. Use vocal variety to capture attention.</p> <p>Vary your pitch and volume. Everyone has a range in pitch. Women tend to speak in a high range and men in a low range. If there is little variation, the result will be a monotone delivery. You can also add interest by altering the volume of your voice. Both speaking softly or loudly can add emphasis to a point you wish to make. The tone of your voice should be in harmony with the emotional message you wish to convey. If a presentation lacks energy, a critic is likely to label the presentation as flat. The speed or rate of your speech can also vary to place emphasis. A faster rate illustrates that you have something exciting to say. A slower rate and a pause signal that the topic is important and encourages listeners to think that this is something important to remember.</p>
Speak naturally and clearly	<p>Pay attention to diction, pronounce words carefully, and avoid slang words, unless appropriate for your population group. Avoid vocal fillers such as, “ums,” “uhs,” “likes,” and “you knows.”</p>

(continued)

Table 12.2 Pointers for Delivery of a Presentation *(continued)*

Category	Description
Use engaging language and body behavior	A popular song title states, “When You’re Smiling the Whole World Smiles With You.” Attendees at a presentation are more likely to feel good about the experience if the speaker has a smile, conveys a positive attitude, and displays confident body language. Using the inclusive word “we” rather than “I” also tends to engage attendees.
Maintain eye contact	In Western societies, eye contact is a vital element in capturing attention and interest of learners. Your eye contact should be approximately 85% of the time. ² Looking away or focusing on lecture notes will distance you from the audience. If maintaining eye contact is uncomfortable for you, try establishing “nose contact,” or briefly looking at individuals’ noses instead of their eyes. ³
Move	Gestures such as hand movements and facial expressions provide visual stimulation for learners. Physical movement and mobility of the educator in a classroom setting has been found to elicit desirable behavior among learners. ⁴ Learners tend to be less distracted and focus on the educator when effective gestures are used.
Eliminate distracting mannerisms	Be careful that gestures and movements are used appropriately and creatively instead of becoming a distraction. Avoid annoying mannerisms and nervous habits such as gesturing wildly with the hands, rattling coins in pockets, or rocking on your heels.
Dress professionally	Your attire should not attract undue attention. Avoid clothing with unusual designs and accessories that are too bright or extraordinary.
Practice	Practice at least three times using a watch to time yourself. Practice in front of a mirror, in front of one other person, and then in front of several people. Ask for feedback.

Table 12.3 Presenter Never–Evers

Never give an apologetic beginning	For example, “I’m not sure I am the most qualified person to give this presentation.” “I am a bit nervous, so I hope you will bear with me.” “I didn’t have time to prepare.”
Never use wrong names	If you are thanking an individual or an organization, be sure you have correct names.
Never use gimmicks	For example, writing SEX in big letters on the board and then saying, “Now that I have your attention, we can begin.”
Never ridicule	Do not denigrate participants for their lack of knowledge or experience. Each person’s background should be appreciated. They should be encouraged to build upon their knowledge base to integrate your presentation concepts.
Never say you compressed your presentation to save time	Your presentation should be designed for your audience taking into consideration the amount of time allotted. If time runs short, simply provide what you can.
Never say you would have brought more materials if possible	Do not give excuses and indicate to your audience that they are missing out on something interesting. This will not please or inspire participants.
Never tell participants what you have forgotten	Participants will have no idea that you have forgotten something. Hearing this information will lead participants to think you are disorganized and encourage them to wonder if their attendance at your presentation is worthwhile.
Never read from a lengthy prepared text	Few people can read lengthy material and engage an audience. A particularly poignant short passage or poem would be appropriate. If participants need verbatim material, provide copies or a website to locate the information.

(continued)

Table 12.3 Presenter Never–Evers (*continued*)

Never supply sloppy handouts	Handouts should be clear, concise, and legible. Confusing or difficult-to-read handouts are not useful and are not likely to be read.
Never share a schedule that is not likely to be completed	If a program has been tightly scheduled and you are not likely to get to all the topics, give only a broad scope of what will be covered. Sparking interest in a particular topic leads to disappointment if time runs out and the program was not completed.
Never go past the scheduled time	If a lecturer goes over time, participants will start worrying about the end of the presentation rather than focusing on the presentation.

Source: Adapted from: Sharp, P. The Neverevers of Workshop Facilitation. Tools for Schools. National Staff Development Council; December/January, 2000.

Exercise 12.1 Evaluate Your Presentation

Arrange to give an eight-minute presentation to a group and videotape the proceedings. Use the lesson plan guidelines in Chapter 11 to design the presentation. Review the video and evaluate the impact of your presentation.

	Good	Average	Needs Work
1. Introduction captured interest.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Used illustrations or examples to explain concepts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Memorable ending, summarized main points, impressive conclusion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Connected to the audience: smiled, good eye contact, used “we” instead of “I.”	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Fluent, no distracting “and then” and “um.”	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Effective body language: no distracting habits, showed confidence, creative gestures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Added “sparkle,” used humor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Demonstrated enthusiasm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Varied pitch of voice.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Varied volume of voice.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Tone of voice conveyed appropriate emotion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Rate of speech was effective.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Explain what you believe was the most effective component of your presentation.			
<input type="checkbox"/> What would you like to do differently next time?			

Exercise 12.2 Examine I Have a Dream

Martin Luther King’s “I Have a Dream” speech on August 28, 1963, in Washington, D.C., has often been credited with being the most effective presentation of its kind. Go to YouTube, <http://www.youtube.com/watch?v=smEqnnkIfYs&feature=kp>, and watch the 17-minute speech and evaluate why this claim has been made.

Comment on the following:

1. Voice quality: pitch, tone, volume, rate
2. Content: Phrasing
3. What do you believe was the most effective component of his presentation?
4. Is there anything about his presentation that you would like to emulate in your lectures?

Discussion

A discussion is a goal-oriented interaction or conversation between individuals on a particular topic. When discussion is used for instructional purposes, it can lead to critical thinking, skill development, problem solving, and articulation of perceptions and opinions in a logical manner. Good discussions stem from careful use of questions. See Chapter 10 for a review of effective questions and group facilitation methods.

Demonstration

Demonstrations combine telling with showing. They can visually illustrate procedures, show techniques, or provide symbolic representations. A small demonstration may be inserted into a lecture, such as having a percentage of the audience stand to represent the percent of people in the world who do not have access to safe water. For demonstrations showing techniques, learners are often expected to imitate the procedures viewed or adapt it to a specific situation. Table 12.4 provides a guide for planning more complex demonstrations.

Visual Aids

According to an ancient Chinese proverb, “one picture is worth more than 1,000 words” Visual aids provide clarity and add vitality to a presentation. Compare these two approaches: (1) hearing about a Japanese tea ceremony or (2) hearing about a Japanese tea ceremony, watching a video clip, of a tea ceremony and seeing an actual Japanese teacup. You probably imagine the second approach to be more appealing. Visual aids also enhance an educator’s credibility. As the saying goes, “seeing is believing.” You may have a hard time believing that people really enjoy eating chocolate-covered mealworms or crickets unless you watch an episode of *Extreme Sweets*. Visual aids also promote learning by improving memory through visual stimulation.



VictoriaNovokhatskaya/Stock/Getty Images

As illustrated in Figure 12.1, seeing enhances learning outcomes and retention. Table 12.5 provides tips for using visual aids effectively in presentations.

The following lists some commonly used visual aids to enhance learning:

- **Blackboard or whiteboard:** The use of a blackboard is the most conventional way to provide written and visual aids in learning. More recently, whiteboards with a plastic or ceramic and magnetic surface have replaced the traditional blackboard because of their versatility for displaying charts, visual messages, and highlighting key points or concepts. A SMART Board is an electronic whiteboard that interfaces with a computer. Computer images can be displayed on the board via a digital projector and may be further modified by the educator. Because the whiteboard is touch-sensitive, notations, drawings, and text can be written in digital ink and saved on the computer and printed.
- **Flipcharts:** A flipchart consists of a large paper pad that is either propped on an easel or mounted on a wall. This device is especially useful when a whiteboard or overhead projector is not available. A flipchart is useful for brainstorming to record audience ideas. Instructors can either write notes on the flipchart during lectures or reveal a previously prepared sequence chronologically during a presentation. These techniques would be useful for explaining something such as the digestion of carbohydrates within the gastrointestinal tract.
- **PowerPoint Presentations:** PowerPoint presentations provide numerous visual enhancement options. This method has quickly replaced earlier lecture aids because of its professional appeal, versatility, and relatively convenient access. Esthetically pleasing slides can easily be designed on computers that include script, graphics, digital pictures, sound effects, and video clips. PowerPoint presentations can be saved, duplicated, or modified easily. In addition, individual slides can be effortlessly reordered to meet changing needs. Avoid information overload on any single slide. Use the KISS principle—keep it simple and straightforward. Incorporate key phrases or words on a given point as opposed to writing lengthy sentences. Consider using the 6x6 rule (no more than six words per line and no more than six bullet points per slide). Always ensure that the font size and style are visible to the last row of the audience. Use a simple font, Times New Roman or Arial, and no less than size 24. Do not use more than two font sizes per slide. Color combinations and highlighting should

Table 12.4 Steps for Planning a Demonstration

Category	Description
Define a topic	The topic should lend itself to be broken down into sequential steps.
Develop an outline	Include an introduction, major concepts to be covered, and concluding remarks. Consider audience participation, if appropriate. For example, if you are demonstrating food art with cabbage and carrots, give these items to all participants to prepare an individual piece of food art as you demonstrate. If the program is geared toward children, having them participate will increase enthusiasm and the likelihood of trying new foods.
Develop a sequential plan	Sequence the presentation to show the most logical way of demonstrating the procedures. Each step of your plan should indicate the amount of time and resources needed for the identified task.
Pre-preparation activities	Your plan should include a list of all resources that need to be gathered and activities that must be done before the actual demonstration. For example, cutting and mixing of ingredients often need to be done ahead of time.
Practice	Practice and perfect the demonstration by ensuring all equipment is in optimal working condition and properly positioned for audience viewing. Food laboratories may include an overhead mirror or projection to enable all learners to observe the entire demonstration. Have others watch your practice demonstration to comment on the clarity of your explanations and effectiveness of your visuals. For food demonstrations, use clear bowls and have samples of the ingredients in their packaging or fresh produce on display as props.
Plan an attractive ending	Arrange for an attractive final product. For food demonstrations, provide samples of the final product for the audience to taste.

Table 12.5 Tips for Using Visual Aids

Category	Description
Use the visual for clarity	Use the visual to enhance an objective of your presentation. Do not get side-tracked into dwelling on various components of the visual aid. Speak to the audience, not the prop.
Integrate into presentation	Do not wait until the end of the presentation to show visuals. Integrate them into the body of your presentation to stimulate interest and enhance understanding of concepts. Normally keep them hidden until ready to use.
Be sure the visual is viable	Consider all of the support you need to use the visual aid, such as refrigeration, electricity, and assistance of someone else.
Use only a few best examples	Too many visuals will over stimulate and distract focus from the main concepts.
Test electronics	Test electronics at least a day beforehand so you know how to use the equipment and allow enough time to make alterations if needed.
Order visuals	If you have a number of visual aids, put them in order. Consider labeling them with numbers.
Rehearse with an assistant	If using your visual aid requires assistance from another individual, rehearse and provide clear instructions with a cue sheet.

Source: Write-out-loud.com. How to Use Props. <http://www.write-out-loud.com/howtouseprops.html>. Accessed April 13, 2019.

be visible and aesthetically pleasing. A mix of text and graphics create visual appeal. Avoid too many special effects—animations, colors, and sounds. These can be distracting. Do not use more than three colors per slide, and keep your theme consistent throughout your presentation. When lecturing with PowerPoint presentations, be sure to provide adequate time for viewers to read or jot down slide information.

- **Recordings:** YouTube, CD, or DVD recordings can be used to add interest to presentations. Relevant video clips, TED-ED animations to the list Ted Talks, movies, news reports, or musical recordings can be played during educational sessions to highlight certain points. For example, clippings of a documentary can be shown during a nutrition class to depict the potential impact of fast-food eating on the health of Americans.

Action-Oriented Techniques

When planning an education intervention, consideration should always be given to possible ways to actively engage the audience. As indicated in Figure 12.1, participation and interaction stimulate interest, increasing acquisition and recall of content.⁵ Action-oriented techniques encourage learners to take responsibility for their own learning by exercising a level of control over what is learned. Selected examples of action-oriented learning activities are reviewed here.

- **Debate:** A debate occurs when two opposing groups present affirmative and negative perspectives on a controversial issue. For example, college students may debate the issue of genetically modified foods as it pertains to the safety of consumers and the environment. The critical analysis deepens understanding of the subject and is likely to influence attitude and possibly behavior. A number of useful strategies have been developed for including informal debates in the classroom. See resources at the end of the chapter. In a formal debate, prescribed rules and procedures are followed that dictate the frequency, length of time, and actual members that may speak.
- **Role-playing:** In role-playing, participants engage in a spontaneous acting out of a scenario, displaying the emotional reactions of individuals in a specific situation. For example, students can engage in a role-play of peer pressures that exist when socializing at parties. Participants are provided brief descriptions of the roles and how they should be played without using a script or rehearsing lines. A debriefing should follow immediately after a role-play to enable learners to analyze what transpired.

- **Educational Games:** Games used in an educational setting are designed to teach, reinforce or introduce specific content, or develop a skill. The outcome of this activity should depend largely on the knowledge or skill a learner is expected to achieve. Younger and older audiences generally can benefit from this teaching technique, adding excitement to learning by stimulating problem solving, critical learning, and competition among members. Digital games are a 21st-century version of game-based learning.⁶ Kahoot! is a digital game resource that provides instructors the platform to create quizzes and surveys. Pear Deck has numerous options for engaging students that can be integrated into Google slides. In addition, simulated game shows such as “Nutrition Jeopardy” can be incorporated into educational settings. Textbook publishers and online educational and commercial sites offer numerous web-based games to reinforce learning, such as PBS Kids.
- **Simulations:** Simulations contain components of both role-playing and games. These activities are a symbolic representation of a particular life experience. Learners are provided a role and interact in a scenario under specific guidelines. Participants are required to make decisions which will, in turn, influence the entire system. Simulations provide learners the opportunity to experience the complexities and emotions of real life in an environment guarded from actual risks and consequences. A popular simulation used to explore cross cultural communication difficulties is Barna. This is a card game in which participants unknowingly play with different rules. Increasingly computer and online simulations are offering real-world learning experiences.
- **Laboratories:** In a laboratory, learners are guided through a planned, supervised practice experience. Students are provided the opportunity to apply a principle, investigate a phenomenon, or to practice a process or skill. For example, a food laboratory lesson could include cooking with lower sodium via the use of herbal seasonings.

Technology-Based Techniques

The quickly changing world of technology has created a multitude of exciting options and challenges for educators.⁷ With the availability of computers, wikis, blogs, Twitter, YouTube, virtual worlds, mobile devices, and electronic books, there appears to be a learning revolution, and the opportunities sometimes seem endless. Taking courses online has become commonplace, and a variety of software is available for developing and

managing web-based courses. The challenge is to stay abreast of technology changes, keep up with technologies commonly used by millennials and more specifically, the Net Geners (born in the 1980s) and iGeners (born in the 1990s), and Generation Z (born in the 2000s) to find ways to effectively incorporate them into learning experiences. Each generation is likely to choose their preferred technologies and how they are used. For example, iGeners are more likely to communicate with cell phones for text messaging, instant messaging, accessing Facebook, Instagram, and other social networks, and video conferencing than by talking.⁷ Increasingly, educational programs are using these resources. In addition to an abundance of technology opportunities, there are many easily available educational resources on the Internet, termed “finger-tip knowledge.”⁸ At no other time in the history of the world has there been easy access to so much information. As a result, there is less need to memorize and a greater need to guide students in finding and evaluating credible resources.

Incorporating web-based strategies and mobile technologies to promote nutrition education has become

increasingly popular in community, clinical, and academic settings. See Table 12.6 for examples of technology-based resources, Table 12.7 for examples of web-based nutrition education activities, and Table 12.8 for smartphone and dietary tracking apps.

Learning Domains and Strategies

An evaluation of a comprehensive review of the literature shows that there are advantages to using a variety of educational strategies as opposed to only one method.¹⁴ Your lesson plan should use several approaches to accommodate diverse learning styles and to influence all three learning domains discussed in Chapter 11. All the educational strategies discussed in this section address educational objectives of the cognitive domain, and some also attend to affective and psychomotor domains. In targeting the affective domain, educators should seek to influence learners’ attitudes, beliefs, and values. Particularly useful are interactive strategies such as debates or role-playing that may lead to greater self-awareness and commitment to values and evaluation of beliefs. Choose activities that include

Table 12.6 Examples of Technology-Based Education Resources

Video clips	The Internet is full of free video clips that can be used to demonstrate an activity or a concept.
WebQuest model ⁹	A WebQuest is an inquiry-oriented lesson format in which learners actively use the Internet as a resource to gain different knowledge from tasks and subtasks designed around the major themes of a topic. Educators can use this technology as an assessment tool of students’ acquisition of knowledge and their ability to apply higher-order thinking skills.
Podcasting	Podcasts are a series of audio or video files that can be downloaded on a computer or a digital music player (MP3 player) and listened to at a convenient time. A study showed that using podcasting with specific educational goals focusing on self-efficacy was an effective method to encourage weight loss and higher intakes of fruits and vegetables among overweight adults. ¹⁰
Wireless text messaging	Wireless text messaging has been used to provide reminders. In a randomized controlled trial, wireless text messaging reminders improved adherence in taking daily vitamin C tablets. ¹¹
Social networks	Social networks such as Facebook and LinkedIn provide opportunities for group learning and communication with individuals who may have knowledge about resources on a topic a person is exploring. For example, while interacting with others on a social network site, an individual may be directed to web resources to aid in memorizing the glycolysis pathway, such as a YouTube video of a rap song of the pathway, a parody of the pathway using the song “Sugar Sugar,” or an open university website that provides a lecture about the pathway.
Software apps (for iPad, iPhone, and Android phones)	In the age of smartphones, software apps provide a new way to engage individuals in health and nutrition. ¹² With the guidance of a nutrition professional, people can use apps to learn how to eat healthy, track physical activity, and lose weight. The Academy of Nutrition and Dietetics provides reviews for various diabetes management, weight loss, and gluten-free eating apps that are currently available for use. ¹³

Table 12.7 Examples of Web-Based Nutrition Education Activities

Goal	Description
Provide a global perspective	The Internet provides a vast number of global resources. Projects could be designed to take advantage of exploring them. For example, a project could be to compare and contrast dietary analysis and dietary guidelines of various countries, such as the United States MyPlate, Health Canada, Dietary Guidelines for Australians, and Japanese Dietary Guidelines.
Provide a real audience	Motivation to produce high-quality projects increases when there is expectation that the project will be placed on an actual online site, such as YouTube. Include opportunities on these sites for global feedback regarding these projects, such as comments and discussion boards.
Encourage the use of multiple mediums	Allow students to create projects using a variety of media including video, music, images, animations, art, collages, dioramas, and PowerPoint, as well as written stories. For example, an audio podcast could be combined with downloaded visual images of a topic to include in a presentation.
Consider online journaling	In classrooms, online journaling can often be done through course support websites such as Blackboard and Canvas. Individuals or groups working together to make a common behavior change could use a social network site to document their progress, pose problems, and offer support to each other.

Table 12.8 Smartphone and Web-Based Dietary Tracking Apps

My Fitness Pal	Tracks diet, exercise, calorie intake, and goal progress The food database includes over 5 million different foods Includes a barcode scanner to track foods Includes a recipe calculator Connects with a variety of fitness apps
Lost It!	Creates recommendations for personalized calorie intake based on a person's height, weight, age, and goals Tracks food intake by searching a database, scanning a bar code, or snapping a picture Includes a food database with a wide variety of foods including restaurant dishes Tracks daily and weekly calories, exercise, and goal progress Provides the ability to sync data with other fitness apps and devices
Fatsecret	Tracks food intake by searching a database, scanning a bar code, or snapping a picture Tracks, calories, macronutrients, exercise, weight Provides healthy recipes, meal ideas, and daily and monthly summaries Provides the ability to sync data with other fitness apps and devices Can share and interact with a professional of your choice
Fooducate	Tracks food intake and the quality of the food you eat, exercise, and calorie intake Foods are given a letter grade from A to D as well as a short summary of its nutrition information. If the food scores poorly, the app provides healthy alternative suggestions Provides diet tips and recipes Allows personalized tracking such as avoiding MSG and allergy information

(continued)

Table 12.8 Smartphone and Web-Based Dietary Tracking Apps *(continued)*

Healthout	Helps to find healthy restaurant dishes and quickly order in over 500 cities Allows user to refine their searches using calories, nutrition tags such as vegan and heart healthy, and different types of cuisines. For mobile use only
ShopWell	Foods are scored based on how well they match user’s individual needs Includes nutrition information and personalized food scores Helps user to learn which foods are appropriate for their food lifestyle User can connect to grocery store loyalty cards for food recommendations Includes a mobile scanner for grocery stores to identify health ratings of over 350,000 products Based on user preferences, each food receives a score from 0 to 100 Conforms to various user health goals such as attention to food allergies
eaTracker	Includes options to log and track food and exercise Aids in planning meals Analyzes recipes and keeps track of progress Includes easy and useful conversions between metric units and U.S. customary
Verywell Fit	A recipe nutrition calculator Allows users to type in ingredients to create a Nutrition Fact panel that can be saved Has registered dietitians on staff for assistance

Exercise 12.3 **Selecting Appropriate Teaching Techniques**

You are approached by the principal of a local high school to design a one-hour nutrition workshop targeting breakfast consumption among 100 high school freshmen. You are provided access to an auditorium equipped with state-of-the-art technology. Work with a small group of colleagues and select three teaching techniques to maximize effectiveness in reaching this target audience. Be sure to address all three learning domains—cognitive, affective, and psychomotor. Note the following in your journal:

- ☐ Describe each strategy.
- ☐ Identify what objective or objectives are being addressed for each strategy.
- ☐ Identify what domain or domains of learning are being targeted for each strategy.

opportunities to verbalize opinions, justify actions of others, or prioritize values. Keep in mind that attitudinal changes usually require longer periods of time and are not likely to alter in a single educational intervention. Demonstrations and experiments that include hands-on

activities can address behaviorally based or psychomotor objectives.

12.2 **Keys to Success 6—Develop Appealing and Informative Mass Media Materials**

Mass media can rapidly deliver persuasive and powerful health messages to a large audience. The sponsors of the messages are often commercial enterprises, news programs, consumer groups, and government or professional organizations. Information from mass media is often the public’s major source for acquiring knowledge about health issues. However, the desire of news programs to entertain may encourage selection of novel issues that apply to a limited section of the population. In addition, the need to rapidly transmit news often does not allow full coverage of the complexity or controversial aspects of an issue. Nonprofit organizations use mass media to deliver nutrition information, but the impact tends to be limited due to restricted resources. The nutrition information from commercial advertising tends to be heavily biased with the primary goal of making a profit.¹⁵ Children and adults are bombarded

with numerous media messages every day. To create a balance, schools have begun to include media literacy in their curriculum, providing guidance for analyzing, evaluating, and creating media.

Nutrition professionals can also help bring credible information to the public. Opportunities may arise involving traditional print, audio, and audiovisual media as well as newer web-based venues. Federal agencies and national voluntary organizations may use public service campaigns to promote healthful behaviors. Many health campaigns use multiple outlets to deliver messages including social media, websites, television and radio public service announcements (PSAs), public service transit ads and bill-boards, posters, pamphlets, and special events. PSAs are usually 60-, 30-, or 10-second radio or TV announcements that provide novel information promoting activities or programs geared toward community interests and needs. They are most useful for creating public awareness and sensitivity to a health problem and for reinforcing a new health behavior.

Developing Audio and Audiovisual Messages

If you are involved in a large campaign, there is likely to be a team member who is a communication and media specialist. If this is the case, understanding the basics of developing media messages is likely to make your involvement more effective. On a smaller scale, you may have a greater portion of the responsibility developing audio messages or audiovisuals for a facility website or an in-house education program, such as health education videos that run continually in the lobby. Note that at this stage in planning a nutrition intervention, you have already defined your education philosophy, goals, and objectives. If you decide that audio or audiovisual materials are appropriate and realistic for your intervention, use the Message Development Model,

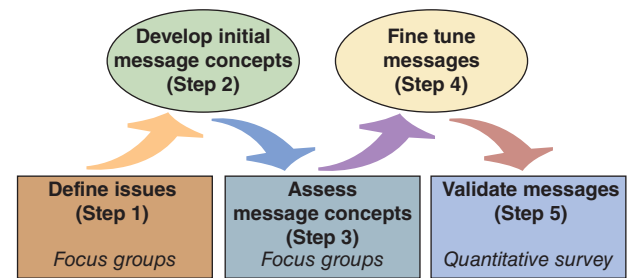


Figure 12.3 Message Development Model

Source: The consumer message development model. Adapted from Wirthlin Worldwide, Chicago, Ill; 1998.

presented in Figure 12.3 and outlined in Table 12.9, to guide the process.

Developing Print Materials

Good writing skills are an asset for nutrition professionals and can enhance your credibility and visibility. Opportunities are likely to arise requiring high-quality written materials to influence target audience behavior. You may have opportunities to write for newspapers, magazines, or websites. Nutrition educators are likely to be involved in the development of fact sheets, pamphlets, direct mailings, or brochures. Few people are born with innate writing skills. With practice, you can sharpen your skills to write communications that are “ICIC,” which stands for Interesting, Clear, Informative, and Concise. Sounding out this acronym provides what you hope your readers feel after reading your material: “I see, I see!”¹⁶ There are four stages for writing “ICIC” communications:

- Stage 1: ASOAP Analysis
- Stage 2: Outline and Collect Resources
- Stage 3: Write the First Draft
- Stage 4: Polish Your paper

Table 12.9 Five Basic Steps of the Message Development Model

Step	Description
1. Define the issue	<ul style="list-style-type: none"> Define the central issue (information) you want to communicate. What are the characteristics of the target audience? Find out what motivates your audience. Focus on demographics, family structure, hobbies and interests, hopes for the future, concerns and biases, life goals, and preferred recreational activities. Is your target audience aware of the issue? Why or why not? What do they think, feel, and believe about the issue? Are their perceptions and attitudes toward the issue positive, negative, or neutral? Why? How does your target audience respond to the issue? Are they doing anything about it? Why or why not? One-on-one conversations or focus groups are often used to obtain this information.

(continued)

Table 12.9 Five Basic Steps of the Message Development Model *(continued)*

Step	Description
2. Develop initial message concepts	<ul style="list-style-type: none"> • Analysis of material received in Step 1 should provide clues regarding behaviors to be encouraged to address the health issue and how to approach your audience. • What specific action(s) or behavioral change(s) do you want your target audience to implement? • What potential incentives may inspire your target audience to adopt the behavior change(s)? • What potential barriers could inhibit your target audience from adopting the behavior change? • Develop the message. See Table 12.9 for presentation styles and Exhibit 12.1 for factors to consider when developing audio and audiovisual materials. • Does the language carry a positive tone? Is it “empowering” for the audience to make changes?
3. Assess message concepts	<ul style="list-style-type: none"> • Pretest message concepts with selected members of the target audience. Assess comprehension, personal relevance, appropriateness, and weak and strong points. In focus groups or personal conversations ask questions such as: <ul style="list-style-type: none"> <input type="checkbox"/> “What does this message mean to you?” <input type="checkbox"/> “Do you find this message motivating?” <input type="checkbox"/> “Does this message speak to what you value in life?” <input type="checkbox"/> Assess self-efficacy. Do you believe you can make this behavior change? What would you need to make this behavior change?
4. Fine-tune message	<ul style="list-style-type: none"> • If your target audience did not interpret your message the way you intended, go back to Step 2. However, you will likely need to make only a few changes. Use the following questions to evaluate your message: <ul style="list-style-type: none"> <input type="checkbox"/> How receptive was your test audience to the message? (Positive, negative, or neutral reaction; to what degree?) <input type="checkbox"/> Did the test audience interpret the message the way you intended? Why or why not? What are the connotations they derived from the message? <input type="checkbox"/> Which part of the message was clear or unclear? Will minor changes improve the meaning or should the message be completely rewritten?
5. Validate message	<ul style="list-style-type: none"> • This is the same step as Step 4 but applied to a wider audience. In advertising and marketing, telephone surveys and questionnaires are often used to reach a large number of individuals. • However, if your resources do not permit a large quantitative survey, you can use an informal survey to assess the impact of your message.

Source: Adapted from International Food Information Council Foundation. Message making 101: Creating consumer-friendly messages. Food Insight, www.foodinsight.org. 2009. Accessed April 13, 2019.

Table 12.10 Categories of Intervention Presentation Styles

Category	Description
Testimonials	A credible spokesperson or a celebrity can be attention-getting. Consider using physicians, organization leaders, or trustworthy role models to convey the importance of your health message.
Slice of Life	This is a dramatization or a simple story within an everyday setting that can help the audience to relate to your message.
Demonstration	Provide an audiovisual demonstration of the desired health behavior, especially if skills must be taught.

(continued)

Table 12.10 Categories of Intervention Presentation Styles (*continued*)

Category	Description
Animation	Animation is eye-catching for young children and adults alike. Cartoon characters can demonstrate desired behaviors (for example, eating fruits and vegetables), and present abstract or sensitive issues (for example, eating disorders) in a nonthreatening manner.
Humor	Proper use of humor can be memorable and heart-warming. Beware of offensive, stale, or corny jokes that serve no purpose.
Emotion	Emotional approaches to message presentation can range from warm and caring to fear and anxiety arousing. Be careful to pretest your messages and product so that the appropriate emotional tone is conveyed.
Use of music	Including a musical clip or overture can depict a mood you are trying to create. Use music judiciously so that it will not be distracting or compete with the message.

Source: U.S. Department of Health and Human Services. Making Health Communication Programs Work. NIH Publication No. 04-5145; 2001.

Exhibit 12.1 Tips for Developing Audio and Audiovisual Messages

- Present information in a direct manner by using relevant and compelling language.
- Use an attention-getter and identify the main issue in the first ten seconds.
- Recommend a practical, easy-to-implement strategy, and if possible, demonstrate the health behavior.
- Provide specific meaningful reasons for changing behaviors. For example, indicate benefits of taste, convenience, fun, culture, health benefits, or feeling good.
- Keep messages simple with one or two key points.
- Use a memorable slogan, theme, or sound effects to aid recall.
- Select an appropriate presentation style (for example, slice of life, testimonials, and so forth).
- Generally, a positive rather than negative appeal is more effective.
- Offer choices for making behavior changes. Choosing an option is motivational.
- If there is an action recommended, show the telephone number, website, or address on the screen for at least five seconds, and provide verbal reinforcement.

Source: U.S. Department of Health and Human Services. Making Health Communication Programs Work. NIH Publication No. 04-5145; 2001.

Exercise 12.4 Evaluate Public Service Audiovisuals

Go to YouTube to view New York City's "Pouring on the Pounds Campaign" videos: Man Eating Sugar and Man Drinks Fat. In your journal, answer the following:

- ☐ Describe your reactions to the videos.
- ☐ How effective do you believe these audiovisuals are in educating and altering behavior?
- ☐ Which categories of presentation styles presented in Table 12.9 were used in the audiovisuals?
- ☐ What tips for developing audiovisuals in Exhibit 12.1 were evident in these audiovisuals?

STAGE 1: ASOAP Analysis Begin your preparation with an ASOAP analysis. ASOAP is an acronym for Audience, Subject, Objective, Angle, and Publication and provides a clear direction for your writing.

- **Audience.** Based on your needs assessment, you should have an understanding of your target audience's demographic profile (age, gender, ethnicity, religious affiliation, socioeconomic status, and so on) and psychographic profile (lifestyle, goals, values, beliefs, biases, and so on). Your investigation should have led you to understand what your target audience needs to know, what they want to know, and what type of message is likely to inspire them.
- **Subject.** You need to thoroughly research the subject matter. Identify reliable resources, and be sure to ask a colleague familiar with the topic to review your draft.

Exercise 12.5 Investigate Message Development Model

Read the following articles focusing on the Message Development Model:

Borra, S., Kelly, L., Tuttle, M., Neville, K. Developing actionable dietary guidance messages (Dietary fat as a case study). *J Am Diet Assoc.* 2001; 101:678–684.

Hoffman, E. W., Bergmann, V., Shultz, J. A. Application of a five-step message development model for food safety education materials targeting people with HIV/AIDS. *J Am Diet Assoc.* 2005; 105:1597–1604.

In your journal, provide the following:

- ☐ Select one quote from each article related to the Message Development Model. Write the quotes in your journal; identify the source and page number.
- ☐ For each quote, write how this information was significant for developing a consumer message.
- ☐ Explain how you may be able to apply what you learned to developing your own consumer messages.

- **Objective.** You should clearly understand what you are trying to accomplish. Readers generally expect answers to the following questions: “Why are you giving this to me?” “How does this affect me?” “What am I supposed to do?” Is your primary objective to inform, stimulate interest, or change behavior? An evaluation of the stages of change of your target audience can indicate the motivational stage of a majority of your target population. If you found a large portion in the precontemplation stage, your objective could be to stimulate interest with a novel or persuasive message.¹⁷
- **Angle.** Your needs assessment is likely to provide guidance as to what are motivating factors for your target audience. Tapping into motivating factors has been shown to increase attention and integration of reading about nutrition information.¹⁸
- **Publication.** Develop printed materials that are intended for the audience to understand, accept, and use.¹⁵ The publication source may define a particular style and format. In some instances, government guidelines or institution policy may require a certain template.¹⁹ Choose an appropriate serious or light tone based on your audience norms and expectations.

STAGE 2: Outline and Collect Resources An outline is a roadmap for writing your paper. It provides guidance for keeping you on target and ensures that you do not leave out important information. You should not consider your outline written in stone. As you begin to write your draft and review your resources more closely, you may find the need to make alterations.

STAGE 3: Write the First Draft You should not expect your first writing to be a final copy. Table 12.11 contains factors to consider for effective writing.

STAGE 4: Polish Your Paper Depending on your resources, there are various degrees of evaluation that can be done to assess effectiveness and readability. Ask colleagues to evaluate the document for the following:²¹

- Spelling, grammar, and punctuation
- Appropriate dating, numbering, and consistency
- Visual appeal
- Effectiveness and consistency of text enhancements
- Odd breaks or anything that reduces clarity

Ask individuals of your target audience to evaluate your document for comprehension, appropriateness, and readability. A formal protocol testing requires interviewing from three to nine people and asking them the meaning of each sentence of the document.²¹

Application of Emotion-Based Approach

Any training that does not include the emotions, mind and body is incomplete; knowledge fades without feeling.

—ANONYMOUS

Emotion-based messages have been found to be particularly persuasive for influencing nutrition behaviors. Advertising and marketing research has shown that people are more likely to make behavioral decisions in response to emotions rather than rational thought.^{24,25} The Women, Infants and Children (WIC) *Touching Hearts, Touching Minds* developed educational materials and counseling approaches geared toward parent-identified emotional “pulse points” to guide clients toward making behavior changes to improve eating and physical activity behaviors.²⁶ The emotion-based printed materials used photographs instead of cartoon-style graphics focusing on messages that healthy nutrition behaviors lead to feelings of joy and pride. See Figure 12.5 for an example of their emotion-based material as compared to traditional WIC materials.

Table 12.11 Factors to Consider for Effective Writing for the Public

Sentence Structure	
Unnecessary words	Unnecessary words clutter your message and reduce comprehension. ²⁰ Limit most sentences to eight to ten words. Examples: Less effective: Past experience with incorporating adequate vitamin D in the diet has shown us that adequate levels of vitamin D in the diet may help reduce risk of developing osteopenia and osteoporosis. More effective: Vitamin D may help reduce risk of bone loss.
Simple	Simple sentences rather than complex increase health information comprehension, especially if loaded with technological jargon. ¹⁹ Examples: Complex: Cyanocobalamin is an important component in the Krebs's cycle for the metabolism of carbohydrates, fats, and proteins. Simple: Vitamin B12 is necessary for the breakdown of food for energy.
Active	Use an active voice rather than a passive voice whenever possible. Examples: Passive: The athletes were taught the basics of carbohydrate loading by the nutritionist. Active: The nutritionist taught the athletes the basics of carbohydrate loading.
Personal and direct	Address your audience directly. Use <i>we</i> , <i>you</i> , and <i>us</i> to provide a personal message. A conversational style is easier to read. Examples: Indirect: Controlling your blood sugar can be accomplished. Direct: You can control your blood sugar.
Specific	When giving advice, be clear and specific, not general. Avoid inconsistencies within the messages caused by controversies among scientists, government agencies, and industry groups. Examples: Indirect: Eat more fiber. Direct: Eat three servings of whole grains each day.
Analogies	Use comparisons familiar to your audience. Examples: Less effective: One portion of meat is approximately four ounces. More effective: One portion of meat is approximately the size of a deck of cards.
Readability	Reading level is defined as the number of years of education required for a reader to understand a written passage. Generally, information for the public should be written at the fourth- to eighth-grade level. ²¹ A third- to fifth-grade level is more appropriate for low-literacy readers. Too often this factor has not been taken into consideration when developing health education materials, even the 1990 Dietary Guidelines. ^{22,23} A number of readability formulas can be found on the Internet or word processing programs such as Microsoft Word. Exhibit 12.2 and Table 12.12 review SMOG procedures, a commonly used readability formula.
Paragraphs	
Main idea first	Readers expect the main idea to be the first sentence of a paragraph. Reading comprehension of health information increases if paragraphs follow expectations. ²¹
Organization	The organization should follow a logical sequence. Limit paragraphs to three to five sentences.
Document Design	
Use effective text signaling	Bold text, underlines, and capitals are all examples of text signaling. Overuse or ineffective use of these methods decreases reading comprehension. See Figure 12.4 for an example of effective use.
Use engaging titles	Section titles should be stimulating and reflect the main theme.

(continued)

Table 12.11 Factors to Consider for Effective Writing for the Public (*continued*)

Sentence Structure	
Use effective visuals	Do not use decorative visuals that are abstract. They tend to take away from the text. Show images of what to do, rather than what not to do. For example, show fruits and vegetables rather than soft drinks and candy.
Use readable fonts	Use font sizes between 12 and 14 points. The heading should be two font sizes larger. ²³ All caps, white on black, and italics are more difficult to read. Use fonts with serifs (letters with feet), such as Times New Roman, for the main text. For titles, use fonts that are sans serif (no feet), such as Calibri.
Provide visual appeal	The following list contains general suggestions for providing pleasing useable visual appeal. Not all pointers are applicable for every written document. <ul style="list-style-type: none"> • Select compatible colors and typefaces. • As a rule of thumb, select two to three colors. • Avoid light colors for text, because they reduce visibility. • Provide adequate white space for writing personalized messages. • Use the best quality paper the budget allows. • Use text boxes and borders to highlight particular sections.
Content Issues	
Accuracy	Check scientific accuracy. If in doubt, ask colleagues to review.
Cultural sensitivity	Be sensitive to the cultural and regional practices and taboos. For example, if designing materials for an Indian Hindu population on low-fat foods, giving examples of low-fat cuts of beef would not be appropriate. In another case, if you were designing a fact sheet on healthful food selections for Mexican Americans, choose colors and content familiar for this group.
Resources	Include resources for readings and educational websites.

Exhibit 12.2 Procedure for Calculating SMOG Reading Level

1. Count ten sentences at the beginning, middle, and near the end of the document. If there are fewer than thirty sentences, use all that are provided.
2. Using the thirty-sentence sample, circle all the words containing three or more syllables (polysyllabic).
 - Include repetitions of the same word and numbers that are spelled out.
 - Hyphenated words are considered one word.
 - Abbreviations should be read as unabbreviated.
3. Total the number of circled words.
4. Use the SMOG conversion table to determine approximate grade level. See Table 12.11.²⁹

Evaluation of the printed materials found that including a colorful photo with an emotion-based message, personal testimonials, cooking and snacking tips, and recipes were best received.

Table 12.12 SMOG Conversion Table

Total Polysyllabic Word counts	Approximate grade level (1 1.5 grades)
0–2	4
3–6	5
7–12	6
13–20	7
21–30	8
31–42	9
43–56	10
57–72	11
73–90	12
91–110	13
111–132	14
133–156	15
157–182	16
183–210	17
211–240	18

Source: Adapted from McLaughlin, G. SMOG grading: A new readability formula. *J Reading*. 1969; 12(8):639–646.

Original Fragment	Revised Fragment
<p>The doctor decides the appropriate dose, taking into account the nature of the complaints. In cases of anxiety and tension, the usual dose is one 10 mg tablet, taken three to four times a day. In serious cases it may be necessary to increase the dose to 150 mg a day with a maximum of 300 mg.</p> <p><i>—In case of sleeping problems</i> 20 to 50 mg, to be taken at least one hour before going to bed.</p> <p>One should start with the lowest dose, as the risk of side effects increases with higher doses.</p> <p>A lower dose is prescribed for elderly patients, children and patients suffering from liver or kidney problems or from a chronic respiratory disease called hypercapnia.</p> <p>Take the tablets with water.</p>	<p>How and when should you take Oxazepam?</p> <p>Take the tablet with water. Swallow it whole with a glass of water. Do not dissolve the tablet in water and do not chew it.</p> <p>For sleeping problems, you should take Oxazepam at least one hour before going to bed.</p> <p>How much Oxazepam should you take?</p> <ul style="list-style-type: none"> • In case of anxiety or tension, the usual dose is one 10 mg tablet, taken three to four times a day. In serious cases, it may be necessary to increase the dose to 150 mg a day with a maximum of 300 mg. • In case of sleeping problems, the usual dose is 20 to 50 mg. <p>You will be given the lowest dose to start with, as the risk of side effects increases with higher doses.</p> <p>Furthermore, you will be given a lower dose when you belong to one of the following groups:</p> <ul style="list-style-type: none"> • elderly • children • patients suffering from liver problems • patients suffering from kidney problems • patients suffering from a chronic respiratory disease called hypercapnia

Figure 12.4 Example of Effective Use of Text Signaling

Source: Reprinted from *Patient Education Counsel* 80:113–119. Maat, H.P., Lentz, L., Improving the usability of patient information leaflets, page 115, 2010, with permission from Elsevier.

Emotion-based material



Traditional WIC material



Figure 12.5 Comparison of Traditional WIC Material and Emotion-Based Material

Source: USDA

12.3 Keys to Success 7—Conduct Evaluations

However beautiful the strategy, you should occasionally look at the results.

—WINSTON CHURCHILL

Evaluations are needed to determine the effectiveness of nutrition education interventions. Evaluation was discussed in Chapter 5 as part of the Nutrition Care Process and as part of a nutrition counseling intervention in Chapter 7, and Chapter 11 addressed the role of evaluation both in setting program objectives and in conducting a needs assessment of a target audience. Components of all the previous discussions are applicable to the present review; however, we will focus on special aspects, particularly significant in nutrition education programs. In this case, evaluations may be needed to provide information regarding distribution of resources, altering program delivery, continuing a program, or meeting funding requirements. For successful programs, having data to support the quality of a program provides useful publicity information for the community and policy makers.

Planning for an Evaluation

The framework for an evaluation needs to be arranged during the planning phase of an intervention since evaluation methods should be closely integrated with the design of educational strategies.²⁷ The exact form an evaluation takes depends on the scope of the intervention, such as an individual lecture at a health care facility or a comprehensive program for a multicenter organization. An evaluation may focus on elements of an intervention, such as the quality of a facility, audiovisuals, or handouts. Effectiveness of an intervention may assess knowledge, skills, attitudes, perceptions, or adoption of new behaviors by the participants. Also, an evaluation needs to measure the perceptions of the organizers and implementers of an intervention. A comprehensive evaluation will take into account all of these elements, the total design of the program, and all components of the process of implementation. Exhibit 12.3 lists questions to ask when planning an evaluation of outcomes. Answers to these questions will help determine if the plan includes appropriate goals and objectives or if they need to be altered.

After determining what factors should be evaluated, the plan needs to determine appropriate instruments and methods for the assessment. There are a variety of assessment procedures to choose among, including focus groups, questionnaires, interviews,

Exhibit 12.3 Program Evaluation Questions

Did the intervention reach the target population?
Which participants benefitted the most from the program?
Which participants benefitted the least from the program?
Was the program implemented as planned?
Was the original program plan effective?
How much did the program cost?
Was the program cost-effective?

Source: Adapted from: Boyle, M. A., Holben, D. H. *Program Planning for Success*, Belmont, CA: Wadsworth Cengage Learning; 2010, p. 115.

biochemical analysis, or nutrient intake assessments of food records. An evaluation should be built into each phase of the operation. In addition, instruments should meet validity and reliability standards. Validity addresses the question of whether an instrument truly measures what it purports to be measuring. Reliability refers to the question of whether the outcomes of the evaluation are reproducible, repeatable, or consistent.²⁸ For example, the validity of food frequency questionnaires needs to be established if the purpose is to measure usual intakes of vitamin A over a specific time frame. Reliability of skinfold evaluations is established when results are similar every time measurements are taken. Whether you borrow a previously designed instrument or develop a new one, extensive pilot testing is essential. Instruments or surveys need to be tested with your target audience.

The plan also needs to take into consideration who will administer the instruments or evaluation methods and when the assessments will be done. Exhibit 12.4 includes questions to consider regarding handling the analysis of data. Conducting evaluations can be extremely useful in detecting program deficiencies and strengths.

Exhibit 12.4 Data Analysis Questions

Who will store the data?
Who will analyze the data?
Who will interpret the findings of the analysis?
Who will justify conclusions?
What are your plans for using evaluation findings?

Source: Adapted from: Centers for Disease Control (CDC). Program Performance and Evaluation Office <https://www.cdc.gov/eval/> Accessed May 28, 2019.

Formative Evaluations

Formative evaluations often involve qualitative data collection via observation, interviewing, and structured discussions. An evaluation may be conducted before a program begins to assess certain design elements to be sure they will be effective and to determine what theory variables should be included in an intervention. For example, a brochure may be evaluated for accuracy, appropriateness, and readability. At the beginning of a program, an evaluation may be conducted to provide a baseline to measure the impact of an intervention. For ongoing projects, formative evaluations are implemented periodically to assess progress and to make necessary adjustments to improve methodology as indicated by the analysis.

Summative Evaluations

At the conclusion of a program or learning activity, a summative evaluation is conducted to assess outcomes. You want to know whether anticipated changes occurred in relation to the nutrition education intervention. Summative evaluations often have a quantitative evaluation, including performance tests, observations, surveys, biochemical and anthropometric measurements, and self-assessment tools.⁵ Careful assessment of summative evaluations help program managers determine whether a nutrition education program actually accomplished what it was designed to do. Based on these results, consideration can be given to modifying program goals and objectives for future interventions.

CASE STUDY 12.1 Presentation to Working Adults

The manager of a small corporation offers you the opportunity to speak to a group of employees on the importance of healthy meal and snack options for National Nutrition Month. There are approximately fifty middle-aged adults, twenty-one females and twenty-nine males. Some of the individuals engage in physical activity in the corporate gym, but by appearance you estimate that about one-third of the employees are overweight. You will provide a thirty-minute presentation in a mediated conference room. A previous investigation indicated that the target audience frequently snacks on high-fat and high-sugar snack foods purchased in vending machines and eats fast food from the nearby fast-food restaurant for lunch. For your presentation, you are considering analyzing the contents of a fast-food meal; taste testing; providing examples of healthy lunches; demonstration of the sugar, fat, and salt content of vending machine snacks; a game; or discussion of "What does it take to get me to eat *healthfully*?"

1. Analyze the teaching techniques under consideration for effectively reaching this group of middle-aged adults. What are the advantages and disadvantages of each?
2. Brainstorm some titles and attention-grabbing introductions for your presentation.
3. Which teaching techniques would not be appropriate for this adult audience? Explain.
4. What would be your call to action at the end of the presentation?

KEY TERMS

Teaching Techniques: means *through* which educational objectives are achieved to create meaningful learning experiences.

Action-Oriented Techniques: strategies such as debates, which allow individuals to exercise a level of control over what is learned.

Formative Evaluation: systematic assessment occurring before or during a learning activity to improve the educational process.

Summative Evaluation: systematic assessment at the conclusion of a course, program, or learning activity.

REVIEW QUESTIONS

1. When presenting a lecture, what are techniques for holding the attention of the listeners?
2. What key elements need to be considered when planning a food demonstration?
3. Under what conditions would the following methods be useful teaching techniques: role-playing, debates, simulations, and laboratories?
4. Identify and explain four possible ways to integrate web-based activities into nutrition education.
5. Explain the five basic steps of the Message Development Model.

- 6. Identify and explain the four steps of writing “ICIC” communications.
- 7. Define and compare formative and summative evaluations.

ASSIGNMENT **Develop a TV Public Service Announcement**

Work with a group to create a sixty-second TV public service announcement using the Message Development Model in Figure 12.3 and described in Table 12.9 to guide the process. Choose a population group to target with an audiovisual message advising individuals to increase vegetable consumption. Possible population groups could be adult men and women with risk factors for cardiovascular disease, female college athletes, or working mothers.

STEP 1: Define the Issue

- Your group should interview five people in your target population.
- Write a clear statement of the issue and ten questions that will be used to conduct the interview, using the questions in Table 12.9 to guide the process.
- Ask each interviewee to sign the Interview Agreement, LMF 5.7 in Appendix C.
- Conduct the interviews and record their answers.

STEP 2: Develop Initial Message Concepts

- Review material found in Step 2 of Table 12.9. Compare and analyze answers received in Step 1. Answer Step 2 questions in Table 12.9, and decide on a major motivating factor for behavior change for your target population.
- Based on the selected motivating factor, choose a presentation option (for example, testimonials, slice of life, animation, and so on) and develop an appealing script to support the central theme. See Table 12.10.
 - 1. Plan your video theme. Decide how you want to convey the central message of your video.

- 2. Choose actors or create animations to convey the importance of this health message.
- 3. If music is appropriate, choose an existing tune or write original music with lyrics that fit the central message.
- 4. Create a storyboard. A storyboard is a set of drawings or pictures detailing how the video will unfold. Start with one central idea and build on it.
- 5. If using actors, rehearse each scene. Rehearse each storyboard scene a few times before recording. This will help the camera person to anticipate movements of the actors and allow experimentation with shooting angles, lighting, and focusing.
- 6. Shooting and editing. Shoot each scene and edit. Include optional background music or supporting captions.

STEP 3: Assess Message Concepts

- Pretest your sixty-second TV public service announcement with three individuals of your target audience.
- Write four questions to ask your target population. Use the questions in Table 12.9 to guide the process.
- Record and analyze answers to the questions.

STEP 4: Fine Tune Your Message

- Answer all three questions in Step 4 of Table 12.9.
- Make any needed changes to your message.

STEP 5: Validate Message

- Place your presentation on a public or classroom access site such as YouTube or Canvas that allows comments.
- Ask your target audience to go to the site for an evaluation.
- Develop a short quantitative questionnaire to email or give to ten members of your target audience. Possible questions include those in Table 12.13.

Table 12.13 Evaluation of Sixty-Second TV Public Service Announcement

After watching the video, answer the following questions:	Agree	Neutral	Disagree
1. I found the message appealing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. I have a greater commitment to eat more vegetables.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. I am more likely to eat more vegetables.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. I am inspired to find out more information about eating vegetables.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

STEP 6: Write a Report

Title each section of your report. Under each section, write the following:

- Step 1:** Define your target population. Provide a clear statement of the issue and the ten questions used to conduct the interview. Under each question, write the responses received during the interviews. Designate each interviewee with a letter, such as G, H, L, and so on.
- Step 2:** In your report, rewrite questions found in Step 2 of Table 12.9 and answer the questions based on the responses to the interviews. Explain your selection of the motivating factor to guide the development of your audiovisual.
- Step 3:** Provide the four questions used to assess the pretest. Under each question write the response of your interviewees, designating each interviewee with a letter.
- Step 4:** Rewrite the questions in Step 4 of Table 12.9 and provide answers to these questions. As a result of these responses, did you make any changes to your audiovisual? Explain.
- Step 5:** Provide a list of comments you received from the public access site and a list of the four questions you used for the quantitative survey. Give a summary of the responses for each question.
- **Final evaluation of your participation in this project:** Each person in the group should answer the following questions:
 1. What were the best learning experiences for you?
 2. What would you do differently if you could redo the project?
 3. Think about what you learned. Explain how this knowledge or skill could be applied elsewhere in your nutrition education endeavors.
- **Hand in:** In addition to your report, hand in the signed Interviewee Agreements from Step 1 and the storyboard.

ADDITIONAL RESOURCES

Books

Gallo, C. *Talk Like TED: The 9 Public-Speaking Secrets of the World's Top Minds*. New York, NY: St. Martin's Press, 2014.

Beebe, S. A., Beebe, S. J., Ivy, D. J. *Communications: Principles for a Lifetime*. 6th ed. Upper Saddle River, NJ: Pearson, 2015.

Smaldino, S. E., Lowther, D. L., Russell, J. D. *Instructional Media and Technologies for Learning*. 10th ed. Englewood Cliffs, NJ: Allyn and Bacon, 2012.

U.S. Department of Health and Human Services. *Making Health Communication Programs Work*. National Cancer Institute Publication No. 04-5145; 2004.

Brookfield, S. D. *The Skillful Teacher: On Technique, Trust, and Responsiveness in the Classroom*. San Francisco: Jossey-Bass, 2nd ed., 2006.

Galbraith, M. W. (Ed.). *Adult Learning Methods: A Guide for Effective Instruction*. 3rd ed. Malabar, FL: Krieger Publishing Company, 2003.

Richardson, W. *Blogs, Wikis, Podcasts, and Other Powerful Web Tools for Classrooms*. 3rd ed. Newbury Park, CA: Corwin Press, 2010.

Educational Strategies Websites

www.speaking-tips.com Information and articles on public speaking

www.write-out-loud.com/index.html Numerous ideas for presentations

www.powerfulpresentations.net Information for creative presentations

www.TeamNutrition.usda.gov Information on nutrition education for schools

www.webQuest.org Web-based inquiry-oriented lesson format

www.nutritionexplorations.com Nutrition lessons and activities for all grade levels

www.educationworld.com/ Search: It's Up for Debate

Media Technique Websites

www.foodinsight.org/food-research.aspx Tools for Effective Communication. The International Food Information Council Foundation provides professionals with numerous resources and suggestions for formulating effective nutrition education messages.

<http://plainlanguage.nih.gov/> NIH Plain Language Online Training

www.cdc.gov Simply Put. Developed by the Centers for Disease Control and Prevention (CDC)

www.hsph.harvard.edu/healthliteracy/ Harvard Health Literacy Studies, numerous strategies and tools

www.readabilityformulas.com/smog-readability-formula.php SMOG Readability Calculator

Media Technique Apps

The following received high ratings on the AND website:

Adobe Premiere Rush CC, Makes it possible to shoot, edit and share professional-quality videos from a single app.

ImgPlay GIF Maker, Lets users create and share animated GIFs and videos using new or existing content.

Videoshop Video Editor, Comprehensive and easy to use, contains a long list of features to edit and design videos.

Evaluation Website

<http://www.cdc.gov/eval/resources/index.htm>
Evaluation Working Group at CDC

REFERENCES

- ¹J. P. Powell and L. W. Andresen, Humour and teaching in higher education. *Studies in Higher Education*, 1985; 10:79–90.
- ²International Food Information Council Foundation. Tools for effective communication, the second P: presenting. *Food Insight*, www.foodinsight.org. 2009. Accessed February 19, 2014.
- ³L. Schloff and M. Yudkin, *Smart Speaking*. Brookline, MA: The Speech Improvement Company, 2011.
- ⁴F. Fifer, Effective classroom management. *Academic Therapy*, 1986; 21:401–410.
- ⁵E. J. Hitch and J. P. Youatt, *Communicating Family and Consumer Sciences*. Tinley Park, IL: The Goodheart-Willcox Company, 2002.
- ⁶R. Dellos, Kahoot! A digital game resource for learning. *International Journal of Instructional Technology and Distance Learning*, 2015; 12(4):49–52.
- ⁷L. D. Rosen, *Understanding the iGeneration and the Way They Learn*. New York: Palgrave Macmillan, 2010.
- ⁸C. J. Bonk, *The World Is Open How Web Technology Is Revolutionizing Education*. San Francisco: Jossey-Bass, 2009.
- ⁹B. Dodge, Five rules for writing a great WebQuest. *Learning and Leading with Technology*, 2001; 28:6–10.
- ¹⁰G. M. Turner-McGrievy, M. K. Campbell, D. F. Tate, et al., Pounds Off Digitally Study: A randomized podcasting weight loss intervention. *Am J Prev Med.*, 2009; 37: 263–269.
- ¹¹M. Cocosila, N. Archer, R. B. Haynes, et al., Can wireless text messaging improve adherence to preventive activities? Results of a randomized controlled trial. *Intern J Med Informatics*, 2009; 78:230–238.
- ¹²B. Boyce, Nutrition apps: Opportunities to guide patients and grow your career. *J Am Diet Assoc.*, 2014; 114:13–15.
- ¹³Academy of Nutrition and Dietetics. FoodandNutrition.org /Nutrition-apps. Accessed April 13, 2019.
- ¹⁴I. R. Contento, G. I. Balch, Y. L. Bronner, et al., The effectiveness of nutrition education and implications for nutrition education policy, programs, and research: A review of research. *J Nutr Educ.*, 1995; 27:279–418.
- ¹⁵U.S. Department of Health and Human Services. *Making Health Communication Programs Work*. NIH Publication No. 04-5145; 2004.
- ¹⁶International Food Information Council Foundation. Tools for effective communication, the first P: publishing (a.k.a. writing). *Food Insight*, <http://www.foodinsight.org/Content/6/Publishing.pdf>. 2009. Accessed February 19, 2014.
- ¹⁷J. O. Prochaska and C. C. DiClemente, Stages and processes of self-change of smoking: Toward an integrative model of change. *J Consul Clin Psych.*, 1983; 51(3):390–395.
- ¹⁸L. M. S. Miller, T. N. Gibson, and E. A. Applegate, Predictors of nutrition information comprehension in adulthood. *Pt Educ Counsel.*, 2010; 80:107–112.
- ¹⁹H. P. Maat and L. Lentz, Improving the usability of patient information leaflets. *Pt Educ Counsel.*, 2010; 80:113–119.
- ²⁰T. Peregrin, Picture this: Visual cues enhance health education messages for people with low literacy skills. *J Am Diet Assoc.*, 2010; 110:500–505.
- ²¹National Institutes of Health. The plain language initiative. Available at <https://www.nih.gov/institutes-nih/nih-office-director/office-communications-public-liaison/clear-communication/plain-language>. Accessed May 28, 2019.
- ²²K. M. Busselman and C. A. Holcomb, Reading skill and comprehension of the Dietary Guidelines by WIC participants. *J Am Diet Assoc.*, 1994; 94:622.
- ²³J. Dollahite, C. Thompson, and R. McNew, Readability of printed sources of diet and health information. *Pt Educ Counsel.*, 1996; 27:123–134.
- ²⁴R. P. Bagozzi, M. Gopinath, and P. Nyer, The role of emotions in marketing. *J Acad Market Sc.*, 1999; 27:184–206.
- ²⁵R. Bagozzi, The poverty of economic explanations of consumption and an action theory alternative. *Managerial and Decision Economics*, 2000; 21:95–109.
- ²⁶R. Colchamiro, K. Ghiringhelli, and J. Hause, Touching hearts, touching minds: Using emotion-based messaging to promote healthful behavior in the Massachusetts WIC Program. *J Nutr Educ Behav*, 2010; 42:S59–S65.
- ²⁷I. R. Contento, *Nutrition Education: Linking Research, Theory, and Practice*. 3rd ed. Burlington, MA: Jones and Bartlett Learning, 2016.
- ²⁸C. A. Mertler, *Introduction to Educational Research*. 2nd ed. Thousand Oaks, CA: Sage Publications, 2016.
- ²⁹H. C. McGraw, SMOG Conversion Table. Office of Educational Research. Baltimore County Public Schools. Towson, MD.

13

Professionalism and Final Issues



Learning Objectives

- 13.1** Describe professionalism.
- 13.2** Explain why the Academy of Nutrition and Dietetics developed Scope of Practice documents for nutrition and dietetic professionals.
- 13.3** Describe four moral principles of biomedical ethics.
- 13.4** Describe steps to take for ethical decision making.
- 13.5** Use AND Code of Ethics to evaluate professional behavior.
- 13.6** Explain three factors clients have a right to know before engaging in a counseling relationship.
- 13.7** Identify boundaries between nutrition counseling and psychotherapy.
- 13.8** Describe factors that need to be considered for starting a private practice.
- 13.9** Explain social media marketing.
- 13.10** Explain professional concerns regarding interactions with clients on web-based platforms.
- 13.11** Explain telehealth.
- 13.12** Describe the importance of self-care and ways in which to reduce the risk of occupational burnout.

Being a professional is doing all the things you love to do on the days when you don't feel like doing them.

—JULIUS ERVING

In this chapter, we review the basic components of professionalism as they relate to nutrition counseling and education practitioners. First, we examine the framework of the dietetics profession as established by the Academy of Nutrition and Dietetics. Then we explore ethical behavior in the context of all human behavior with special emphasis on ethical decision making, clients' rights, boundaries between nutrition counseling and psychotherapy, and reasons for making referrals. For those interested in starting a private practice or small business, important factors to consider are presented, including a discussion of marketing in general and social media marketing in particular. A discussion of telehealth and telenutrition follows. Finally, the importance of self-care and ways to prevent occupational burnout are emphasized.

13.1 Professionalism

The Merriam-Webster dictionary defines professionalism as “the skill, good judgment, and polite behavior that is expected from a person who is trained to do a job well.”¹ The Academy of Nutrition and Dietetics (AND), the largest organization of food and nutrition professionals, defines the dietetics profession as “the integration, application and communication of principles derived from food, nutrition, social, business and basic sciences, to achieve and maintain optimal nutrition status of individuals and groups.”² To help understand how a **registered dietitian nutritionist (RDN)** and **nutrition and dietetics technicians, registered (NDTR)** implement these roles and responsibilities, AND provides a separate Scope of Practice for RDNs and for NDTRs.^{3,4} See Figure 13.1 for the Scope of Practice for the RDN. The Scope of Practice is meant to be a roadmap and resource for education, training, and future career. It includes the range of roles, activities, and regulations within which nutrition and dietetics practitioners perform. In addition, AND offers Standards of Practice (SOP) reflecting the Nutrition Care Process (NCP). See Chapter 5 for a review of the NCP. Also, AND has Standards of Professional Performance (SOPP) reflecting minimum performance standards for RDNs and NDTRs.^{5,6} Additional advanced standards have been developed for specific practice areas such as disordered eating and eating disorders. The various standards are periodically reviewed and revised as the needs of the dietetic profession change. In addition, nutrition professionals need to be guided by state and federal regulations and organizational standards and policies to provide competent, culturally sensitive, and safe practices.

There is no uniform definition of the title *nutritionist*. Some state statutes or licensure boards have set

specific qualifications for using the title; however, these are not consistent from state to state. AND states that all RDs are nutritionists, but not all nutritionists are RDs.³

Practice Management and Advancement

Since health services are a dynamic field, the Academy of Nutrition and Dietetics provides a **Scope of Practice** Decision Algorithm for RDNs and NDTRs to determine if a new activity (i.e., role, service, or intervention) is within their range of practice.⁷ This algorithm asks you a series of questions and guides you through factors to consider for evaluating your knowledge, skills, and experiences needed for making a decision.

AND also provides a Dietetics Career Development Guide to assist practitioners in systematically developing skills leading to increased competence and assuming positions of increasing responsibility. A graphic representation and explanation of the guide can be found on AND's website.⁸ All registered dietitians maintain a portfolio documenting continuing education. Additional education is encouraged through acquiring higher degrees and enrolling in certification programs.

As can be seen in Figure 13.1, AND provides a multitude of resources to aid practitioners in providing best evidence practices. These resources are designed to support both RDNs and **NDTRs** in meeting practice standards in all employment settings.

13.2 Ethics

Our very lives depend on the ethics of strangers, and most of us are always strangers to other people.

—BILL MOYERS

Ethics refers to “well-founded standards of right and wrong that prescribe what humans ought to do, usually in terms of rights, obligations, benefits to society, fairness, or specific virtues.”⁹ Ethical behavior can be analyzed in the context of all human behaviors. See Figure 13.2. Two factors about human behavior are self-evident: Humans are social animals, and they are capable of exhibiting a broad range of behaviors. Our feelings and desires can be selfish and infringe on the rights of others. Our ancestors must have quickly realized that society needed to provide some guidelines and control over behaviors for society to function effectively and comfortably. Societal pressures influencing our conduct come from a variety of sources, including laws, family values, educational principles, religious morals, and social agreements, such as ethical standards of a professional organization.¹⁰ However, none of these influencing factors has consistently advocated ethical behavior.

SCOPE OF PRACTICE

Encompasses the range of roles, activities, and regulations within which nutrition and dietetics practitioners perform.

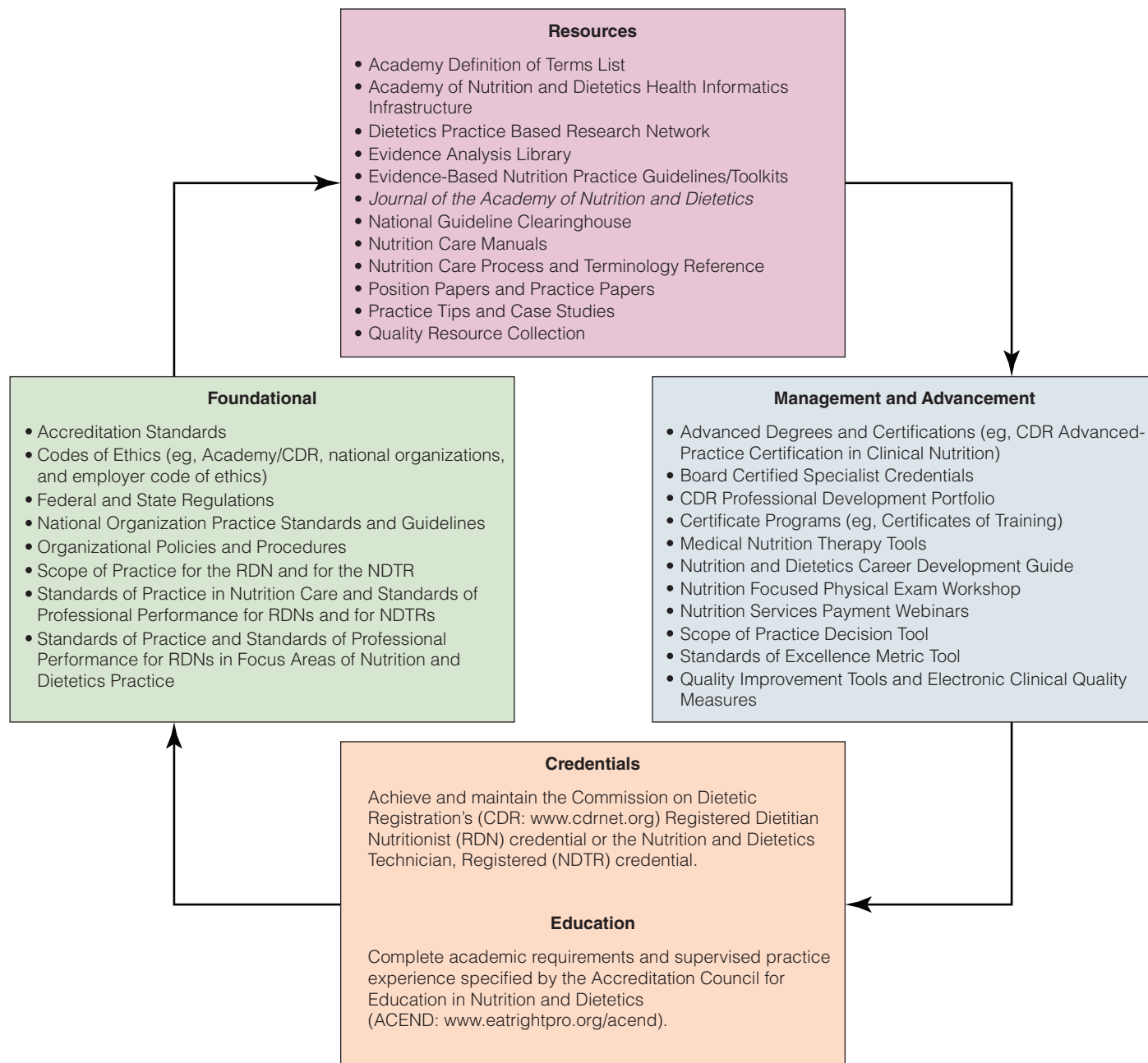


Figure 13.1 Nutrition and Dietetics Practice Components for Registered Dietitian Nutritionists (RDNs) and Nutrition and Dietetics Technicians, Registered (NDTRs)

Source: Academy of Nutrition and Dietetics Quality Management Committee and Scope of Practice Subcommittee of the Quality Management Committee. Academy of Nutrition and Dietetics: Scope of Practice in Nutrition and Dietetics. *J Acad Nutr Diet*. 2018; 118:141–165.

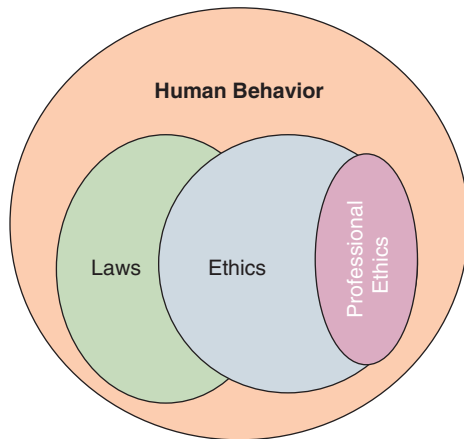


Figure 13.2 Ethics as a Component of Human Behavior

Source: Doris Derelian, PhD, JD, RD, FADA Professor and Head, Food Science and Nutrition Department, California Polytechnic State University, San Luis Obispo, CA.

For example, there have been times when societal organizations universally supported slavery or other human rights violations. As a result, to behave in an ethical manner, self-analysis of our own moral beliefs and moral conduct is required.

To help influence the manifestation of the best ethical behavior, professional organizations develop and publish ethical standards. The Academy of Nutrition and Dietetics, for example, published the **Code of Ethics** for the Nutrition and Dietetics Profession. “The primary goal of the Code of Ethics is protection of the public; this includes individuals, communities, organizations, and population groups with whom the practitioner works and interacts.”¹¹ The code provides guidance to nutrition and dietetics practitioners in their professional practice with the public and clients and professional colleagues. The Code of Ethics contains four main principles, under which fall thirty-two standards. See Exhibit 13.1.

There are times when taking a course of action may be unclear, especially if the ethical dilemma is subtle.

Exhibit 13.1 Four Moral Principles of Biomedical Ethics

1. Non-maleficence: the intent to not inflict harm.
2. Autonomy: ensures a patient, client, or professional has the capacity and self-determination to engage in individual decision-making specific to personal health or practice.
3. Beneficence: encompasses taking positive steps to benefit others, which includes balancing benefit and risk.
4. Justice: supports fair, equitable, and appropriate treatment for individuals and fair allocation of resources.

Source: Fornari, A. Approaches to ethical decision-making. *J Acad Nutr Diet*. 2015; 115:119–121.

Ethical principles and procedural models are available to assist decision making.^{12–13} See Exhibit 13.2.

Exercise 13.1 Working With Ethics

Revisit the case study about John in Chapter 2. Review the Academy of Nutrition and Dietetics Code of Ethics for the Nutrition and Dietetics Profession (2018), available at <https://www.eatrightpro.org/practice/code-of-ethics/what-is-the-code-of-ethics>, and the moral principles of **biomedical ethics** in Exhibit 13.1. In your journal address each of the following:

- ☐ Use the Academy of Nutrition and Dietetics code as a general guide for professional behavior. Identify by number and explain specific ethical issues of concern in the Chapter 2 case study exhibited by the nursing home staff.
- ☐ List each moral principle identified in Exhibit 13.1 and give your impression of how each is reflected in the case study about John.

Exhibit 13.2 Steps for Making Ethical Decisions

1. Identify the problem or dilemma. Gather information that will shed light on the nature of the problem. This will help you decide whether the problem is mainly ethical, legal, or moral. Is the problem a business dispute, a personal issue, or a communication problem?
2. Identify the potential issues. Evaluate the rights, responsibilities, and welfare of all those who are involved in the situation. Consider how opposing sides view the dilemma.

(continued)

Exhibit 13.2 Steps for Making Ethical Decisions (continued)

3. Brainstorm how culture may be influencing the decision-making process. Possible influencing factors may include religious beliefs, language differences, food customs, and societal customs.
4. How does the Academy/CDR Code of Ethics relate to the issue?
5. Consider the applicable laws and regulations, and determine how they may have a bearing on an ethical dilemma.
6. Seek consultation from more than one source to obtain various perspectives on the dilemma, and document in the client's record what suggestions you received from this consultation.
7. Brainstorm various possible courses of action. Continue discussing options with other professionals.
8. Enumerate the consequences of various decisions, and reflect on the implications of each course of action. Consider the ethical principles of autonomy, beneficence, non-maleficence, and justice as a framework for evaluation of the consequences of a given course of action. See Exhibit 13.1.
9. Decide on what appears to be the best possible course of action. After the course of action has been implemented, follow up to evaluate the outcomes and to determine if further action is necessary. Document the reasons for the actions you took as well as your evaluation measures. Are there strategies that can be taken to prevent a similar issue in the future?

Source: From Corey. *Theory and Practice of Counseling and Psychotherapy*, 8E. © 2009 Wadsworth, a part of Cengage Learning, Inc.; Academy of Nutrition and Dietetics. Ethics Education Facilitators' Guide. Available at www.eatrightpro.org. Accessed July 6, 2019.

Exercise 13.2 Use Ethical Theory and Decision-Making Guidelines

Consider the following scenario: A sick child is in a hospital room and is likely to be there for an extended period of time. The large family of the child is part of a cultural group that believes they need to help the child get well by performing loud, religious ceremonies that involve the whole family. This is against hospital policy, but the family refuses to abide and their activities are disturbing other patients and staff. They do not believe using the parking lot nor the cafeteria during off hours are acceptable. With a colleague, review the steps of ethical decision making identified in Exhibit 3.3 and discuss influencing factors for each step.

Exercise 13.3 Personal Inventory of Attitudes Relating to Ethical Issues

This inventory is designed to assess your attitudes and beliefs on specific ethical issues common to all counselors or particularly relevant to nutrition counselors. Select the response that comes closest to your position, or write your own response in e. There are no right or wrong answers. Discuss your selections with your colleagues.

1. A counselor's primary responsibility is to
 - a. the client.
 - b. the counselor's agency.
 - c. society.
 - d. the client's family.
 - e. _____

(continued)

Exercise 13.3 Personal Inventory of Attitudes Relating to Ethical Issues (continued)

2. Regarding confidentiality, my position is that
 - a. it is never ethical to disclose anything a client tells me under any circumstances.
 - b. it is ethical to break a confidence when the counselor deems that the client might do harm to himself or herself or to others.
 - c. personal information can be shared with the parents of the client if the parents request it.
 - d. it applies only to licensed therapists.
 - e. _____
3. Concerning the issue of physically touching clients, my position is that
 - a. touching is an important part of a helping relationship.
 - b. touching a client is not wise.
 - c. touching a client is ethical when the client initiates physical closeness with the counselor.
 - d. it should be done only when the counselor feels like doing so.
 - e. _____
4. The way I can best determine my level of competence in working with a given type of client is
 - a. by having training, supervision, and experience in the areas in which I am practicing.
 - b. by asking my clients whether they feel they are being helped.
 - c. by possessing an advanced degree and a license.
 - d. by relying on reactions and judgments from colleagues who are familiar with my work.
 - e. _____
5. Regarding the ethics of social and personal relationships with clients, it is my position that
 - a. it is never wise to see or to get involved with clients on a social basis.
 - b. it is an acceptable practice to strike up a social relationship after the counseling has ended if both parties consent.
 - c. with some clients, a personal and social relationship might well enhance the therapeutic relationship by building trust.
 - d. it is ethical to combine a social and counseling relationship if both parties agree.
 - e. _____
6. If I am counseling individuals who are engaging in a cultural practice that is morally repugnant to me (for example, the sacrifice of a dog to achieve healing may be repugnant to many Westerners), I believe it is my responsibility to
 - a. learn about their values and not impose mine on them.
 - b. encourage them to accept the values of the dominant culture for survival purposes.
 - c. modify my counseling procedures to fit their cultural values.
 - d. end the counseling relationship because I cannot accept their values.
 - e. _____
7. When working with an overweight client who has a long history of losing weight and gaining back more weight than lost, the focus of my counseling should be to
 - a. encourage the client to accept his or her present weight.
 - b. encourage the client to join a self-help group.
 - c. put the client on a strict calorie-controlled diet.
 - d. encourage the client to set weekly behavioral goals to improve the quality of his or her diet.
 - e. _____
8. For clients who have minimal financial resources,
 - a. it is acceptable to file false claims for services.
 - b. refuse to take them as clients.
 - c. it would be appropriate for me to charge no fee or less than I charge other clients.
 - d. refer clients who cannot pay to self-help groups.
 - e. _____

(continued)

Exercise 13.3 Personal Inventory of Attitudes Relating to Ethical Issues (continued)

9. When working with salespeople,
 - a. it would be appropriate to accept expensive perks, such as a trip to a resort.
 - b. it would be acceptable to accept modest perks, such as a fruit basket.
 - c. it would not be acceptable to accept any presents.
 - d. it would not be appropriate for me to continue working with a salesperson who offered me perks.
 - e. _____
10. When counseling a client referred to me by a doctor who has given incorrect nutrition advice (such as “Don’t eat fruit. Pregnant women should not eat fruit. It holds water”), I should
 - a. tell the client it is OK to eat fruit.
 - b. tell the client that you will talk to her doctor about that and get back to her.
 - c. avoid the topic and talk about what other foods she should eat.
 - d. agree with the statement.
 - e. _____

13.3 Client Rights

Clients are entitled to know their rights and options during the course of an ongoing counseling relationship. Cormier et al.¹⁴ point out that ethical counselors should provide their clients with enough information about the counseling process to enable them to make informed choices (also known as empowered consent). This includes (1) confidentiality, (2) the procedures and goals of counseling, and (3) the counselor’s qualifications and practices. In addition, long-term care residents and acute care patients have established rights that allow for personal choices to be addressed.

Confidentiality

A breach of confidentiality can do irreparable harm to a counseling relationship because it undermines the essential component of trust. Generally, counselors are not free to disclose information about their clients unless they first receive written permission.¹⁴ A discussion regarding the confidential nature of the sessions should be included in the first counseling session with your client. The Academy of Nutrition and Dietetics Code of Ethics for the Nutrition and Dietetics Profession states, “Respect patient/client’s autonomy. Safeguard patient/client confidentiality according to current regulations and laws.”¹¹

Procedures and Goals of Counseling

The procedures and goals of the counseling program should be discussed with your client during the first session, including a clarification of any fees and a time frame for payment. Depending on the setting of the counseling intervention, there may be an institutional form that clients will be asked to sign. If you are working

in a doctor’s office or a private practice office, you should design an appropriate form. Appendix C includes a sample agreement form for a student working with a volunteer. See Lifestyle Management Form 14.2, Student Nutrition Counseling Agreement.

Qualifications and Practices of the Counselor

Your clients should know what you can and cannot do for them. For example, clients may be coming to you hoping to obtain a diagnosis for their condition. The counseling agreement form should contain information about your credentials and something about the scope of your practice. During your first session, ask your clients what they are expecting to get out of the counseling intervention with you. At that point, any discrepancies should be clarified.

13.4 Boundary Between Nutrition Counseling and Psychotherapy

According to the Academy of Nutrition and Dietetics Professional Code of Ethics, “Nutrition and dietetics practitioners recognize and exercise professional judgment within the limits of individual qualifications and collaborate with others, seek counsel, and make referrals as appropriate.”¹¹ After reviewing various theoretical approaches to counseling, a beginning nutrition counselor may feel overwhelmed and wonder what the boundaries are between counseling and psychotherapy. Expanding your skills in psychotherapy can be useful if you decide to specialize in nutrition counseling. You may decide to obtain additional education in areas such as addiction or family counseling. Understanding that there is overlap between the role of a psychotherapist

and nutrition counselor, some have advocated a client-centered nutrition therapy paradigm where there is exploration of a client's personal issues related to food behavior. For a counselor who appreciates the dynamics of the counseling relationship and factors involved in healing, the term **nutrition therapist** appears more appropriate.¹⁵ However, some authorities have addressed the boundary issue.¹⁶ A nutrition counselor addresses issues related to food behavior, medical conditions, eating patterns, and body image. A psychotherapist addresses issues related to mood, mental illness, trauma, and relationships. Overall, the nutrition counselor's work is based on food and the psychotherapist's work is based on feelings.

Referrals

Referrals are in order whenever the needs of the client are outside the scope of a particular counselor's expertise. It is useful to have on hand a list of professionals, such as social workers, physical therapists, psychologists, or physical trainers.

Referrals to a mental health professional should be made when a client discloses information such as suicidal tendencies, physical or verbal abuse, severe marital difficulties, loss/grief, unresolved sexual abuse, recurring self-destructive behaviors, eating disorders, and feelings of depression. In some clinical situations, you will be working with a medical team, and your client will already be receiving help from a psychotherapist. If this is the case, then you can suggest your client discuss the issue in question with his or her therapist. However, sometimes the need to suggest a referral is not as clear cut. Clifford and Curtis¹⁶ provide some guidance for the situations where the overlap with psychotherapy is somewhat fuzzy:

- Is a significant amount of counseling time spent talking about issues not related to food, eating patterns, and nutrition?
- Are you spending a lot of time helping your client to "navigate the system"?
- Do you feel that you are stepping on the toes of another health professional?

Anecdote

One time when I was counseling a middle-aged man with high blood pressure and elevated serum cholesterol, he came to our weekly session distraught over a decision made by his unmarried teenage daughter to have an abortion. It was against his moral beliefs, and he was having trouble functioning. He said I was a counselor and maybe I could give him some advice. I told him I sympathized with his dilemma, I understood that being a parent is sometimes a heart-wrenching task, and I wished I could change things for him. Because there did not seem to be anything he could do about the abortion, I suggested that he consider individual or family counseling with a psychotherapist so at least he could better cope with the issue.

Should issues arise that do not fall into a nutritionist's scope of practice, the nutrition counselor should be cautious about giving advice. You do not want to cause harm or encourage the direction of your counseling session to focus on mental health issues. Unfortunately, some individuals may feel there is a stigma for seeking help from a mental health profes-

sional and look to you for help resolving nonfood issues. Kellogg¹⁷ provides a sensitive approach for making a referral. First, it would be appropriate to acknowledge your client's feelings and possibly summarize the areas of concern providing any nutrition information related to the issue. Then explain the advantages of meeting with a psychotherapist, and ask your client's thoughts about the idea of meeting with another professional. Last, ask permission before providing names of psychotherapists. The following is an example of using these steps for making a referral:

During our sessions together, you have mentioned several times about discovering and eating food you find in uncommon places—under your bed, in your bedroom closet, and in a dresser. It appears that these findings are interfering with your food plans. There are professionals who work with people who have these kinds of experiences with food. What do you think about meeting with a therapist who specializes in these issues with food? Would you be interested in some names and phone numbers of some specialists in our area?

Proper Dress Attire

Proper dress attire is a component of creating a professional image. A survey conducted by the staffing agency OfficeTeam found that 80 percent of employers felt that the way an employee dresses impacts the likelihood of promotion.¹⁸ Dressing for a successful

nutrition intervention means to dress in a manner that does not create discomfort for the clientele. Clean, neat, and modest clothing and jewelry are suitable for most interventions. Expensive suits and jewelry would not be appropriate for working in poverty programs. Tight-fitting, revealing clothes are probably not suitable for any setting, but they would

Anecdote

I was dismayed when a hospital dietitian called to inform me that she was not happy with the way one of my students was dressed who was visiting the hospital to follow her to observe and learn. Apparently my female student was dressed in a revealing tube top, ripped very short jean shorts, and flip flops. The student was told that she would not be able to mirror and observe the dietitian because of her attire.

Exercise 13.4 Evaluate Counseling Effectiveness and Professional Behavior

Read the following scenario, and identify what the counselor could have done or said differently to have a more effective professional encounter. Record your ideas in your journal, and discuss them with your colleagues.

- Anita** Hi, Nancy. Please come in. Have a seat and relax. I am just finishing up a few things. (Four minutes later . . .)
- Anita** OK. Let's see if we can get to the root of your problem here. How long have you had a weight problem?
- Nancy** Well, when I was pregnant in 2005 I gained 53 pounds. I had only lost about 20 pounds when I realized that I was pregnant again. Unfortunately, I gained another 35 pounds with the second pregnancy.
- Anita** Has your doctor said anything to you about it?
- Nancy** Not really.
- Anita** OK. Tell me about yourself.
- Nancy** Well, I am 42 years old, married, with two children. I work at a nursing home from 11 p.m. to 7 a.m. as the charge nurse. I am an LPN. I have a lot of stress in this job because I am the only nurse on duty. Whenever anything goes wrong, I have to make the decision as to what to do all by myself. Do I call the doctor and wake him up; do I send the patient straight to the emergency room; do I wait until morning; what if the patient dies by then? To cope with my anxieties during my night shift, I eat.
- Anita** What types of foods do you eat?
- Nancy** Usually families are trying to be nice, and they bring in cookies, donuts, or chocolates. These things are always at the nurse's station.
- Anita** Do you eat any meals?
- Nancy** Yes, the kitchen sets us up with a hot meal, which they leave in the refrigerator, and we microwave it when we are ready to eat. It is the same dinner the patients eat.
- Anita** Do you eat when you go home?
- Nancy** Usually I stop at one of the fast-food restaurants on Route 5. I have a croissant sandwich or a biscuit with an egg and Taylor ham.
- Anita** Well, we will have to change that!
- Nancy** I have that and then in about an hour or so I go to bed. I sleep most of the day, which is a problem because of my daughter.
- Anita** What about your daughter?
- Nancy** She is in high school, and because I usually sleep until 6 or 7 p.m., she goes unsupervised after school. She has gotten to be a handful.
- Anita** What about your husband—isn't he available to watch her?
- Nancy** My husband works from 3:00 p.m. to 1:00 a.m. But he really doesn't care anymore. He feels that Marie's problems are a direct result of my inability to control her and blames me for everything. He has little respect for me, especially with me being so overweight.
- Anita** Well, from the Client Assessment Questionnaire you completed, it seems to me that you are about a hundred pounds overweight. Therefore, we are talking about a long-term lifestyle change for you to get to your goal weight of 120 pounds. You need first of all to get your husband to be supportive of you! He should be happy with your efforts at improving yourself.
- Nancy** I guess I can try.
- Anita** Is there any chance you could get another job? You are so sedentary in what you are doing.
- Nancy** I have a pretty good pension and seniority. I really can't change that part of my life.
- Anita** Well, OK, let's see if we can design a diet for you that will work. But I must tell you that to be successful, you are going to have to join a gym.

be particularly inappropriate in an obesity clinic. Strong scents should be avoided because the odor can be irritating, and some people are allergic to them. Dangling jewelry or any clothing item that could be distracting should not be worn. Often nutrition counselors in health care settings wear a white lab coat with a nametag over professional attire.

13.5 Starting a Private Practice

Having your own business is appealing for individuals who have an entrepreneurial spirit and desire control over their career destiny. Table 13.1 provides a list of

personal qualities that enhance the likelihood of career success. Starting a private practice provides you with opportunities to work on projects for which you have a passion, and developing a creative enterprise can be rewarding. However, having total responsibility for the progress of your business can be challenging. You will be using all the traits you inherited and the skills you acquired throughout your life to find, develop, and organize resources. When making a decision to start a business, consider the following: Do you possess self-motivation and self-confidence; are you a risk taker, tenacious, disciplined, and adaptable; do you have the ability to roll with inevitable downturns, critically

Table 13.1 Entrepreneurial Aptitude Evaluation

After reading each question, circle the number that indicates your agreement with the statement. The number 5 indicates total agreement, and number 1 indicates no agreement.	
1. In the games I play, I play harder when I fall behind.	5 4 3 2 1
2. When I go to a sports event or concert, I often try to figure out the promoter's or the owner's gross revenues.	5 4 3 2 1
3. When things take a serious turn for the worse, my first impulse is to look for alternatives and solutions, not for someone to blame.	5 4 3 2 1
4. Using my friends and coworkers as a barometer, my energy level is high.	5 4 3 2 1
5. I often daydream about business opportunities while commuting to work, flying on an airplane, waiting in the doctor's office, or other quiet times.	5 4 3 2 1
6. Looking back on significant changes I have made in my life, such as schools, jobs, relocations, and relationships, I have looked forward to them with excitement and been able to make tough decisions after doing some research.	5 4 3 2 1
7. My first consideration of any opportunity is always the upside, not the downside.	5 4 3 2 1
8. I am happiest when I am busy, not when I have nothing to do.	5 4 3 2 1
9. As an older child or young adult, I often had a job, plan, or idea to make money.	5 4 3 2 1
10. As a youth, I worked part-time and had summer jobs rather than spending little or no time working. I did not primarily spend my time participating in recreation and enjoying a total break over the summer.	5 4 3 2 1
11. My parents worked many years owning a small business.	5 4 3 2 1
12. I have worked for a small business for more than one year.	5 4 3 2 1
13. I really enjoy being in charge, in control, and at the center of attention.	5 4 3 2 1
14. I am comfortable borrowing money to finance an investment, such as buying a home.	5 4 3 2 1
15. I am extremely creative.	5 4 3 2 1
16. When I balance a checkbook, "close" is good enough; it does not have to be to the penny.	5 4 3 2 1
17. When I fail at a project or task, I am inspired to do it better the next time; it will not scar me forever.	5 4 3 2 1

(continued)

Table 13.1 Entrepreneurial Aptitude Evaluation (*continued*)

18. When I truly believe in something, whether it's an idea, a product, or a service, I am able to sell it.	5 4 3 2 1
19. In my current social and business environment, I am most often a leader, rather than a follower.	5 4 3 2 1
20. I am good at keeping my New Year's resolutions.	5 4 3 2 1
Scoring the test	
80–100: GO FOR IT. . . YOU SHOULD BE A SUCCESSFUL ENTREPRENEUR.	
60–79:	You probably have what it takes, but review the statements with the lowest scores to determine if there are trends.
40–59:	Too close to call. Seriously look at the low scores, and see if there is something you can learn to tilt the scales in your favor.
0–39:	Tests could be wrong, but you are probably better off working as an employee.

Source: Adapted from Tyson, E., and Schell, J. *Small Business for Dummies*, 3rd ed. Hoboken, NJ: Wiley Publishing, 2008.

evaluate difficulties, and analyze and build on successes? If you answered yes to all of these questions, you are probably a good candidate for starting a private practice. However, the U.S. Small Business Administration indicates that about one-half of small businesses fail within the first five years, so you should minimize the risk by careful planning.¹⁹ Successful entrepreneurial dietitians generally earn more money than those working for an employer, but most small businesses take from three to five years to turn a profit.²⁰ You should plan accordingly; for example, you may wish to keep a part-time job while starting your business. The following provides an overview of factors to address when starting a private practice.²¹

Define a Focus

Clarify a vision of what you want for yourself and your career. You are not likely to hit a target if you do not know where to aim. What are you passionate about? To what are you willing to devote many hours of your life? Critically analyze whether your interest will produce a viable business. Becky Dorner, a successful long-term care nutritionist who owns two companies and has twenty-five employees, stated that her first attempts in the private practice arena did not go well.²² Wellness was her first focus area, but she was not able to make that specialty area work financially so she changed her attention to another area of interest, long-term care. An investigation of market possibilities can help you to define a focus area. Finding a niche allows you to master skills in a particular area of nutrition. By spreading yourself too thin, you run the risk of being a “jack of all trades, but a master of none.”²³

Professional Credentials and Achievements

Your area of interest will guide the credentials you wish to obtain. If you wish to provide direct nutrition counseling services to clients, there will be more opportunities if you are a registered dietitian and obtain state licensure or certification credentials. The latter differs by state, and there may be defined legal guidelines as to who can provide counseling services. There may be useful degrees or credentials in other specialty areas, such as business management, food science, personal training, or diabetes education. By keeping a record of your education credits and a portfolio highlighting your statistics, business customers, positive evaluations, patient testimonials, references, and achievements, you will be ready for an interview with a potential business client.

Learn and Connect

Continuing your education either formally or informally through webinars, conferences, and workshops can improve your skills. Consider possible mentors in your education or social network. Joining and taking an active role in professional groups will allow you to make important networking connections to learn about opportunities in your interest area. Also, networking with marketing, communications, or consulting organizations can be valuable, particularly if you are planning to work with corporate organizations. There are several resources available to informally learn business skills. The U.S. Small Business Administration has a mission to help build and grow small businesses.²⁴ The administration website has a great deal of helpful information, and most states and cities have regional offices that

Exercise 13.5 Are You Ready to Start a Small Business?

Take the entrepreneurial aptitude test in Table 13.1. In your journal write the following:

- ☐ What was your score on the aptitude test?
- ☐ Do you agree with the number you received? Explain.

offer classes. Another helpful organization is SCORE (Service Corps of Retired Executives).²⁵ Volunteer mentors offer free online or in-person advice to small business entrepreneurs.

Create a Business Roadmap

You may consider starting with a vision (goal) board, depicting what you want to keep and expand in your life. As the saying goes, “What you focus on expands.” This can be done as a tactile collage with drawings or pictures, or it can be done on a computer. Some people respond to a visual representation to help keep their lives focused on their dreams and goals.

A formal business plan can take several forms, such as a one-page concept summary or a comprehensive analysis including an executive summary, mission statement, description of product or service, goals for your company, target market, implementation milestones, management team, competition, and financial projections.²⁶ The Small Business Administration website can lead you through the process of making a business plan. Also, the Academy of Nutrition and Dietetics has a step-by-step guide for creating a business plan for members of the academy. If you are looking to obtain outside financing, a detailed plan is essential.

Nutrition professionals working in private practice often wear many hats. For example, they may see private clients for diet consultation, give presentations to the public and professional groups, create educational materials, develop recipes or menus, give supermarket tours, or write a book. The most lucrative appear to be working as a media spokesperson, consulting for businesses, and writing books.²⁷

Professional Support Systems

Setnick²⁸ reported that her life was hectic and she felt overworked running a private business. After she hired a support team, including an office manager, a computer consultant, a webmaster, and a book assistant, her life changed. Despite the salaries and consultant fees, her net income increased, and she had more time to devote to her personal life. Time is money, and you cannot

be an expert at all aspects of managing a business. Knowledgeable professional support can help your business to grow and be more efficient. For example, accountants design accounting and payroll systems, corporate attorneys create appropriate business structures, marketing consultants establish workable marketing plans, and technology consultants are able to integrate the latest technology resources into various components of a business structure.²¹

Business Basics

Although a professional support system is helpful, you need some basic business knowledge and skills. Financial planning is essential for making a profit. You have fixed costs, such as rent and malpractice insurance; variable costs, such as printing; program costs, such as travel expenses; and wages. Account for the amount of unpaid time you spend marketing; interacting with therapists, physicians, and corporations; and responding to emails. Use a variety of resources to determine fees, including an investigation of competition prices, discussions with colleagues, and review of published formulas.^{29,30} Also explore the possibility of becoming an in-network provider for individual health plans. You will be listed as a referral resource, and billing and payments will be completed through the health care provider.

13.6 Marketing Basics

Whether or not you are starting a private practice, you should consider your “**brand image**,” that is, how you are perceived by others. Having a positive image will likely provide you with more opportunities for advancement and greater satisfaction during your career. See Table 13.2 for a list of habits that help people find success by developing a positive brand image.

One place to start a self-promotion campaign is by developing a sound bite to describe your work.³¹ How many times are you asked, what do you do? You want to have a clear, concise answer that sounds interesting and rewarding. A general formula includes the following: (1) offer a general sentence about where you work and your area of expertise; (2) provide more depth about what you do, and possibly give an example of how you contribute to the organization; and (3) give your title. For example, “I market probiotics. I write articles and maintain a website to help people have better digestion. I own my own company.” The following discussion focuses on marketing for starting a private practice, but even if that is not your objective, you are likely to find pointers for building a positive personal identity.

Table 13.2 Habits That Help You Strive for Success

Habit	Description
Be Proactive	Behavior is a function of our decisions, not our conditions. We have the initiative and responsibility to take action to make things happen.
Begin with the End in Mind	Know where you are now and where you are going with a clear vision of your destination.
Put First Things First	Manage your behavior to accomplish a desired purpose—doing what needs to be done, whether or not the task is viewed as enjoyable.
Think Win-Win	Search for mutually beneficial interactions, solutions, or agreements.
Seek First to Understand . . . Then to Be Understood	Empathic listening is essential—that is, with the intent to understand another person emotionally and intellectually. You see the world through the eyes of another person.
Synergize	Growth, creativity, and excitement occur when there is mutual appreciation for abilities, learnings, and insights of all involved.

Source: Adapted from Covey, S. R., *The 7 Habits of Highly Effective People*. New York: Free Press, 2004.

Exercise 13.6 Apply Characteristics That Help You Strive for Success in Nutrition Counseling

Review the list of characteristics in Table 13.2 that can aid in the pursuit of a successful career. In your journal, indicate how you believe they apply to a career in nutrition counseling; discuss your answers with your colleagues.

Exercise 13.7 Write a Self-Promotion Sound Bite

Follow the guidelines for writing a sound bite to describe your work. Write this statement in your journal.

Marketing Plan

We are advertis'd by our loving friends.

—WILLIAM SHAKESPEARE

A marketing plan is essential for finding clients. A marketing consultant can help develop a comprehensive plan that may include identifying a brand

image, creating marketing materials, identifying referral resources, and developing advertising materials. Consider conducting a focus group or surveying potential customers regarding their knowledge, beliefs, and attitudes. Some of the most successful marketing strategies identified by nutrition entrepreneurs include word-of-mouth from satisfied customers, networking, Internet (website and social marketing), and personal meetings or phone calls to referral resources.²⁷ To evaluate the best marketing approaches for your audience, you need to keep track of the responses. Ask clients how they heard about your services. Telephone, email, or send a note to thank referrals.

Internet Presence and Usage in the United States

Opportunities abound for marketing on the Internet, as shown by statistics. As of 2016, 89 percent of U.S. households had a computer, which includes smartphones, and 81 percent had a broadband Internet subscription.³² A 2019 survey found that 28 percent of American adults report that they go online “almost constantly” and roughly 80 percent say they go online at least daily.³³ The Internet has become a primary source for health information. A Pew Research Center survey found that 72 percent of Americans use the Internet to research their health concerns.³⁴ Sites such as PatientsLikeMe (www.patientslikeme.com) and CrowdMed (www.crowdmed.com) provide health information, medical support, and connection with others who have the same condition or disease.

Having a creative, easy-to-navigate website is essential for all businesses. Create original content and update as often as possible. This will encourage readers to regularly return to your site and keep search engines indexing your site. Providing opportunities for your audience to make comments helps you to better understand the concerns of your target population and may give you ideas regarding additional content to post.³⁵ See Table 13.3 for suggestions to draw attention to your site.

Social Media Marketing

According the Academy of Nutrition and Dietetics Position Statement, “social media refers to the ever growing and evolving web-based and mobile technologies that have dramatically changed how people get information, connect, and communicate.”³⁶ Social media includes websites or applications that allow interaction and social networking. The average social media user has five accounts, and a 2019 Global Web Index survey indicates that users spend an average of 2 hours and 22 minutes on social networking and messaging

Table 13.3 Techniques to Draw Attention to Your Website

Category	Description
Register with search engines	Major search engines allow you to register your website.
Trade links	Exchange links with complementary websites.
Ping your website	Ping-O-Matic (pingomatic.com) informs search engines when you have updated your site.
Provide website address on printed material	Include your website address on letterheads, brochures, business cards, and so on.
Post on AND's Nutrition Informatics Blog	If you are an Academy of Nutrition and Dietetics (AND) member, you can post website and blog information on the AND blog.
Mention in presentations	When providing presentations, mention your website three times: at the beginning, middle, and end of your talk. Be sure there is printed material with your web address for audience members to take.
Write articles	Include your web address in any articles you write.
Write newsletters	Provide an option to receive a periodic newsletter via email. The newsletter should contain useful information, not just advertising.

Source: Switt, J. T. Drawing attention to your web site. *J Am Diet Assoc.* 2008; 109:20.

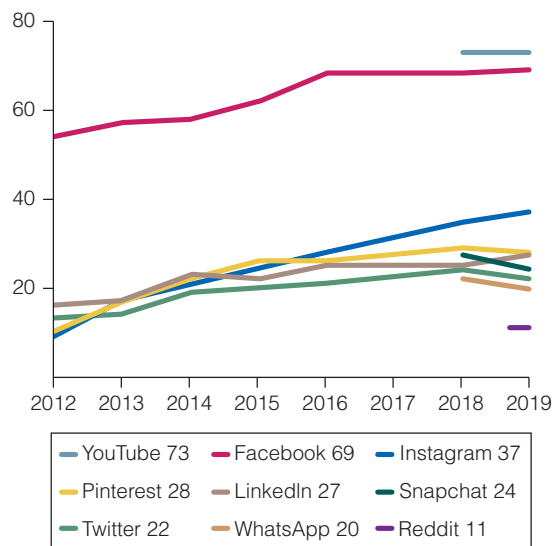
platforms each day.^{37,38} The most widely used social media sites among adults in the United States are Facebook (69 percent) and YouTube (73 percent). See Figure 13.3. Young adults, eighteen to twenty-four years old, are substantially more likely to use Snapchat (73 percent) and Instagram (75 percent) than older adults.³⁹

Web-based advertising has been steadily replacing traditional marketing strategies. A survey by Vistaprint found that 53 percent of small businesses use social media as their main source of advertising and 37 percent of consumers find small businesses online.⁴⁰ Using **social media marketing** can create interest in your business and bring potential customers to your website. Social media includes using but not limited to blogs, social networks, bookmarks, wikis, video and photo sharing, and podcasts. Nutrition professionals have used social media to create food and nutrition blogs or websites and are using social media to educate the public, attract new clients, network, engage with patients, and promote books or other products.

Using social media to influence consumers provides a number of advantages to small business owners. In an article describing interviews with eight nutrition entrepreneurs, all indicated that social media greatly contributed to their success.⁴¹ Although there was some variability in the sites they use, all regularly use Facebook, Twitter, and Instagram. Some also use Pinterest, LinkedIn, Snapchat, and Periscope. They use

Facebook, YouTube continue to be the most widely used online platforms among U.S. adults

% of U.S. adults who say they ever use the following online platforms or messaging apps online or on their cellphone



Note: Pre-2018 telephone poll data is not available for YouTube, Snapchat and WhatsApp. Comparable trend data is not available for Reddit.

Figure 13.3 Top U.S. Social Media Sites

Source: Pew Research Center. Share of U.S. adults using social media, including Facebook, is mostly unchanged since 2018. Available at <https://www.pewresearch.org/fact-tank/2019/04/10/share-of-u-s-adults-using-social-media-including-facebook-is-mostly-unchanged-since-2018/>. Accessed August 7, 2019.

social media to promote blogs, books, and presentations, and they also use them to showcase talents, connect with their followers and colleagues, and stay current on nutrition issues and trends. One interviewee stated that her site posts from followers greatly increase when she uploads pictures and videos.

Social media marketing has a high return on investment; in fact, there are often no costs at all. Consumers are leery of money-backed online advertising links or banners. After family and friends, online reviews and feedback from social media have the greatest impact on consumer purchasing decisions and beliefs about a product or service.⁴² To help guide the decision-making process, potential consumers want to read reviews written by previous customers. To keep your audience engaged and create a following, you need to consistently share timely, valuable content. Sometimes your workload and life responsibilities can make this a challenge. You can use services such as Hootsuite, Buffer, and CoSchedule to schedule social media posts in advance.

You will need to make decisions regarding the social media sites most useful for your business and periodically monitor changes in trafficking for your target audience. For example, if teens and young adults are your target audience, you would want to focus on Instagram and Snapchat, and if want to attract older adults, you should focus on Facebook.

Many health professionals have embraced the new web technologies, but others are cautious and question the legal ramifications, particularly for health professionals providing direct patient services. The Academy of Nutrition and Dietetics has a publication that offers guidance regarding ethical and legal issues related to blogging and social media.⁴³

13.7 Telehealth and Telenutrition

Health professionals are embracing the use of the electronic health system (“e-health”) to provide health care services across a variety of settings and distances. A 2015 Health Information and Management Systems Society Survey found that 90 percent of health care providers use mobile technology in their daily activities and 47 percent of respondents indicated that implementation of mobile services for access to information is a high priority at their organization.⁴⁴

The Department of Health and Human Services (HHS) defines **telehealth** as “The use of electronic information and telecommunications technologies to support remote clinical health care, patient and professional health-related education, public health and

health administration.” Telehealth refers to a broader scope of remote health care services including telemedicine, which refers specifically to remote clinical services. The Academy of Nutrition and Dietetics defines telenutrition as “the interactive use, by a RDN, of electronic information and telecommunications technologies to implement the Nutrition Care Process (nutrition assessment, nutrition diagnosis, nutrition intervention/plan of care, and nutrition monitoring and evaluation) with patients or clients at a remote location, within the provisions of their state licensure as applicable.”

Telenutrition would include such activities as synchronous video chat between a patient and a nutritionist, conferencing between other health professionals (e.g., doctors, physical therapists), and providing live or recorded presentations to groups of patients who are geographically separated. The Academy of Nutrition and Dietetics has a telehealth link on their website offering guidance and addressing legal and Health Insurance Portability and Accountability Act (HIPPA) compliance concerns.

13.8 Self-Care

As a nutrition counsellor and health care provider, we are often so focused on caring for others that we may not be giving the same attention to ourselves. Just like we recommend to our clients, we also need to eat well, exercise, practice good sleep hygiene, and use relaxation techniques. Resources at the end of the chapter provide some suggestions for addressing emotional health. Consider starting or joining a nutrition professional support group. Although online groups can be helpful, the personal contact of in-person groups is likely to make a greater impact. Taking part in such groups is particularly important if you are in private practice.

Occupational Burnout

Burnout has been defined as “the extinction of motivation or incentive, especially where one’s devotion to a cause or relationship fails to produce the desired results.”⁴⁵ The World Health Organization defines **occupational burnout** as “A syndrome conceptualized as resulting from chronic workplace stress that has not been successfully managed.”⁴⁶ An Agency for Healthcare Research and Quality Report stated that burnout among health care workers is a problem.⁴⁷ Although there is not a medical diagnosis for job burnout, it is a defined syndrome characterized by three dimensions: exhaustion (emotional, mental, and physical), cynicism, and

reduced professional efficacy.⁴⁶ The main causes of burnout are heavy workloads, lack of control regarding decisions and resources, unfair treatment, insufficient recognition and reward, relationships with coworkers, and conflict of values between worker and employer.⁴⁸

According to a 2018 Gallup Poll, improving management issues and communication in health care

facilities has been shown to reduce levels of burnout. Self-care strategies have also been found to be useful including mindfulness, goal setting, and reducing self-defeating inner dialogue.⁴⁷ As a nutrition professional, monitor your susceptibility to burnout and take action to change your employment circumstances, or your self-care practices, or both.

CASE STUDY 13.1 Interactive Personal Case Study

The objective of this experience is to use theories, strategies, and skills learned throughout your nutrition counseling and education studies and apply them to yourself. Think of yourself as the client.

PART I. Think of a time in your life when you wanted to make a lifestyle change. (You could also choose a change you are currently attempting to establish. In that case, all the following questions would be posed in the present tense, rather than the past.) For this activity, it does not matter to what degree you feel your efforts were successful. Analyze and reflect on the experience in as much detail as possible in a case study format. Number and answer each of the following questions:

1. Describe the issue:
 - a. What was the problem and why were you inspired to try to change?
 - b. Label the feelings you experienced at the time.
2. Provide background and depth to the case:
 - a. How did the issue impact your life and the lives of those close to you? What difficulties or potential problems were related to the problem?
3. Identify your motivation level at the time:
 - a. Describe your readiness for change, the degree of importance, and confidence to succeed using the Assessment Graphic, Lifestyle Management Form 4.1 in Appendix C.
4. Identify your goal or goals.
5. Analyze your approach or intervention.
 - a. What approaches or interventions did you use?
 - b. Were they appropriate for your motivational level?
6. Describe the difficulties you encountered:
 - a. What were your cues?
 - b. What were your barriers to making a behavior change?
 - c. What cognitive distortions may have hampered your progress?
 - d. What prompted lapses or a relapse?

PART II. Now imagine yourself as a counselor working with a person just like yourself at the time you were attempting the behavior change. Considering what you have learned during the course of your counseling studies, answer the following questions:

1. Which theory or theories in Chapter 2 would you want to guide your counseling approach? Explain.
2. How would you view your role as a counselor?
3. What behavior change strategies do you believe would be effective? Explain.
4. How would you assist your client in preparing for a lapse?

KEY TERMS

Biomedical Ethics: considering autonomy, non-maleficence, beneficence, and justice when providing care.

Brand Image: how you or your product are perceived by others.

Business Roadmap: a formal business plan.

Client Rights: clients have a right to confidentiality, clarification of procedures and goals, and information regarding the qualifications and practices of the health practitioner.

Code of Ethics: ethical standards published by a professional organization.

Nutrition and Dietetics Technicians, Registered (NDTR): educated and trained at the technical level of nutrition and dietetics. When working in a clinical setting NDTRs work under the supervision of a RDN.

Nutrition Therapist: nutrition counselor who incorporates the dynamics of the counseling relationship for helping clients make behavior changes.

Occupational Burnout: a syndrome resulting from chronic workplace stress that has not been successfully managed.

Registered Dietitian Nutritionist (RDN): a trained nutrition professional who has met the educational and experiential standards set forth by the Commission on Dietetic Registration (CDR) of the Academy of Nutrition and Dietetics (AND).

Scope of Practice: the range of roles, activities, and regulations within which nutrition and dietetics practitioners perform.

Social Media Marketing: uses social media to influence consumers to purchase products and services.

Telehealth: use of electronic information and telecommunications technologies to support long-distance clinical health care, patient and professional health-related education, public health, and health administration.

REVIEW QUESTIONS

1. Why did the Academy of Nutrition and Dietetics develop the Scope of Practice?
2. What are the four moral principles of biomedical ethics guiding individuals to behave in an ethical manner?
3. Why do professional organizations develop codes of ethics?

4. Identify and explain three factors clients have a right to know before engaging in a counseling relationship.
5. Why is having a well-defined focus important before starting a private practice?
6. What is a vision board and a roadmap?
7. What is a brand image?
8. What is social media marketing?
9. Describe occupational burnout.

ASSIGNMENT Evaluate Your Counseling Effectiveness

Audio- or videotape a counseling session with a volunteer client following the counseling format outlined in Chapters 4 and 5, or use one of the checklists for a counseling session found in Chapter 14. Review the tape carefully and complete the LMF 7.6 Interview Assessment Form and the LMF 7.7 Counseling Response Competency (Appendix C). Answer the following questions:

1. Explain what materials you reviewed and what educational materials or activities you prepared before meeting your client.
2. What verbal facilitation techniques and relationship-building responses appeared to work most effectively with your client? Explain why.
3. What behavior change techniques did you use?
4. How effective were these methods?
5. Are there cues or messages that you missed or interpret differently after listening to the tape?
6. Do you believe you focused on the main lifestyle issues that concerned your client?
7. Did you keep the focus of the session on your client's main issues? If yes, what did you do to keep your client on track? If not, what could you have done differently?
8. What were your impressions of the emotions expressed by your client while you listened to the tape? Were these impressions different than what you understood at the time of the counseling session?
9. What was your emotional state at the time of the session? How do you believe this impacted the course of the session?
10. What is your overall impression of how your client responded? Explain.

11. If you could redo the counseling experience, what would you do differently?
12. What did you learn from this experience?

ADDITIONAL CONSIDERATIONS OF VIDEOTAPE OBSERVATIONS

To focus on and assess the visual aspects of the counseling experience, watch your video with the sound turned off.

1. Describe your body language during the course of the counseling session. What messages do you believe your body behavior conveyed to your client?
2. Describe your client's body language during the course of the counseling session.
3. After analyzing the nonverbal behavior, did you change any of your impressions regarding the counseling encounter?

ADDITIONAL RESOURCES

Websites

Ethics Education Facilitators' Guide, www.eatrightpro.org Includes a handout, PowerPoint, and case studies.

Dietetics Career Development Guide, <https://www.eatrightpro.org/practice/career-development/career-toolbox/dietetics-career-development-guide>

Self Care, The Center for Mind Body Medicine, <https://cmbm.org/self-care/> Includes a guided imagery exercise used by health professionals.

Center for Contemplative Mind in Society, <http://www.contemplativemind.org>

Social Media for Nutrition Professionals, Healthie, <https://blog.gethealthie.com/2016/08/31/social-media-for-nutrition-professionals/> Resources for social media marketing

Nutrition Entrepreneurs, Practice group of the Academy of Nutrition and Dietetics, www.nedpg.org Resources for entrepreneurs.

Voices.com, www.voices.com/podcasting/how-to-create-a-podcast.htm A tutorial for creating your own podcast.

All About Your Own Website.Com, www.allaboutyourownwebsite.com A seven-step guide to creating a website

Blogger, www.blogger.com/start You can learn blogging basics, including how to create your own blog on this site

Building a private practice, www.UnderstandingNutrition.com

Books

Mitchell, F. B., Silver, A. M. *Making Nutrition Your Business: Private Practice and Beyond*. Academy of Nutrition and Dietetics, 2011.

REFERENCES

¹<https://www.merriam-webster.com/dictionary/professionalism>. Accessed May 4, 2019.

²Academy of Nutrition and Dietetics Quality Management Committee. Definition of Terms, June 2017. Available at <https://www.eatrightpro.org/-/media/eatrightpro-files/practice/scope-standards-of-practice/academydefinitionoftermstlist.pdf>. Accessed August 4, 2019.

³Academy of Nutrition and Dietetics: Revised 2017 Scope of Practice for the Registered Dietitian Nutritionist. *J Acad Nutr Diet.*, 2018; 118:141–165.

⁴Academy of Nutrition and Dietetics: Revised 2017 Scope of Practice for the Nutrition and Dietetics Technician, Registered. *J Acad Nutr Diet.*, 2018; 118:327–342.

⁵Academy of Nutrition and Dietetics: Revised 2017 Standards of Practice in Nutrition Care and Standards of Professional Performance for Registered Dietitian Nutritionists. *J Acad Nutr Diet.*, 2018; 118:p132–140. e15.

⁶Academy of Nutrition and Dietetics: Revised 2017 Standards of Practice in Nutrition Care and Standards of Professional Performance for Nutrition and Dietetics Technicians, Registered. *J Acad Nutr Diet.*, 2018; 118:317–326.e13.

⁷Academy of Nutrition and Dietetics. Scope of Practice Decision Algorithm. Available at: <https://www.eatrightpro.org/practice/quality-management/scope-of-practice>. Accessed July 5, 2019.

⁸Academy of Nutrition and Dietetics. Career Development Guide. Available at: <https://www.eatrightpro.org/practice/career-development/career-toolbox/dietetics-career-development-guide>. Accessed July 6, 2019.

⁹M. Velasquez, C. Andre, T. Shanks, et al., What is ethics? Markkula Center for Applied Ethics, Santa Clara University, 2010. Available at: <https://www.scu.edu/ethics/ethics-resources/ethical-decision-making/what-is-ethics/>. Accessed July 6, 2019.

¹⁰D. Derelian, Checking Your Ethics IQ. American Dietetic Association Food and Nutrition Conference and Expo Presentation, October 19, 2009.013; 113(6 suppl 2):S17–S28.

¹¹American Dietetic Association/Commission on Dietetic Registration. Code of Ethics for the Nutrition and Dietetics Profession. 2018. Available at: <https://www.eatrightpro.org/practice/code-of-ethics/what-is-the-code-of-ethics>. Accessed July 6, 2019.

¹²G. Corey, *Theory and Practice of Counseling and Psychotherapy*. 10th ed. Belmont, CA: Cengage Learning, 2016.

¹³A. Fornari, Approaches to ethical decision making. *J Am Diet Assoc.*, 2002; 102:865.

¹⁴S. Cormier, P. S. Nurius, C. J. Osborn, *Interviewing Strategies for Helpers*. 7th ed. Belmont, CA: Cengage Learning, 2016.

¹⁵D. Israel and S. Moores, *Beyond Nutrition Counseling*. Chicago: American Dietetic Association, 1996.

- ¹⁶D. Clifford and L. Curtis, *Motivational Interviewing in Nutrition and Fitness*. New York, NY: The Guilford Press, 2016.
- ¹⁷M. Kellogg, *Counseling Tips for Nutrition Therapists: Practice Workbook*, Vol 2. Philadelphia: Kg Press, 2009.
- ¹⁸OfficeTeam. Survey Shows How Clothing Choices Affect Promotion Prospects. May 16, 2013. <http://rh-us.mediaroom.com/2013-05-16-Survey-Shows-How-Clothing-Choices-Affect-Promotion-Prospects>. Accessed August 6, 2019.
- ¹⁹U.S. Small Business Administration. Office of Advocacy. Frequently Asked Questions. Available at: <https://www.sba.gov/sites/default/files/advocacy/Frequently-Asked-Questions-Small-Business-2018.pdf>. Accessed August 6, 2019.
- ²⁰Academy of Nutrition and Dietetics. Compensation and benefits survey 2017. *J Acad Nutr Diet*, 2018; 118:499–511.
- ²¹M. Gross and C. Ostrowski, Getting started in private practice: A checklist to your entrepreneurial path. *J Am Diet Assoc.*, 2008; 108:21–24.
- ²²D. Dorner, *Entrepreneurship: Six Figures or Simply Surviving*. Food and Nutrition Conference and Expo, American Dietetic Association, 2009.
- ²³J. Mathieu, Consulting do's and don'ts. *J Am Diet Assoc.*, 2008; 108:1827–1828.
- ²⁴U.S. Small Business Administration. Available at: www.sba.gov. Accessed August 6, 2019.
- ²⁵SCORE Counselors to America's Small Business. Available at: <https://www.score.org/>. Accessed August 6, 2019.
- ²⁶T. Peregrin, Business plan 2.0: putting technology to work. *J Am Diet Assoc.*, 2008; 108:212–214.
- ²⁷K. King, *Entrepreneurship: Six Figures or Simply Surviving*. Food and Nutrition Conference and Expo, American Dietetic Association, 2009.
- ²⁸J. Setnick J. *Everything I Needed to Know I Learned in Private Practice: How My Career Taught Me Life Balance*. 2009, www.understandingnutrition.com. Accessed October 30, 2010.
- ²⁹K. King, *The Entrepreneurial Nutritionist*, 4th ed. New York: Lippincott Williams & Wilkins, 2009.
- ³⁰F. B. Mitchell and A. M. Silver, *Making Nutrition Your Business: Private Practice and Beyond*. Chicago: Academy of Nutrition and Dietetics, 2010.
- ³¹J. McCaffree, Promote yourself and your profession with sound bites. *J Am Diet Assoc.*, 2009; 109:S4–S5.
- ³²U.S. Census Bureau. *Computer and Internet Use in the United States: 2016*. Issued 2018. Available at: <https://www.census.gov/content/census/en/library/publications/2018/acs/acs-39.html>. Accessed August 7, 2019.
- ³³Pew Research Internet Project. Available at: <https://www.pewresearch.org/fact-tank/2019/07/25/americans-going-online-almost-constantly/>. Accessed August 12, 2019.
- ³⁴S. Fox, The social life of health information. Pew Research Center. Available at: <http://www.pewresearch.org/fact-tank/2014/01/15/the-social-life-of-health-information/>. Accessed August 7, 2019.
- ³⁵S. Kelly, *Web Skills for Dietitians: A Guide to Creating and Evolving Your Website, Marketing Yourself, and Counseling Clients Online*, 2nd ed. Hermosa Beach, CA: Skelly Publishing, 2010.
- ³⁶Academy of Nutrition and Dietetics. Practice Paper of the Academy of Nutrition and Dietetics: Social Media and the Dietetics Practitioner: Opportunities, Challenges, and Best Practices. *J Acad Nutr Diet.*, 2016; 116:1825–1835.
- ³⁷S. Salim, Digital Information World. 2019. Available at: <https://www.digitalinformationworld.com/2019/01/how-much-time-do-people-spend-social-media-infographic.html>. Accessed August 7, 2019.
- ³⁸M. Bartnik M. *The 8 Pillars of Social Media Marketing in 2019: Learn How to Transform Your Online Marketing Strategy For Maximum Growth with Minimum Investment*. 2019.
- ³⁹Pew Research Center. Share of U.S. adults using social media, including Facebook, is mostly unchanged since 2018. Available at: <https://www.pewresearch.org/fact-tank/2019/04/10/share-of-u-s-adults-using-social-media-including-facebook-is-mostly-unchanged-since-2018/>. Accessed August 7, 2019.
- ⁴⁰Are You on Target with Your Marketing Mix? Available at: <https://www.vistaprint.com/hub/target-marketing-mix-infographic?GP=08%2f07%2f2019+22%3a21%3a51&GPS=5446144091&GNF=1>. Accessed August 7, 2019.
- ⁴¹L. Fox, Spotlight on civility: Interviews with 8 social media rock stars. *Food & Nutrition Magazine*. December 2017, available at <https://foodandnutrition.org/from-the-magazine/spotlight-civility-interviews-8-social-media-rock-stars/>. Accessed October 26, 2019.
- ⁴²The Nielsen Company. How Digital Influences how we Shop Around the World, August 2012, Available at <http://fi.nielsen.com/site/documents/NielsenGlobalDigitalShoppingReportAugust2012.pdf>. Accessed April 22, 2014.
- ⁴³J. Helm, Ethical and legal issues related to blogging and social media. *J Acad Nutr Diet.*, 2013; 113:688–690.
- ⁴⁴Health Information and Management Systems Society. Available at: www.himss.org. Accessed August 8, 2019.
- ⁴⁵E. Scott, How to Tell You Have Reached the Point of Burnout. Verywell Mind. Available at: <https://www.verywellmind.com/stress-and-burnout-symptoms-and-causes-3144516>. Accessed August 8, 2019.
- ⁴⁶World Health Organization. Burn-out an “occupational phenomenon”: International Classification of Diseases. Available at: https://www.who.int/mental_health/evidence/burn-out/en/. Accessed August 10, 2019.
- ⁴⁷A. Lyndon, Agency for Healthcare Research and Quality. U.S. Department of Health and Human Services. Perspectives on Safety Burnout among Health Professionals and Its Effect on Patient Safety, 2016. Available at: <https://psnet.ahrq.gov/perspectives/perspective/190/burnout-among-health-professionals-and-its-effect-on-patient-safety>. Accessed August 8, 2019.
- ⁴⁸C. Maslach and M. P. Leiter, Understanding the burnout experience: recent research and its implications for psychiatry. *World Psychiatry*, 2016; 15:103–111.

14

Guided Counseling Experience



LTiny/Shutterstock.com

Learning Objectives

- 14.1** Use standard counseling procedures.
- 14.2** Employ interpersonal skills.
- 14.3** Demonstrate use of basic assessment tools.
- 14.4** Employ goal setting processes.
- 14.5** Tailor educational interventions.
- 14.6** Use standard documentation procedures.
- 14.7** Evaluate counseling effectiveness.

Before everything else, getting ready is the secret of success.

—HENRY FORD

This chapter provides a guided approach for conducting four one-hour individual counseling sessions with volunteer adult clients hoping to lose weight or improve the quality of their diet. The sessions integrate material covered in all previous chapters. This guide follows the counseling protocol and the motivational counseling algorithm, Figure 4.2, presented in Chapter 4, and contains the basic elements of the counseling process generally accepted as standard. The application of commonly used nutrition assessment and counseling tools was integrated into the guide. This guided experience was designed to introduce basic nutrition counseling procedures to a college student with some knowledge of nutrition. It can be applied to other settings but was not intended to cover the spectrum of all nutrition counseling experiences.

14.1 Developing a Counseling Style

The anticipation of meeting with your client for the first time can be exciting as well as stressful. Interviewing and counseling skills take time to master, but your competence will improve with each session. There is no one perfect counseling method; however, a good place for a novice counselor to begin is with a structured, well-defined protocol. We recommend that this structured program be used as a springboard on which to build and modify individual counseling styles that mesh with your disposition and personality.

Also, you will find that adjustments are necessary to meet your clients' specific needs. For example, in this guidebook we suggest setting explicit goals. This has been found to work well for most clients. However, our experience has shown that occasionally a client will rebel against this structure and prefer to set more general goals. Your counseling strategies and style will evolve over the course of your career as you gain experience, take continuing education courses, and read educational materials. If nutrition counseling becomes a major career goal, then you may consider obtaining additional counseling credentials and establishing a relationship with a mentor.

14.2 Finding Volunteer Clients

Volunteer clients should be relatively healthy, and any expectations of weight loss should be modest. No client should be accepted into the program with severe medical problems. Any individual with a complicated medical condition should be reviewed with your instructor before proceeding. This program can be used with a friend or relative, but the impact of the learning experience

is likely to be greater if you do not know the client. Established relationships may have patterns and issues that could interfere with the counseling relationship. The process of establishing a counseling relationship is a valuable learning experience that would be lost if the counselor was closely connected to the client. An additional concern is the strain such an experience can put on a relationship if a friend or family member is having difficulty meeting his or her obligations to take part in the program. An associate that has been coerced into the program may be a reluctant client and not have the motivation to make lifestyle changes.

In our clinic, we have been successful at finding volunteers by advertising on our university campus through flyers, school newspaper stories, school radio advertisements, digital discussion lists, and classroom announcements. Student counselors schedule a counseling room for four weekly one-hour sessions. Volunteers enroll in the program during a designated registration time. Most volunteers follow through on their commitment to complete the program. However, for those who do not, we keep a record of all the potential volunteers who we were not able to accommodate during registration. Usually we are able to fill a vacancy from that record. As a last resort, a counseling student may need to secure a friend or relative to be his or her volunteer.

14.3 Goals of the Guided Counseling Experience

The overall goals of the guided counseling experience can be divided into skill goals and attitudinal goals.

Skill Goals

This program addresses the following skill goals:

- Conduct a four-session counseling program with an adult volunteer client.
- Demonstrate use of standard nutrition assessment tools: client assessment questionnaire, food frequency form, usual diet form, and computerized analysis of a three-day log.
- Use appropriate interpersonal skills for facilitation and relationship building.
- Demonstrate use of basic counseling responses.
- Tailor education approaches and intervention strategies to a client's motivational level and needs.
- Employ effective goal setting during counseling sessions.
- Effectively evaluate, document, and plan after each session.
- Provide self-assessment for counseling effectiveness.

Attitude Goals

Attitudinal goals for this intervention include the following:

- Unconditional positive regard for clients.
- Curious and nonjudgmental approach with clients.
- Desire to work in collaboration with clients.
- Willingness to learn from clients.

14.4 The Four Counseling Sessions

The following guidelines contain a **counseling checklist** describing procedures and goals for four one-hour counseling sessions. Each session has a detailed checklist to aid in the flow and pacing of a counseling session. Time frames are given for the phases to help with pacing. You may need to modify some segments of the protocol to keep the sessions moving.

Students' need and desire for structure varies. Many students welcome well-defined guidelines to visualize the flow of an intervention before meeting a client. Some students use the checklists as a reference and develop their own interview guide. The best approach is to simply have a short list of tasks on a card and take the checklist into the counseling session. Be careful not to let the tool or guide interfere with the development of a counseling relationship. Before meeting with your client, you should be so clear about your counseling approach and tasks that you only need to glance at your interview tool to stay on track. All components of the checklists are addressed in more detail in other chapters; however, those that require additional explanation for the intervention are highlighted here.

Preparation for Session 1

Certain preliminaries should be addressed before your first session. These include the following: completing a registration form. A sample registration form is found in Appendix C, LMF 14.1 Registration for Nutrition Clinic; getting your client's consent, and giving your client a welcome packet containing a LMF 5.1 Client Assessment Questionnaire, LMF 5.4 Food Frequency Questionnaire, and LMF 8.5 Medical Release to complete before the first session. During the registration process, obtain your volunteer client's consent to participate in the counseling program. Use Lifestyle Management Form 14.2 to obtain your client's **informed consent**. You need to thoroughly explain the content of the form. Adhere to the protocol in Exhibit 14.1.

If your client did not formally register for the program before your first meeting, you should call your client to arrange a registration meeting to give your

Exhibit 14.1 Informed Consent Protocol

1. Obtain two copies of the nutrition counseling agreement form, Lifestyle Management Form 14.2 (LMF 14.2).
2. Give one copy of the agreement form to your potential client to read along with you.
3. Tell the potential volunteer that the purpose of reviewing LMF 14.2 is to help the individual decide whether or not to participate in the nutrition counseling program.
4. Read your copy of LMF 14.2 out loud.
5. Periodically check for understanding. Ask, "Do you have any questions about anything I have read?"
6. Tell the potential client that participation is voluntary and that another volunteer will be available if the individual would rather not participate in the nutrition counseling program.
7. After reading through the complete nutrition counseling agreement form, ask a final time, "Do you have any questions or concerns about participating in this program?"
8. If your client indicates that he or she would prefer not to participate, thank the individual for his or her interest in the program and assure the person that another volunteer will be available.
9. If your potential client clearly states an interest in participation, ask the individual to sign two copies of LMF 14.2.
10. Give one copy of the form to the volunteer, and give one copy to your instructor.

client a welcome packet and to complete the counseling agreement form, Lifestyle Management Form (LMF) 14.2, in Appendix C. If you were not able to meet with your client for registration before the first session, your first counseling session will probably require an extra twenty minutes.

If your client formally went through the registration process with someone else, you should contact your client to verify your meeting time and place. This can be done through email or text message, but first try to call, since direct discussions are more personal and you can better answer questions through direct discussion. Your telephone conversation could go something like this:

Hello, Mrs. Jones. This is [give your full name]. I am a student at University X taking a nutrition

counseling course. I understand that you have been assigned to my time slot for nutrition counseling. I called to verify our meeting on [give day of the week and date] at [give time] in [give location]. The session should take approximately one hour. Is this OK? Have you been able to look over the forms? Do you have any questions? Please try to fill them out to the best of your ability. We will be going over them during our session. Do you know where the [name location] is? Please give me a call or text me if you have any problems keeping our meeting time. Do you have my phone number and email address? The best time to reach me is at [give time of day]. I look forward to meeting you.

Note that the Session 1 checklist indicates that you should bring copies of the forms contained in your client's welcome packet in case the forms have been forgotten.

Session 1

The involving phase for Session 1 is more extensive than subsequent sessions. During the greeting, the tone of your voice and your body language should convey the message that you are happy to meet your client. Be sure to stand and smile during the welcome and invite your client to sit down. The following are examples of possible greetings:

Good morning, Mr. Gray. I am very happy to meet you. I am Sally Mason. I hope you managed to find my office easily. May I call you Jim?

Good afternoon, Mrs. Jones! I am Sally Mason. Please come in. It is great to finally meet you. How do you prefer to be addressed? Is calling you Mrs. Jones OK?

The amount of time you will need to devote to explaining the program will depend on how much of this topic was covered during the registration process. The following are some aspects of the program you may wish to emphasize.

Overview: *The objective of the four sessions is for us to work in partnership to discover ways for you to make lifestyle changes to improve the nutritional quality of your diet and to achieve or maintain a desirable weight. This program is designed to achieve slow, steady changes.*

Nutritional Assessment: *To analyze the nutritional quality of your diet and make recommendations, it will be necessary to complete some forms. You have completed two of them already: the client assessment questionnaire and the food frequency evaluation. They were in your welcome*

packet. We will go over them today. I will also ask you to describe what you eat on a usual day. In a few weeks I will ask you to record your food intake for three days to analyze your diet with the aid of a computer program.

Educational Component: *Every session will include an educational component geared to your needs and interests. This could include short videos or reading materials.*

Goal Setting: *Each session we will evaluate the possibility of setting goals or modifying old ones based on your food habit problems and strengths.*

Food Management Options: *You have a choice in how you would like to proceed with making dietary changes. On your client assessment questionnaire, you indicated how much structure you believe would work for you.*

Audio: *I will be asking your permission to record a session to evaluate my counseling skills.*

To develop a better understanding of your client's issues, a typical day strategy (Exhibit 4.2 in Chapter 4) and usual diet method (Chapter 5) have been combined during the exploration phase. You will need to jot down notes on the usual diet form while your client is talking. Care should be taken not to let this process interfere with the flow of conversation. For example, do not ask your client to repeat something to correctly record what is usually eaten for lunch. Instead, ask clarifying questions at the conclusion of your client's story.

The resolving phase intervention is geared toward your client's degree of readiness to change. For most clients, the sequencing of the questions and topics should work well. However, you should not feel tied to the protocol. If you believe certain questions or topics would be useful to cover with your client, crossover is appropriate. The closing part of the interview is just as important as the opening. Each session should end on a positive note. The post-session activities guide you in evaluating your client's needs, assessing your intervention effectiveness, and preparing for the next session. To gain experience with two documentation methods, use both ADIME and SOAP formats for your first session. In subsequent sessions, only the ADIME format should be used for charting. See Chapter 5 for guidelines. Since Session 2 addresses physical activity, the guidelines include preparation tasks in this area.

You will also need to prepare an education intervention for your client that should last ten minutes or

less. Your guide to selecting a topic will be your discussions during Session 1, as well as the areas of interest indicated in LMF 5.1, Client Assessment Questionnaire in Appendix C. In addition, one of the post-session activities is to prepare a preliminary copy of the food management tool (detailed food plan, food group plan, or goal setting) selected by your client in the client assessment questionnaire. If your client indicated a desire to only set goals each week, then a food management tool does not need to be developed. However, care should be taken to agree on a tracking method to monitor goal achievement. Goal discussions should be approached as an experiment that will be evaluated as to what went well and what needs to be altered.

Session 2

After the opening, one of your first objectives will be to review your client's progress since the first session, and then provide the tailored educational intervention you prepared for your client. The next counseling activity will be to review the preliminary food management tool you prepared or confirm that goal setting will be the foundation for behavior change during your session. For a food management tool you prepared, discuss with your client how the tool should be used and modified. Motivated clients may wish to implement the total food plan immediately; others who are not as motivated may want to use the pattern as a picture of what the client is attempting to achieve through small steps.

Another issue to be addressed is the need to keep a food diary for at least three days to complete a computerized diet analysis. Review with your client procedures for keeping a food diary. See LMF 5.2 Food Record in Appendix C. The final part of the counseling session will be devoted to the protocol for physical activity counseling. See Chapter 8 for a review of this protocol.

Session 3

After the greeting and reviewing progress in fulfilling previously set goals, go over your client's three-day food record and verify portion sizes and preparation methods. If your client did not bring his or her records, then conduct a 24-hour recall. See Chapter 5 to review this procedure. Use LMF 5.3 24-Hour Recall, Usual Diet in Appendix C. In that case, you will do a computer analysis based on this recall rather than a three-day food record. Then proceed with the tailored education intervention you prepared for your client.

Your next activity will be to review your client's food management tool, if appropriate. Whether this

topic needs to be addressed will depend on the outcome of your food management tool discussion during the previous session. The rest of the exploration-education phase will cover the role of behavior management and the importance of a support system for making a behavior change. The following guidelines contain three behavior management strategies to discuss with your client. However, you may wish to address alternative strategies identified in Chapters 6 or 7 based on your client's needs.

Session 4

This is your final session. After greeting your client and setting the agenda, investigate your client's thoughts about his or her progress since the last session. Then assess all the goals your client is pursuing and consider altering or continuing them. Present the computerized analysis to your client, and review it point by point. Ask your client to give his or her thoughts about the feedback, and then summarize the discussion regarding the analysis.

Next, present the tailored education intervention that you prepared for your client. The last activity of the exploration-education phase is to explore some aspects of relapse prevention counseling. Specifically explain the spiral of change in Lifestyle Management Form 7.5 in Appendix C, and investigate high-risk situations that apply to your client. Discuss the concept of apparent irrelevant decisions, and identify those that could apply to your client's lifestyle change goals.

Continue with relapse prevention counseling into the resolving phase as discussed in Chapter 7. Review coping strategies to deal with the high-risk situations and seemingly irrelevant decisions that your client identified. The final counseling objective is to address cognitive restructuring. First, discuss the concept with your client, and investigate possible dysfunctional thinking patterns your client may exhibit. If this is an issue, ask your client to consider the validity of the destructive self-talk and prepare some coping strategies, such as thought stopping and alternative responses. Imagery can be used to rehearse the use of the strategies.

Ending the relationship in a meaningful manner will have a significant impact on the counseling encounter. The following guidelines contain a sequence of culminating points to address. At the end of the session, express your appreciation for your client's willingness to participate in the clinic, and present your client with a certificate of appreciation.

PREPARATION FOR SESSION 1 CHECKLIST

REGISTRATION

- ☐ Complete registration form—LMF* 14.1 Registration for Nutrition Clinic—in duplicate.
 - ☐ Give one copy to the client and one copy to the counselor.
- ☐ Complete the agreement form—LMF 14.2 Nutrition Counseling Agreement—in duplicate.
 - ☐ Adhere to the protocol for obtaining consent in preparation for Session 1 guidelines in Exhibit 14.1.
 - ☐ Both you and your client should sign each copy of the form.
 - ☐ Give a copy to your client.
- ☐ Give or send the client a welcome packet containing the following:
 - ☐ LMF 5.1 Client Assessment Questionnaire
 - ☐ LMF 5.4 Food Frequency Questionnaire
 - ☐ LMF 8.5 Medical Release

PHONE CALL

- ☐ Verify date, time, and place of the counseling session.
- ☐ Remind client about forms and inquire if there are any questions.
- ☐ Verify how to get in touch with each other if the meeting needs to be postponed.
- ☐ Express desire to meet your client.
- ☐ Send an email or text message with the above information, and request a response to verify the meeting.

PREPARATION ACTIVITIES FOR SESSION 1

- ☐ Review the following procedures/guidelines:
 - ☐ Analysis and flow of a counseling interview/counseling session (Chapter 4)
 - ☐ Nutrition Counseling Motivational Algorithm (Figure 4.2 in Chapter 4)
 - ☐ Session 1 guidelines in Chapter 14
 - ☐ "A typical day strategy" (Exhibit 4.2 in Chapter 4)
 - ☐ Goal setting process (Chapter 5)
 - ☐ MyPlate website and DASH Food Plan (Appendix A)
 - ☐ Review Session 1 checklist
- ☐ Bring copies of the following forms:
 - ☐ LMF 4.1 Assessment Graphic
 - ☐ LMF 5.1 Client Assessment Questionnaire
 - ☐ LMF 5.3 24-Hour Recall/Usual Diet Form
 - ☐ LMF 8.4 Physical Activity PAR-Q Form
 - ☐ Copy of the DASH Food Plan (Appendix A)
- ☐ Bring visuals to estimate portion size.
- ☐ Minimize distractions.
- ☐ Remind yourself of the six relationship-building responses: attending, reflection, legitimization, support, partnership, and respect.

*LMF = Lifestyle Management Form

SESSION 1 CHECKLIST	
TASK	POSSIBLE DIALOGUE
Involving Phase (10–15 minutes)	
<input type="checkbox"/> Greeting <ul style="list-style-type: none"> <input type="radio"/> Greet client verbally. <input type="radio"/> Shake hands. <input type="radio"/> Introduce yourself. <input type="radio"/> Resolve how to address each other. 	<p><i>Good morning. I'm very happy to meet you.</i></p> <p><i>How would you like to be addressed?</i></p>
<input type="checkbox"/> Small talk	<p><i>How did you hear about our program?</i></p>
<input type="checkbox"/> Investigation of client's long-term objectives, expectations, needs, and concerns. <i>If appropriate, use</i> <ul style="list-style-type: none"> <input type="radio"/> Reflection statements. <input type="radio"/> Legitimation statements. <input type="radio"/> Respect statements. <input type="checkbox"/> Summarize.	<p><i>Have you ever worked with a nutrition counselor before?</i></p> <p><i>What do you want to achieve in this program?</i></p>
<input type="checkbox"/> Explain program and counseling process. <ul style="list-style-type: none"> <input type="radio"/> Use partnership statement. 	<p><i>I'd like to tell you about the design of this program.</i></p> <p><i>My hope is that we will work together to build on skills you already have to make dietary changes.</i></p>
<input type="checkbox"/> Review weight loss expectations, if appropriate.	
<input type="checkbox"/> Discuss monitoring of weight, if appropriate.	
<input type="checkbox"/> Set agenda.	<p><i>What we will do this session is . . . review the forms you completed, go over the foods you typically eat, and set a goal, if you believe you are ready.</i></p>
Transition to Exploration-Education Phase <input type="checkbox"/> Transition statement	<p><i>Now that we have gone over the basics of the program, we will explore your needs in greater detail.</i></p>
Exploration-Education Phase (25 minutes)	
<input type="checkbox"/> Review completed Client Assessment Questionnaire, LMF 5.1. <ul style="list-style-type: none"> <input type="radio"/> Clarify any highlights on the form. 	<p><i>I am wondering what came to your mind as you were completing this form.</i></p> <p><i>What topics in this form do you think have particular importance for your food issues?</i></p>
<input type="checkbox"/> A Typical Day <ul style="list-style-type: none"> <input type="radio"/> Interrupt as little as possible. <input type="radio"/> Do not impose your ideas. <input type="radio"/> Speed up the pace, if necessary. <input type="radio"/> Summarize. 	<p><i>Can you take me through a typical day so I can understand more fully what happens and tell me where eating fits into the picture?</i></p> <p><i>Start with when you get up.</i></p> <p><i>Is there anything else you would like to add?</i></p>

Exploration-Education Phase (25 minutes) (continued)	
<input type="checkbox"/> Complete 24-Hour Recall, Usual Diet Form, LMF 5.3. <ul style="list-style-type: none"> ○ Fill in during a Typical Day review. ○ Clarify; ask questions after your client has completed his or her description. 	<i>How was the chicken cooked?</i>
<input type="checkbox"/> Review completed Food Frequency Questionnaire, LMF 5.4. <ul style="list-style-type: none"> ○ Clarify portion sizes; use visuals. ○ Clarify preparation methods. ○ If client did not complete, use only the 24-Hour, Usual Diet form, LMF 5.3, completed during the typical day discussion to provide feedback. 	<i>Thank you for completing this questionnaire.</i> <i>What came to your mind as you were filling it out?</i> <i>Did you feel a need to clarify or expand on anything?</i>
<input type="checkbox"/> Provide Feedback and Education <ul style="list-style-type: none"> ○ Review totals on the bottom of LMF 5.3, 24-Hour Recall, Usual Diet. ○ Compare LMF 5.3 and LMF 5.4 to recommended intakes for 2,000 calorie diet. Discuss each point, nonjudgmentally. ○ Clarify when needed. ○ Ask opinion of comparison. ○ Give your opinion, if requested. ○ Summarize. 	<i>What do you think about the comparison?</i>
<input type="checkbox"/> What's next?	<i>How would you like to proceed?</i>
<input type="checkbox"/> Check readiness with Assessment Graphic, LMF 4.1. <ul style="list-style-type: none"> ○ Check importance. ○ Check confidence. 	<i>To get a better idea of how ready you are to make a change, we will use this picture of a ruler. If 0 is not ready at all and 10 is ready, where are you?</i> <i>Using the same scale, how do you feel right now about how important this change is for you? How confident are you that you can make this change?</i>
Transition to Resolving Phase <input type="checkbox"/> Transition statement.	<i>Now I'd like to talk more about the possibility of changing your food patterns.</i>
Resolving Phase (15 minutes)	
Level 1—Not Ready (1–3 on LMF 4.1 Assessment Graphic)	
<input type="checkbox"/> Raise awareness. <input type="checkbox"/> Personalize benefits. <input type="checkbox"/> Request permission to discuss the possibility of a change.	<i>Summarize benefits of following MyPlate.gov food groups, DASH Food Plan, or goal setting.</i> <i>Because of (family history, past concerns, present medical problems), you would benefit from . . .</i> <i>Would you like to discuss the possibility of such a change?</i>

Resolving Phase (15 minutes) (continued)	
<input type="checkbox"/> Ask key open-ended questions. <ul style="list-style-type: none"> ○ Discuss importance. ○ Identify motivating factors. <input type="checkbox"/> Summarize. <input type="checkbox"/> Ask permission to give advice. <input type="checkbox"/> Express support.	<p><i>What do you believe will happen if you don't change? Why did you pick 3 and not 1 on the graphic? What would have to happen for you to move up to the number 8?</i></p> <p><i>It's up to you—you know best—but small changes can make a difference. You probably need some time to think about this.... Do not hesitate to call me if you have any questions.</i></p>
Level 2—Unsure (4–7 on LMF 4.1 Assessment Graphic)	
<input type="checkbox"/> Raise awareness. <input type="checkbox"/> Ask key open-ended questions; promote change talk. <ul style="list-style-type: none"> ○ Explore confidence. ○ Explore barriers. <input type="checkbox"/> Examine pros and cons. <ul style="list-style-type: none"> ○ Summarize. ○ Imagine the future. ○ Explore past successes. ○ Explore social supports. ○ Summarize. ○ Ask about next step—go to goal setting in Level 3, if appropriate. 	<p><i>Summarize benefits of following MyPlate, DASH Food Plan, or goal setting. Why did you rate your confidence as a 6 instead of a 1 on the ruler? What would you need to get to 10 on the graphic? What is preventing you from making changes?</i></p> <p><i>What do you like about your present diet? Dislike? Advantages of changing? Disadvantages? What would your life be like if ...? What is the first thing you notice? How do you feel? Were you ever able to ...? Do you have someone who could support you?</i></p>
Level 3—Ready (8–10 on LMF 4.1 Assessment Graphic)	
<input type="checkbox"/> Praise positive behaviors. <input type="checkbox"/> Explore change options to develop a broadly stated goal. <ul style="list-style-type: none"> ○ Elicit client's thoughts. ○ Make an options tool, if appropriate. ○ Probe for concerns about the selected option. <input type="checkbox"/> Explain goal setting basics. <input type="checkbox"/> Identify a specific goal. Consider setting the goal as an experiment, especially if your client appears unsure. <ul style="list-style-type: none"> ○ Small talk. ○ Look to the past. ○ Build on the past. <p>The stated goal is:</p> <ul style="list-style-type: none"> ○ Achievable. ○ Measurable. ○ Totally under client's control. ○ Stated positively. 	<p><i>It is so good that you . . .</i></p> <p><i>Do you have an idea of what will work for you? This is an options tool. Let's brainstorm ideas, and we'll write them in the circles. This seems to be the best choice, but will it work for you?</i></p> <p><i>What is the smallest goal you believe is worth pursuing? When have you eaten . . . before? Explain how it happened that you ate . . . Would this work for someone else? How do you feel about setting your goal as an experiment? Next week we could talk about what went well and what needs adjustment.</i></p>

Resolving Phase (15 minutes) (continued)	
<input type="checkbox"/> Develop an action plan. <ul style="list-style-type: none"> <input type="radio"/> Investigate physical environment. <input type="radio"/> Examine social support. <input type="radio"/> Review cognitive environment. Explain positive coping talk, if necessary. <input type="checkbox"/> Select tracking technique—chart, journal, smartphone app, etc. <input type="checkbox"/> Ask your client to verbalize the goal. <input type="checkbox"/> Write down the goal on a card and give it to your client.	<p><i>Do you have everything you need?</i> <i>Is there anyone who can help you achieve your goal?</i> <i>What are you saying to yourself right now about this goal?</i></p> <p><i>Just to be sure we are both clear about your goal, could you please state the goal?</i></p>
Closing Phase (5 minutes)	
<input type="checkbox"/> Support self-efficacy. <input type="checkbox"/> Review issues and strengths. <input type="checkbox"/> Use a relationship-building response (respect). <input type="checkbox"/> Restate food goal. <input type="checkbox"/> Give LMF 8.4 Physical Activity PAR-Q Form. <input type="checkbox"/> Review next meeting time. <input type="checkbox"/> Set date and time to call or another method to confirm meeting. <input type="checkbox"/> Shake hands. <input type="checkbox"/> Express appreciation for participation. <ul style="list-style-type: none"> <input type="radio"/> Use support and partnership statement. 	<p><i>I think we did a good job selecting a goal that will work for you.</i> <i>I am very impressed with . . .</i></p> <p><i>Thank you so much for your participation in this program.</i> <i>I look forward to working with you.</i></p>

POST-SESSION I

Congratulations! You have just finished your first nutrition counseling session. It is now time to reflect, evaluate, document, and plan for the next session.

EVALUATE AND DOCUMENT SESSION 1

- ☐ Complete the following forms:
 - ☐ LMF 5.6 Client Concerns and Strengths Log
 - ☐ LMF 7.6 Interview Assessment Form
- ☐ Document the session twice by using SOAP and ADIME format.

PLAN FOR SESSION 2

- ☐ Prepare a preliminary copy of your client's food monitoring tool unless your client will only be setting goals.
- ☐ Calculate your client's exercise target zone (Chapter 8).
- ☐ Prepare an education intervention, according to the needs and desires of your client as indicated in the Client Assessment Questionnaire, LMF 5.1, and your discussions.

PREPARATION ACTIVITIES FOR SESSION 2

- ☐ Review the following procedures/guidelines:
 - ☐ Session 2 guidelines found in the beginning of this chapter
 - ☐ Session 2 checklist in Chapter 14
 - ☐ Physical Activity Algorithm, Figure 8.2, and protocols (Chapter 8)
 - ☐ Goal setting process (Chapter 5)
 - ☐ Food diary guidelines (Chapter 5)
 - ☐ SOAP and ADIME notes from Session 1
- ☐ Bring copies of the following forms:
 - ☐ LMF 4.1 Assessment Graphic
 - ☐ LMF 8.1 Benefits of Regular Moderate Physical Activity
 - ☐ LMF 8.2 Physical Activity Log
 - ☐ LMF 8.3 Physical Activity Options
 - ☐ LMF 8.4 Physical Activity Readiness-Questionnaire, PAR-Q Form
 - ☐ LMF 8.6 Physical Activity Assessment and Feedback Form, two copies
 - ☐ LMF 5.2 Food Record
 - ☐ Preliminary copy of your client's food-monitoring tool
 - ☐ Calculated BMI
- ☐ Bring visuals to estimate portion size.
- ☐ Minimize distractions.
- ☐ Remind yourself of the six relationship-building responses: attending, reflection, legitimization, support, partnership, and respect.

SESSION 2 CHECKLIST	
TASK	POSSIBLE DIALOGUE
Involving Phase (5 minutes)	
<input type="checkbox"/> Greeting <ul style="list-style-type: none"> <input type="radio"/> Extend verbal greeting. <input type="radio"/> Shake hands. 	<i>Good morning. It is nice to see you again.</i>
<input type="checkbox"/> Set agenda.	<i>In the session today, I thought we would review how your goal worked out this week, go over [client's requested educational need], discuss the food management tool you indicated that you desired, review how to keep a food diary, and then discuss physical activity. How does this sound?</i>
Transition to Exploration-Education Phase <input type="checkbox"/> Transition statement	<i>So let's move on. First I'd like to address last week's goal.</i>
Exploration-Education Phase (25 minutes)	
<input type="checkbox"/> Investigation of client thoughts about the week. If appropriate, use <ul style="list-style-type: none"> <input type="radio"/> Reflection statements. <input type="radio"/> Legitimation statements. <input type="radio"/> Respect statements. 	<i>How did your week go?</i> <i>Let's look at the assessment graphic. What number would you pick to describe how closely you have been following your plan?</i> <i>So you feel good about your diet, but you are not sure if you can keep it going?</i>
<input type="checkbox"/> Evaluate effectiveness of plan. <ul style="list-style-type: none"> <input type="radio"/> Identify barriers to goal achievement. <input type="radio"/> Clarify client strengths and weaknesses. <input type="checkbox"/> Summarize—keep present goal or modify.	<i>So overall this week you . . .</i>
<input type="checkbox"/> Tailor educational experience. <input type="checkbox"/> Determine appropriate food management tool. <ul style="list-style-type: none"> <input type="radio"/> Show preliminary food pattern based on indicated pattern. <input type="radio"/> If appropriate, review each tool (detailed plan, food groups, only goal setting). <input type="radio"/> Identify advantages and disadvantages, if appropriate. 	<i>On your Client Assessment Questionnaire, you indicated that you wanted some structure, but freedom to select foods from food groups. I prepared a preliminary food management tool based on the DASH Food Plan. I thought we could discuss the plan today to see whether this is truly what you think would be useful to you, and adjust it according to what you believe would work for you. We could use this plan in two ways: (1) It could be a defined pattern that you would try to implement immediately. (2) It could also be used as a tool that we periodically review to identify what we are working toward.</i>
<input type="checkbox"/> Instructions on use of tool (detailed plan, exchanges, food groups, only goal setting), if appropriate.	

Exploration-Education Phase (25 minutes) (continued)

<input type="checkbox"/> Food Diary/Food Record <ul style="list-style-type: none"> <input type="radio"/> Give instructions, LMF 5.2 Food Record <input type="radio"/> Select length of time (need three days for computer analysis). <input type="radio"/> State purpose of computer analysis. <input type="radio"/> If your client is using a smartphone app, you could explore the possibility of a share option. 	<p><i>Keeping a food diary is an excellent way to monitor and influence your eating habits. I really encourage you to keep records periodically. For the purpose of the computer analysis, I hope I can get you to do the analysis for three days. What do you think?</i></p>
<input type="checkbox"/> Provide physical activity feedback. <ul style="list-style-type: none"> <input type="radio"/> Discuss BMI and health. <input type="radio"/> Collect LMF 8.4 Physical Activity Readiness-Questionnaire, PAR-Q Form. <input type="radio"/> Complete LMF 8.6 in duplicate. Give one to the client. <input type="checkbox"/> Ask opinion of comparison. <input type="checkbox"/> Give your opinion, if appropriate. <input type="checkbox"/> Summarize.	<p><i>What do you think about this comparison? Does this information surprise you?</i></p>

Transition to Resolving Phase

<input type="checkbox"/> Transition statement	<i>Now I'd like to talk about any changes you would like to make.</i>
---	---

Resolving Phase (25 minutes)**Level 1—Not Ready (1–3 on LMF 4.1 Assessment Graphic)**

<input type="checkbox"/> Summarize benefits of physical activity; use LMF 8.1. <input type="checkbox"/> Personalize benefits to health status. <input type="checkbox"/> Request permission to discuss possibility of change. <input type="checkbox"/> Ask key open-ended questions. <ul style="list-style-type: none"> <input type="radio"/> Discuss importance/reasons to be physically active. <input type="radio"/> Elicit barriers to physical activity. <input type="checkbox"/> Summarize. <input type="checkbox"/> Ask permission to give advice, if appropriate. <input type="checkbox"/> Give advice. <input type="checkbox"/> Support self-efficacy.	<p><i>Would you be willing to discuss the possibility of a change in your physical activity patterns?</i></p> <p><i>What benefits of physical activity do you believe most likely apply to you? Why did you pick 3 and not 1 on the assessment graphic?</i></p> <p><i>What would have to happen for you to move up to the number 8?</i></p> <p><i>It's up to you—you know best—but small changes can make a difference. I really admire how you. . . . Look how capable you are when you. . . . You have the resources to be physically active. When you are ready, you will be able to increase your physical activity.</i></p>
--	--

Resolving Phase (25 minutes) (continued)**Level 2—Unsure (4–7 on LMF 4.1 Assessment Graphic)**

- ☐ Raise awareness.
- ☐ Ask key open-ended questions to explore ambivalence.
 - ☐ Identify disadvantages of changing.
 - ☐ Explore consequences of inactivity.
 - ☐ Identify anticipated benefits.
- ☐ Explore past successes.
- ☐ Imagine the future.
- ☐ Summarize ambivalence.
- ☐ Ask about next step—go to goal setting in Level 3, if appropriate.

Summarize benefits of physical activity.
What are some reasons you would like things to stay just like they are?
What concerns do you have about not increasing your activity?
What good things would happen if you were more physically active?

Have you ever been physically active?
Have you ever enjoyed a particular physical activity?
What would your life be like if . . . ? What is the first thing you notice? How do you feel?

Level 3—Ready (8–10 on LMF 4.1 Assessment Graphic)

- ☐ Praise positive behaviors.
- ☐ Review current activity program.
- ☐ Validate physician approval.
 - ☐ Explore change options to develop a broadly stated goal.
 - ☐ Elicit client's thoughts.
 - ☐ Look to the past.
 - ☐ Go over list of possibilities. (See LMF 8.3 Physical Activity Options.)
- ☐ Client selects an appropriate activity goal.
Do not set a goal if physician approval was not obtained.
- ☐ Explain goal setting basics, if appropriate.
 - ☐ Identify a specific physical activity goal.
 - ☐ Small talk.
 - ☐ Look to the past.
 - ☐ Stated goal is achievable, measurable, totally under client's control, and stated positively.
- ☐ Develop an action plan.
 - ☐ Discuss target heart rate zone.
 - ☐ Investigate physical environment.
 - ☐ Examine social support.
 - ☐ Review cognitive environment.
 - ☐ Explain positive coping talk, if necessary.
 - ☐ Discuss target heart rate zone.
- ☐ Select tracking technique—chart, journal, smart-phone app, etc.
- ☐ Ask your client to verbalize the goal.
- ☐ Write down the goal on a card and give it to your client.

Do you have an idea of what will work for you?
What activities have you enjoyed in the past?
Here are some options.

This seems to be the best choice, but will it work for you?

What is the smallest physical activity goal you believe is worth pursuing?
When have you exercised before?
Would this goal work for someone else?

Do you have everything you need? Do you have walking shoes?
Is there anyone who could help you achieve your goal?
What will you say to yourself if you miss a day that you planned to walk?

Just to be sure we are both clear about your goal, could you please restate the goal?

Resolving Phase (25 minutes) (continued)**Level 4—Active**

- ☐ Praise positive behaviors.
- ☐ Review current activity program.
- ☐ Review sport-specific nutrient needs.
- ☐ Relapse prevention.
 - ☐ Explain relapse prevention.
 - ☐ Use Assessment Graphic, LMF 4.1, to assess confidence to continue.
 - ☐ Identify barriers.
 - ☐ Explore solutions to barriers.
 - ☐ Explain that setbacks are common.
 - ☐ Identify social supporters.
- ☐ Identify a specific goal and action plan, if appropriate.
- ☐ Go to goal setting in Level 3, if appropriate.

It is wonderful that you have such a physically active lifestyle.

Let's look at how confident you are that you can maintain your level of activity.

Why did you choose 9 instead of 10?

*Do you have any ideas of how to overcome difficulties with . . . ?
Set backs are to be expected. It is important to just start up again.*

Closing Phase (5 minutes)

- ☐ Support self-efficacy.
- ☐ Review issues and strengths.
- ☐ Use a relationship-building response (respect).
- ☐ Restate goals:
 - ☐ Food goal
 - ☐ Food diary
 - ☐ Exercise goal
- ☐ Review next meeting time.
- ☐ Discuss video or audio recording session 3 or 4.
- ☐ Shake hands.
- ☐ Express appreciation for participation.
 - ☐ Use support and partnership statement.

I am very impressed with . . .

I have really enjoyed working with you. If you have any questions or concerns, do not hesitate to contact me.

POST-SESSION 2

EVALUATE AND DOCUMENT SESSION 2

- ☐ Complete LMF 7.6 Interview Assessment Form.
- ☐ Document session using ADIME format.

PLAN FOR SESSION 3

- ☐ Make adjustments to your client's food monitoring tool, if necessary.
- ☐ Prepare an education intervention as indicated in the Client Assessment Questionnaire and your discussions.

PREPARE FOR SESSION 3

- ☐ Review the following procedures/guidelines:
 - ☐ Analysis and flow of counseling interview/counseling session (Chapter 4).
 - ☐ Nutrition Counseling Motivational Algorithm (Figure 4.2 in Chapter 4).
 - ☐ Goal setting process (Chapter 5).
 - ☐ Session 3 guidelines and checklist (Chapter 14).
 - ☐ Cue management, countering, and barriers counseling (Chapter 6).
- ☐ Social support and social disclosure (Chapter 7).
- ☐ Review your notes from Sessions 1 and 2.
- ☐ Bring copies of the following forms:
 - ☐ LMF 4.1 Assessment Graphic.
 - ☐ LMF 5.3 24-Hour Recall/Usual Diet Form—This form will be used to complete a 24-hour recall if your client does not bring three-day food records.
- ☐ Bring visuals to estimate portion size.
- ☐ Bring visuals for tailored education intervention.
- ☐ Bring audio or video recorder if taping session 3.
- ☐ Minimize distractions.
- ☐ Remind yourself of the six relationship-building responses: attending, reflection, legitimization, support, partnership, and respect.

SESSION 3 CHECKLIST	
TASK	POSSIBLE DIALOGUE
Involving Phase (5 minutes)	
<input type="checkbox"/> Greeting <ul style="list-style-type: none"> <input type="radio"/> Verbal greeting. <input type="radio"/> Shake hands. <input type="checkbox"/> Set agenda.	<p><i>Good morning. It is nice to see you again.</i></p> <p><i>In the session today, I thought we would review how your goal/s worked out this week, go over [client's requested educational need], go over food recordkeeping for computer analysis of your food intake, discuss some behavioral approaches to modifying food intake, and talk about social support.</i></p>
Transition to Exploration-Education Phase <input type="checkbox"/> Transition statement.	<p><i>I'd like to start by asking about your week.</i></p>
Exploration-Education Phase (25 minutes)	
<input type="checkbox"/> Investigate client thoughts about the week. <input type="checkbox"/> If appropriate, use: <ul style="list-style-type: none"> <input type="radio"/> Reflection statements. <input type="radio"/> Legitimation statements. <input type="radio"/> Respect statements. 	<p><i>How did your week go?</i></p>
<input type="checkbox"/> Assess adherence to goals using LMF 4.1. <ul style="list-style-type: none"> <input type="radio"/> Food goal. <input type="radio"/> Exercise goal. <input type="radio"/> Identify barriers to goal achievement. <input type="radio"/> Clarify client strengths and weaknesses. <input type="radio"/> Summarize—keep present goals or modify. <input type="checkbox"/> Review food diary: <ul style="list-style-type: none"> <input type="radio"/> Portion sizes. <input type="radio"/> Preparation methods. <input type="radio"/> Condiments. <input type="checkbox"/> Tailor education intervention.	<p><i>Let's look at the assessment graphic again. What number would you pick to describe how closely you have been following your plan?</i></p> <p><i>So you feel good about your diet, but you are not sure if you can keep it going?</i></p> <p><i>So overall this week you . . .</i></p>
<input type="checkbox"/> Review food management tool, if appropriate. <input type="checkbox"/> Discuss role of behavior in food choices: <ul style="list-style-type: none"> <input type="radio"/> Cue management. <input type="radio"/> Countering. <input type="radio"/> Barriers management. 	
<input type="checkbox"/> Discuss importance of support system and possible supports: <ul style="list-style-type: none"> <input type="radio"/> Support buddies. <input type="radio"/> Organizations. <input type="radio"/> Self-help groups. <input type="radio"/> Classes. <input type="checkbox"/> Social disclosure.	

Exploration-Education Phase (25 minutes) (continued)	
Transition to Resolving Phase <input type="checkbox"/> Transition statement.	<i>Now, I would like to talk about any specific changes you would like to make.</i>
Resolving Phase (25 minutes)	
<input type="checkbox"/> Identify a specific goal. <ul style="list-style-type: none"> <input type="radio"/> Select a new or modify a previous goal. <input type="radio"/> Review options tool, if appropriate. <input type="radio"/> Engage in small talk. <input type="radio"/> Look to the past. <input type="radio"/> Build on the past. <input type="radio"/> Make sure the stated goal is achievable, measurable, totally under client's control, and stated positively. 	<i>What is the smallest goal you believe is worth pursuing? When have you eaten . . . before? Explain how it happened that you ate . . . before. Would this work for someone else?</i>
<input type="checkbox"/> Develop an action plan. <ul style="list-style-type: none"> <input type="radio"/> Investigate physical environment. <input type="radio"/> Examine social support. <input type="radio"/> Review cognitive environment. Explain positive coping talk, if necessary. <input type="checkbox"/> Select a tracking technique—chart, journal, smartphone app, etc. <input type="checkbox"/> Do a microanalysis of a scenario; review the plan step by step. <input type="checkbox"/> Ask your client to verbalize the goal. <input type="checkbox"/> Write down the goal on a card and give it to your client.	
Closing Phase (5 minutes)	
<input type="checkbox"/> Support self-efficacy. <input type="checkbox"/> Review issues and strengths. <input type="checkbox"/> Use a relationship-building response (respect). <input type="checkbox"/> Restate food, exercise, and behavior goals. <input type="checkbox"/> Review next meeting time. <input type="checkbox"/> Set date/time to call or text with a reminder. <input type="checkbox"/> Shake hands. <input type="checkbox"/> Express appreciation for participation. <input type="checkbox"/> Use support and partnership statement.	<i>I am very impressed with . . .</i>

POST-SESSION 3

EVALUATE AND DOCUMENT SESSION 3

- ☐ Complete the following forms:
 - ☐ Complete LMF 7.6 Interview Assessment Form.
 - ☐ Document session using ADIME format.

PLAN FOR SESSION 4

- ☐ Make adjustments to your client's food monitoring tool, if necessary.
- ☐ Prepare an education intervention as indicated in the Client Assessment Questionnaire and your discussions.
 - ☐ Complete a computer analysis of the food diary data.

PREPARE FOR SESSION 4

- ☐ Review the following procedures/guidelines:
 - ☐ Analysis and flow of counseling interview/counseling session (Chapter 4).
 - ☐ Nutrition Counseling Motivational Algorithm (Figure 4.2 in Chapter 4).
 - ☐ Session 4 guidelines and checklist (Chapter 14).
 - ☐ Modifying Cognitions and Problem Solving (Chapter 6).
 - ☐ Relapse Prevention (Chapter 7).
 - ☐ Ending the Counseling Relationship (Chapter 7).
 - ☐ Goal setting process (Chapter 5).
- ☐ Review your notes from Sessions 1, 2, and 3.
- ☐ Bring copies of the following forms:
 - ☐ LMF 7.5, Prochaska and DiClemente's Spiral of Change.
- ☐ Bring visuals to estimate portion size.
- ☐ Bring audio or video recorder if taping session 4.
- ☐ Minimize distractions.
- ☐ Remind yourself of the six relationship-building responses: attending, reflection, legitimization, support, partnership, and respect.

SESSION 4 CHECKLIST

TASK	POSSIBLE DIALOGUE
Involving Phase (5 minutes)	
<input type="checkbox"/> Greeting <ul style="list-style-type: none"> <input type="radio"/> Verbal greeting. <input type="radio"/> Shake hands. 	<i>Good morning. It is nice to see you again.</i>
<input type="checkbox"/> Set agenda.	<i>Let's discuss your concerns about this past week, how the goals and action plan worked out, your computerized diet analysis, relapse prevention, and cognitive restructuring.</i>
Transition	
<input type="checkbox"/> Transition statement	<i>So let's move on and take a look at your week.</i>
Exploration-Education Phase (5 minutes)	
<input type="checkbox"/> Investigate client thoughts about the week. <input type="checkbox"/> Summarize. <input type="checkbox"/> Assess present regimen: <ul style="list-style-type: none"> <input type="radio"/> Food goals. <input type="radio"/> Physical activity. <input type="radio"/> Behavior strategy. <input type="radio"/> Continue or change. <input type="checkbox"/> Review computerized analysis: <ul style="list-style-type: none"> <input type="radio"/> Compare to standard. <input type="radio"/> Highlight areas of concern. <input type="radio"/> Provide feedback, education. <input type="radio"/> Ask opinion of comparison. <input type="radio"/> Give your opinion, if appropriate. <input type="checkbox"/> Summarize. <input type="checkbox"/> Tailor education intervention. <input type="checkbox"/> Relapse prevention. <ul style="list-style-type: none"> <input type="radio"/> Describe behavior change and relapse—show LMF 7.5 Prochaska and DiClemente's Spiral of Change. <input type="radio"/> Identify high-risk situations. <input type="radio"/> Determine seemingly irrelevant decisions. 	<p><i>So overall this week you . . .</i></p> <p><i>What do you think about the analysis?</i></p> <p><i>Behavior change can be compared to a journey. . .</i></p> <p><i>When are you likely to have the greatest difficulty keeping your goals?</i></p> <p><i>Sometimes problems occur because of small decisions that seem harmless on the surface.</i></p>
Transition to Resolving Phase	
<input type="checkbox"/> Transition statement	

Resolving Phase (25 minutes)

- ☐ Coping strategies
 - ☐ Urge management: contract, countering, urge surfing.
- ☐ Cognitive restructuring counseling:
 - ☐ Educate about the process.
 - ☐ Investigate dysfunctional thinking patterns.
 - ☐ Explore validity of self-destructive statements.
 - ☐ Explain thought stopping.
 - ☐ Prepare constructive responses.
 - ☐ Use imagery.

Ending the Counseling Relationship

- ☐ Review the issues that brought your client to you in the first place.
- ☐ Identify goals and progress in meeting them.
- ☐ Emphasize success.
- ☐ Summarize current status.
- ☐ Explore the future.
- ☐ Provide and elicit feedback regarding the significance of the relationship.
- ☐ Summarize.

Some people are surprised to learn that what they are thinking can influence their ability to make lifestyle changes. Many people are not aware that thinking patterns can be changed. We are not obligated to keep a thought in our head.

Closing Phase (5 minutes)

- ☐ Support self-efficacy.
- ☐ Use a relationship-building response (respect).
- ☐ Shake hands.
- ☐ Express appreciation for participation.
- ☐ Give a certificate of appreciation.

POST-SESSION 4

Now that you have completed the four-session program, take time to reflect and evaluate the experience.

EVALUATE AND DOCUMENT SESSION 4

- ☐ Complete the following forms:
 - ☐ Complete LMF 7.6 Interview Assessment Form.
 - ☐ Document session using ADIME format.
 - ☐ Complete LMF 7.7 Counseling Responses Competency Assessment.

EVALUATE THE TOTAL COUNSELING INTERVENTION

- ☐ Complete the Chapter 13 assignment, "Evaluate Your Counseling Effectiveness."
- ☐ Reflect on the entire four-session program, and answer the following questions:
 1. Describe your best counseling experience. What did you specifically say or do to facilitate the positive interaction? Give examples.
 2. Describe any behavioral strategies you used during the intervention. Were they effective? Explain.
 3. Describe any difficulties you encountered. What do you believe caused them? Is there anything you could have done differently to prevent or alleviate the impact of the difficulties?
 4. What did you learn from this experience?

KEY TERMS

Counseling Checklists: step-by-step counseling guides.

Informed Consent: sufficient information was supplied to a participant for making a decision regarding a course of action.

Appendices

- A** DASH Food Plan
- B** Body Mass Index
- C** Lifestyle Management Forms
- D** Dietary Reference Intakes (DRI)



DASH Food Plan

Dietary Approaches to Stop Hypertension (DASH) is a heart-healthy dietary regimen rich in fruits, vegetables, fiber, and low-fat dairy foods and low in saturated and total fat. Although the DASH food plan was developed to address high blood pressure, the plan has been found to be useful for everyone to guide healthful eating. The booklet *In Brief: Your Guide to Lowering Your Blood Pressure With DASH* is available from the National Heart Lung and Blood Institute website.

The recommended servings of food groups according to calorie intake can be found in Table A.1.

The food management tool *What's on Your Plate and How Much Are You Moving?* can be used by clients to both record food intake and identify food group servings. The number of servings indicated on the following form contain food group guidelines for a 2,000 calories intake. You will need to adjust the servings and the calories, as indicated in Table A.1, for clients who need a different level of calorie intake.

Table A.1 DASH Eating Plan

Following the DASH Eating Plan

Use this chart to help you plan your menus—or take it with you when you go to the store.

Food Group	Servings Per Day			Serving Sizes	Examples and Notes	Significance of Each Food Group to the DASH Eating Plan
	1,600 Calories	2,000 Calories	2,600 Calories			
Grains*	6	6–8	10–11	1 slice bread 1 oz dry cereal† ½ cup cooked rice, pasta, or cereal	Whole wheat bread and rolls, whole wheat pasta, English muffin, pita bread, bagel, cereals, grits, oatmeal, brown rice, unsalted pretzels and popcorn	Major sources of energy and fiber
Vegetables	3–4	4–5	5–6	1 cup raw leafy vegetable ½ cup cut-up raw or cooked vegetable ½ cup vegetable juice	Broccoli, carrots, collards, green beans, green peas, kale, lima beans, potatoes, spinach, squash, sweet potatoes, tomatoes	Rich sources of potassium, magnesium, and fiber
Fruits	4	4–5	5–6	1 medium fruit ¼ cup dried fruit ½ cup fresh, frozen, or canned fruit ½ cup fruit juice	Apples, apricots, bananas, dates, grapes, oranges, grapefruit, grapefruit juice, mangoes, melons, peaches, pineapples, raisins, strawberries, tangerines	Important sources of potassium, magnesium, and fiber
Fat-free or low-fat milk and milk products	2–3	2–3	3	1 cup milk or yogurt 1½ oz cheese	Fat-free (skim) or low-fat (1%) milk or buttermilk; fat-free, low-fat, or reduced-fat cheese; fat-free or low-fat regular or frozen yogurt	Major sources of calcium and protein
Lean meats, poultry, and fish	3–6	6 or less	6	1 oz cooked meats, poultry, or fish 1 egg‡	Select only lean meats; trim away visible fat; broil, roast, or poach; remove skin from poultry	Rich sources of protein and magnesium
Nuts, seeds, and legumes	3 per week	4–5 per week	1	½ cup or 1½ oz nuts 2 Tbsp peanut butter 2 Tbsp or ½ oz seeds ½ cup cooked legumes (dry beans and peas)	Almonds, hazelnuts, mixed nuts, peanuts, walnuts, sunflower seeds, peanut butter, kidney beans, lentils, split peas	Rich sources of energy, magnesium, protein, and fiber
Fats and oils§	2	2–3	3	1 tsp soft margarine 1 tsp vegetable oil 1 Tbsp mayonnaise 2 Tbsp salad dressing	Soft margarine, vegetable oil (such as canola, corn, olive, or safflower), low-fat mayonnaise, light salad dressing	The DASH study had 27 percent of calories as fat, including fat in or added to foods
Sweets and added sugars	0	5 or less per week	≤2	1 Tbsp sugar 1 Tbsp jelly or jam ½ cup sorbet, gelatin 1 cup lemonade	Fruit-flavored gelatin, fruit punch, hard candy, jelly, maple syrup, sorbet and ices, sugar	Sweets should be low in fat

* Whole grains are recommended for most grain servings as a good source of fiber and nutrients.

† Serving sizes vary between ½ cup and 1¼ cups, depending on cereal type. Check the product's Nutrition Facts label.

‡ Because eggs are high in cholesterol, limit egg yolk intake to no more than four per week; two egg whites have the same protein content as 1 oz of meat.

§ Fat content changes serving amount for fats and oils. For example, 1 Tbsp of regular salad dressing equals one serving; 1 Tbsp of a low-fat dressing equals one-half serving; 1 Tbsp of a fat-free dressing equals zero servings.

Abbreviations: oz = ounce; Tbsp = tablespoon; tsp = teaspoon

What's on Your Plate and How Much Are You Moving?

Use this form to track your food and physical activity habits before you start on the DASH eating plan or to see how you're doing after a few weeks. To record more than 1 day, just copy the form. Total each day's food groups and compare what you ate with the DASH eating plan at your calorie level.

Date:			Number of Servings by DASH Food Group							
Food	Amount (serving size)	Sodium (mg)	Grains	Vegetables	Fruits	Milk products	Meats, fish, and poultry	Nuts, seeds, and legumes	Fats and oils	Sweets and added sugars
Example: whole wheat bread, with soft (tub) margarine	2 slices 2 tsp	299 52	2						2	
Breakfast										
Lunch										
Dinner										
Snacks										
Day's Totals										
2,000 calorie-level example: Compare yours with the DASH eating plan at your calorie level.		2,300 or 1,500 mg per day	6–8 per day	4–5 per day	4–5 per day	2–3 per day	6 or less per day	4–5 per week	2–3 per day	5 or less per week
Enter your calorie level and servings per day:										
Physical Activity Log										
Aim for at least 2 hours and 30 minutes of moderate-intensity physical activity per week. When your heart is beating noticeably faster, the activity is probably moderately intense.			30 min 5 min		Moderate walking Cleaning					
Record your minutes per day for each activity:			Time:		Type of activity:					

B

APPENDIX

Body Mass Index

Body mass index (BMI) is the preferred weight-for-height standard and is used as a determinant of health risk and a predictor of mortality. You can use the chart to determine health risk as well as for identifying a desirable weight for your clients. See the guidelines provided under the chart.

Table B.1 Body Mass Index (BMI) Chart*

	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
Height	Body Weight (Pounds)																							
4'10"	86	91	96	100	105	110	115	119	124	129	134	138	143	148	153	158	162	167	172	177	181	186	191	
4'11"	89	94	99	104	109	114	119	124	128	133	138	143	148	153	158	163	168	173	178	183	188	193	198	
5'0"	92	97	102	107	112	118	123	128	133	138	143	148	153	158	163	168	174	179	184	189	194	199	204	
5'1"	95	100	106	111	116	122	127	132	137	143	148	153	158	164	169	174	180	185	190	195	201	206	211	
5'2"	98	104	109	115	120	126	131	136	142	147	153	158	164	169	175	180	186	191	196	202	207	213	218	
5'3"	102	107	113	118	124	130	135	141	146	152	158	163	169	175	180	186	191	197	203	208	214	220	225	
5'4"	105	110	116	122	128	134	140	145	151	157	163	169	174	180	186	192	197	204	209	215	221	227	232	
5'5"	108	114	120	126	132	138	144	150	156	162	168	174	180	186	192	198	204	210	216	222	228	234	240	
5'6"	112	118	124	130	136	142	148	155	161	167	173	179	186	192	198	204	210	216	223	229	235	241	247	
5'7"	115	121	127	134	140	146	153	159	166	172	178	185	191	198	204	211	217	223	230	236	242	249	255	
5'8"	118	125	131	138	144	151	158	164	171	177	184	190	197	203	210	216	223	230	236	243	249	256	262	
5'9"	122	128	135	142	149	155	162	169	176	182	189	196	203	209	216	223	230	236	243	250	257	263	270	
5'10"	126	132	139	146	153	160	167	174	181	188	195	202	209	216	222	229	236	243	250	257	264	271	278	
5'11"	129	136	143	150	157	165	172	179	186	193	200	208	215	222	229	236	243	250	257	265	272	279	286	
6'0"	132	140	147	154	162	169	177	184	191	199	206	213	221	228	235	242	250	258	265	272	279	287	294	
6'1"	136	144	151	159	166	174	182	189	197	204	212	219	227	235	242	250	257	265	272	280	288	295	302	
6'2"	141	148	155	163	171	179	186	194	202	210	218	225	233	241	249	256	264	272	280	287	295	303	311	
6'3"	144	152	160	168	176	184	192	200	208	216	224	232	240	248	256	264	272	279	287	295	303	311	319	
6'4"	148	156	164	172	180	189	197	205	213	221	230	238	246	254	263	271	279	287	295	304	312	320	328	
6'5"	151	160	168	176	185	193	202	210	218	227	235	244	252	261	269	277	286	294	303	311	319	328	336	
6'6"	155	164	172	181	190	198	207	216	224	233	241	250	259	267	276	284	293	302	310	319	328	336	345	
	Under Weight (18.5)	Healthy Weight (18.5–24.9)						Overweight (25–29.9)						Obese (30)										

*Find your height along the left-hand column and look across the row until you find the number that is closest to your weight. The number at the top of that column identifies your BMI. **Find your client's height and run your finger along the corresponding horizontal line until you come to the weight that matches the desired BMI, such as 24.**



Lifestyle Management Forms

This appendix contains a variety of forms that nutrition counselors are likely to find useful during nutrition counseling interventions and evaluation of effectiveness.

- LMF 4.1 Assessment Graphic
- LMF 5.1 Client Assessment Questionnaire
- LMF 5.2 Food Record
- LMF 5.3 24-Hour Recall, Usual Diet
- LMF 5.4 Food Frequency Questionnaire
- LMF 5.5 Feedback—Anthropometric
- LMF 5.6 Client Concerns and Strengths
- LMF 5.7 Student Nutrition Interview Agreement
- LMF 6.1 Eating Behavior Journal
- LMF 6.2 Counseling Agreement
- LMF 7.1 Symptoms of Stress
- LMF 7.2 Stress Journal
- LMF 7.3 Tips to Reduce Stress
- Lifestyle Management 7.4 Healthy Sleep Practices
- LMF 7.5 Prochaska and DiClemente's Spiral of Change
- LMF 7.6 Interview Assessment Form
- LMF 7.7 Counseling Responses Competency
- LMF 7.8 The CARE Assessment
- LMF 8.1 Benefits of Regular Moderate Physical Activity
- LMF 8.2 Physical Activity Log
- LMF 8.3 Physical Activity Options
- LMF 8.4 Physical Activity Readiness-Questionnaire, PAR_Q
- LMF 8.5 Medical Release
- LMF 8.6 Physical Activity Assessment and Feedback Form
- LMF 14.1 Registration for Nutrition Clinic
- LMF 14.2 Student Nutrition Counseling Agreement

LIFESTYLE MANAGEMENT FORM 4.1

Assessment Graphic*

NOT READY				NOT SURE	NOT SURE				VERY READY
1	2	3	4	5	6	7	8	9	10

*For readiness to change: 1 = not ready; 10 = very ready

For adherence to dietary goals: 1 = never; 10 = always

For confidence in making a lifestyle change: 1 = not ready; 10 = very ready

For degree of importance for making a lifestyle change: 1 = not ready; 10 = very ready

LIFESTYLE MANAGEMENT FORM 5.1

Client Assessment Questionnaire

DEMOGRAPHIC DATA

Name _____ Date: _____
Address _____ Home telephone: _____
E-mail _____ Cell telephone: _____
Gender: M F
Age: _____ Birth date _____ Height _____ Weight _____

HEALTH HISTORY

1. What medical concerns (e.g., pregnancy), if any, do you have at the present time?

2. Indicate whether you have had blood relatives with any of the following problems:

Cancer	<input type="checkbox"/> yes	<input type="checkbox"/> no	High blood pressure	<input type="checkbox"/> yes	<input type="checkbox"/> no
Diabetes	<input type="checkbox"/> yes	<input type="checkbox"/> no	Osteoporosis	<input type="checkbox"/> yes	<input type="checkbox"/> no
Heart disease	<input type="checkbox"/> yes	<input type="checkbox"/> no	Thyroid disorder	<input type="checkbox"/> yes	<input type="checkbox"/> no
High cholesterol	<input type="checkbox"/> yes	<input type="checkbox"/> no			

3. Do you have complaints about any of the following?

____ Appetite	____ Constipation	____ Menstrual difficulties
____ Bleeding gums	____ Diarrhea	____ Seeing in dim light
____ Bruising	____ Edema	____ Sudden weight change
____ Chewing or swallowing	____ Indigestion	____ Stress

4. Do you use tobacco in any way? ☐ yes ☐ no

How much? _____

Did you recently stop smoking? ☐ yes ☐ no

5. List any food allergies or intolerances.

LIFESTYLE MANAGEMENT FORM 5.1

DRUG HISTORY

List any prescribed, over-the-counter, herbal, or vitamin/mineral supplements you take.

DIET HISTORY

1. Do you follow a special dietary plan, such as low cholesterol, kosher, or vegetarian?

2. Have you ever followed a special diet? ☐ yes ☐ no Explain: _____
3. Do you have any problems purchasing foods that you want to buy? ☐ yes ☐ no
4. Are there certain foods that you do not eat? _____
5. Do you eat at regular times each day? ☐ yes ☐ no How often? _____
6. Identify any foods you particularly like. _____
7. Do you drink alcohol? ☐ yes ☐ no How often? _____
8. What change would you like to make?

<input type="checkbox"/> Improve my eating habits	<input type="checkbox"/> Improve my activity level
<input type="checkbox"/> Learn to manage my weight	<input type="checkbox"/> Improve my cholesterol/triglyceride levels
<input type="checkbox"/> Other _____	
9. Please add any additional information you feel may be relevant to understanding your nutritional health.

10. To tailor your counseling experience to your needs, it would be useful to know your expectations. Please check one of the following to indicate the amount of structure you believe meets your needs:

<input type="checkbox"/> <i>Just tell me exactly what to eat for all my meals and snacks.</i> I want a detailed food plan. Example: $\frac{3}{4}$ cup raisin bran, 1 cup skim milk, 1 small orange, 1 slice whole wheat toast, 1 teaspoon margarine
<input type="checkbox"/> <i>I want some structure and freedom to select foods. I want to use a food group plan.</i> Example: 1 serving of dairy foods, fruits, and fat and oil group; 2 servings of grains
<input type="checkbox"/> <i>I don't want a diet. I just want to eat better. I will just set food goals each week.</i>

LIFESTYLE MANAGEMENT FORM 5.1

SOCIOECONOMIC HISTORY

1. Circle the last year of school attended:

1 2 3 4 5 6 7 8

9 10 11 12

1 2 3 4

M.A.

Ph.D.

Grade School

High School

College

Other type of school _____

2. Are you employed? _____ Occupation _____

3. How many people in your household? _____ Ages _____

4. Present marital status (circle one):

Single

Married

Divorced

Widowed

Separated

Engaged

5. Do you have a refrigerator? _____ Stove? _____

6. Who prepares most of the meals in your home? _____ Shopping? _____

7. Do you use convenience foods daily? ☐ yes ☐ no

8. How often do you eat out? _____ Where? _____

9. Have you made any food changes in your life you feel good about? ☐ yes ☐ no

10. Who could support and encourage you to make these changes? _____

LIFESTYLE MANAGEMENT FORM 5.1

PHYSICAL ACTIVITY HISTORY

1. Do you currently participate in regular physical activity? ☐ yes ☐ no
(If no, go to question #3)
2. Describe your current physical activity habits by completing the table below.
 - a) List all of the physical activities you do in a typical week in the top row.
 - b) For each activity, list how many days each week you engage in the activity.
 - c) On the days you do the activity, what are the total minutes in the day that you are involved in the activity?
 - d) How hard do you perform the activity:
 - Light – equal to a strolling walk; easy to talk
 - Moderate – equal to a brisk walk; heart rate and breathing increases slightly; you can talk but could not sing
 - Vigorous – equal to a slow jog or more; heart rate and breathing increases significantly

Type of Physical Activity	Sample: Walking					
Number of days/week	3					
Minutes per day	15					
Total minutes per week	45					
Intensity	moderate					

3. How much time each day do you spend sitting, reclining, or napping? Include time sitting at a desk and in meetings, working on a computer, watching TV and movies, playing video games, and commuting. Do not count the time you spend sleeping during your usual sleep hours.
hours per day _____

EDUCATION INTERESTS

What information would you like from your counselor?

- | | | |
|--|--|---|
| <input type="checkbox"/> Supermarket shopping tour | <input type="checkbox"/> Eating out | <input type="checkbox"/> Exercise |
| <input type="checkbox"/> Weight management | <input type="checkbox"/> Portion size | <input type="checkbox"/> Alcohol calories |
| <input type="checkbox"/> Healthy food preparation | <input type="checkbox"/> Eating less fat | <input type="checkbox"/> Meal planning |
| <input type="checkbox"/> Fiber | <input type="checkbox"/> Walking program | <input type="checkbox"/> Snack foods |
| <input type="checkbox"/> Food labels | <input type="checkbox"/> Other _____ | |

Thank you for your willingness to share this information and to take part in the Nutrition Clinic. We look forward to working with you to make lifestyle changes to meet your food and fitness objectives.

Food Record



- Complete this form as accurately as possible, using the examples as a guide.
- Use only one form per day. Do not put anything on this form that pertains to another day.
- Record all foods and beverages, including water, you consumed from the time you woke up to the time you went to bed.

[illegible]

24-Hour Recall/Usual Diet Form

Copyright 2021 Cengage Learning. All Rights Reserved. May not be copied, scanned, or duplicated, in whole or in part. Due to electronic rights, some third party content may be suppressed from the eBook and/or eChapter(s). Editorial review has deemed that any suppressed content does not materially affect the overall learning experience. Cengage Learning reserves the right to remove additional content at any time if subsequent rights restrictions require it.

LIFESTYLE MANAGEMENT FORM 5.3

Food Group Serving Sizes

Serving Sizes and MyPlate Recommendations

BREADS, CEREALS, AND OTHER GRAIN PRODUCTS	
What counts as 1 ounce of grains?	
1 slice bread	1 tortilla (6 inch diameter)
½ c cooked cereal, rice, or pasta	1 pancake (5 inch diameter)
1 c ready-to-eat cereal	3 cups popcorn
½ English muffin	4 to 5 small or 2 large crackers
1 small roll, biscuit, or muffin	
VEGETABLES	
What counts as 1 cup of vegetables?	
1 cup of raw or cooked vegetables or vegetable juice	1 cup whole or mashed cooked dried beans and peas (such as black, garbanzo, kidney, pinto, or soy beans, or black-eyed peas or split peas)
2 cups of raw leafy greens	1 medium baked potato, 20 French fries
FRUITS	
What counts as 1 cup of fruit?	
1 cup of fruit or 100% fruit juice	1 small apple
½ cup of dried fruit	1 medium pear, grapefruit
1 large banana, orange, peach	32 seedless grapes
PROTEIN FOODS	
What counts as 1 ounce of meat or meat equivalent?	
1 ounce of meat, poultry or seafood	1 tablespoon of peanut butter
¼ cup cooked dry beans,	½ ounce of nuts or seeds (12 almonds, 24 pistachios, 7 walnut halves)
1 falafel patty (2 ¼", 4 ounces)	¼ cup (about 2 ounces) of tofu,
1 egg	1 ounce tempeh, cooked
2 tablespoons hummus	
MILK, YOGURT, AND CHEESE	
What counts as 1 cup of milk?	
1 cup milk or yogurt	⅓ cup shredded cheese
2 ounce processed cheese food	2 slices Swiss cheese
1½ ounce natural cheese	1 cup calcium-fortified soymilk
OILS	
What counts as 1 teaspoon of oil?	
1 teaspoon vegetable oil (soy, corn, peanut, and sesame)	1 tablespoon mayonnaise type dressing, or Italian dressing
1½ teaspoon mayonnaise	8 large canned olives
2 teaspoon tub margarine	2 teaspoon French dressing
FATS, SWEETS, AND ALCOHOLIC BEVERAGES	
<ul style="list-style-type: none"> Foods high in fat include margarine, salad dressing, oils, mayonnaise, sour cream, cream cheese, butter, gravy, sauces, potato chips, and chocolate bars. Foods high in sugar include cakes, pies, cookies, doughnuts, sweet rolls, candy, soft drinks, fruit drinks, jelly, syrup, gelatin, desserts, sugar, and honey. Alcoholic beverages include wine, beer, and liquor. 	

LIFESTYLE MANAGEMENT FORM 5.4

Food Frequency Questionnaire

SERVING SIZES	FOOD GROUP	SERVINGS PER DAY	SERVINGS PER WEEK	NEVER OR RARELY
1 slice bread 1 cup dry cereal ½ cup cooked rice, pasta, or cereal	Refined Grains —white bread, pasta, cereals			<input type="checkbox"/>
½ bun, bagel, or English muffin 1 small roll, biscuit, or muffin	Whole Grains —whole wheat bread, brown rice, oatmeal, bran cereal			<input type="checkbox"/>
1 cup raw leafy vegetable ½ cup cooked or raw vegetables 6 oz vegetable juice	Vegetables			<input type="checkbox"/>
6 oz fruit juice 1 medium fruit ¼ cup dried fruit ½ cup fresh, frozen, or canned fruit	Fruits			<input type="checkbox"/>
8 oz milk 1 cup yogurt 1½ oz cheese	Dairy —low-fat or fat-free ice cream, milk, cheese, yogurt; frozen yogurt			<input type="checkbox"/>
2 oz process cheese	Dairy —whole milk, regular cheese, regular ice cream			<input type="checkbox"/>
3 oz cooked meats, poultry, or fish	Meats, Poultry, Fish —lean			<input type="checkbox"/>
	Meats, Poultry, Fish —high-fat: sausage, cold cuts, spareribs, hot dogs, eggs, bacon			<input type="checkbox"/>
1/3 cup or 1½ oz nuts 2 Tbsp or ½ oz seeds ½ cup cooked dry beans 4 oz tofu, 1 cup soy milk 2 Tbsp peanut butter	Nuts, Seeds, and Dry Beans			<input type="checkbox"/>
1 Tbsp regular dressing 2 Tbsp light salad dressing 1 tsp oil 1 Tbsp low-fat mayonnaise 1 tsp margarine, butter	Fats and Oils			<input type="checkbox"/>
8 oz lemonade 1½ oz candy 8 oz soda	Sweets			<input type="checkbox"/>
12 oz beer, 4 oz wine 1 shot hard liquor	Alcohol			<input type="checkbox"/>

LIFESTYLE MANAGEMENT FORM 5.5

Anthropometric Feedback Form

Volunteer's Measurements	Standard
Actual weight =	
Body Mass Index =	Desirable = 19–25
Waist circumference =	High risk = men > 35", women > 40"

LIFESTYLE MANAGEMENT FORM 5.6

Client Concerns and Strengths Log

1. List all concerns expressed by your client or identified by you.

2. Write NC (no control) next to all concerns in which you or your client has no control.

3. Categorize in the following chart the remaining concerns in which there is some degree of control and as a result could be addressed by a goal:

Nutritional	Behavioral	Exercise

LIFESTYLE MANAGEMENT FORM 5.6

4. List strengths and skills.

5. Categorize the strengths and skills in the following chart:

Nutritional	Behavioral	Exercise

6. What strengths and skills can be used to address the concerns? List them in the following chart:

Strengths and Skills	Concerns	Possible Intervention Strategies

LIFESTYLE MANAGEMENT FORM 5.7

Student Nutrition Interview Agreement

Thank you for your willingness to participate in the nutrition counseling clinic offered by _____. The student in training must give the client written information that explains the student's training, information about the counseling program, and details on confidentiality.

Student Training

Students in this program have completed core courses in nutrition prior to beginning their clinical experience in the current NUFD 482 Nutrition Counseling course. A few examples of courses taken by student counselors include Nutrition or Nutrition With Lab, Food Composition and Scientific Preparation, Applied Nutrition in the Life Cycle, and Nutrition Education Techniques.

Interview Objective

This interview is designed to provide interviewing experience for nutrition counseling students. The objective is for the student to work on counseling skills, gather information about a health problem, and learn something about your health issues. While discussing your situation, you may receive some benefit by clarifying your health concerns and possibly formulating a decision to make a behavior change. However, this experience is not designed to be an intervention.

Confidentiality and Limits of Confidentiality

Clients have the right to receive counseling services that are confidential. Since this is a training program there are limits to the confidentiality that you should be made aware of. The student will write a report about the interview experience. This report is only shared with the course instructor. Information in the report may be shared with other students during classroom discussions. However, at no time will your name be used in those discussions. In all other respects, the information you give will be held in absolute and strictest confidence.

We sincerely thank you for your willingness to participate and for your help in the education of future nutrition counselors. If you have any questions or problems during this project, please contact the course instructor, _____, phone number _____, e-mail _____.

I, _____, have read and understood the above statement.

Print your name here

Your signature here

Today's date

Counselor signature here

Today's date

(A copy of this signed form will be provided for me to take home.)

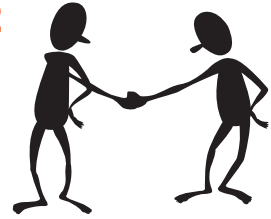
A stylized illustration of a hand holding a quill pen. The hand is rendered in a light skin tone with simple black outlines for the fingers and thumb. The thumb is positioned at the base of the quill, while the other fingers are curled around it. The quill itself is a long, brown, feather-like structure with a textured, slightly frayed appearance. The hand is holding the quill in a way that suggests it is about to write or has just finished writing. The background is plain white.

Eating Behavior Journal

[illegible]

LIFESTYLE MANAGEMENT FORM 6.2

Counseling Agreement



Name _____ Date: _____

My plan is to do the following:

This activity will be accomplished on _____

My reward will be (specify when, where and what) _____

Client signature

Date

Counselor signature

Date

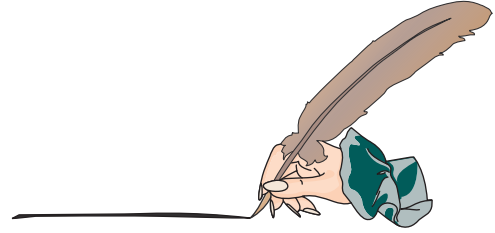
LIFESTYLE MANAGEMENT FORM 7.1

Symptoms of Stress



Physical Symptoms	Emotional Symptoms
<ul style="list-style-type: none"> • Muscular tension • Headaches • Insomnia • Twitching eyelid • Fatigue • Backaches • Neck/shoulder pain • Digestive disorders • Teeth grinding • Changes in eating/sleep patterns • Sweaty palms 	<ul style="list-style-type: none"> • Anxiety • Frequent crying • Irritability • Frustration • Depression • Worrying • Nervousness • Moodiness • Anger • Self-doubt • Resentment
Mental Symptoms	Social Symptoms
<ul style="list-style-type: none"> • Short concentration • Forgetfulness • Lethargy • Pessimism • Low productivity • Confusion 	<ul style="list-style-type: none"> • Loneliness • Nagging • Withdrawal from social contact • Isolation • Yelling at others • Reduced sex drive
<p>Source: Adapted from Goliszek, A. <i>60 Second Stress Management</i>, 2nd ed. Far Hills, NJ: New Horizon Press, 2004.</p>	

Stress Awareness Journal

376

LIFESTYLE MANAGEMENT FORM 7.3

Tips for Reducing Stress



- Learn to say “no.” Don’t overcommit. Delegate work at home and work.
- Organize your time. Use a daily planner. Prioritize your tasks. Make a list and a realistic timetable. Check off tasks as they are completed. This gives you a sense of control over overwhelming demands and reduces anxiety.
- Be physically active. Big muscle activities, such as walking, are the best for relieving tension.
- Develop a positive attitude. Surround yourself with positive quotes, soothing music, and affirming people.
- Relax or meditate. Schedule regular massages, use guided imagery tapes, or just take ten minutes for quiet reflection time in a park.
- Get enough sleep. Small problems can seem overwhelming when you are tired.
- Eat properly. Be sure to eat at least five servings of fruits and vegetables and three servings of whole grains every day. Limit intake of alcohol and caffeine.
- To err is human. Don’t treat a mistake as a catastrophe. Ask yourself what will be the worst thing that will happen.
- Work at making friends and being a friend. Close relationships don’t just happen. Compliment three people today. Send notes to those who did a good job.
- Accept yourself. Appreciate your talents and your limitations. Everyone has them.
- Laugh. Look at the irony of a difficult situation. Watch movies and plays and read stories that are humorous.
- Take three deep breaths.
- Forgive. Holding onto grudges only causes you more stress and pain.

LIFESTYLE MANAGEMENT 7.4

Healthy Sleep Practices

- Prepare bedroom for comfort. Remove clutter. Make the room attractive and inviting for sleep but also free of allergens. Bedroom should be cool, around 68 degrees. Eliminate light and noise. Consider using blackout curtains, eye shades, ear plugs, or “white noise.”
- Use light to manage your circadian rhythms. Avoid bright light in the evening and expose yourself to sunlight in the morning. Consider using dim or lamps or light bulbs at night that do not emit blue light.
- Avoid alcohol, cigarettes, and heavy meals in the evening. Eat your last meal 2 to 3 hours before bed. Eat a small snack if hungry.
- Get up and go to bed at the same time every day. Set a bedtime that is early enough for you to get at least 7 hours of sleep.
- Maintain an exercise routine. Vigorous exercise is best, but even light exercise is better than no activity. Do not reduce sleep to exercise.
- Use a bedtime routine to help your body to shift into sleep mode. See tips below.

Bedtime Routine Tips

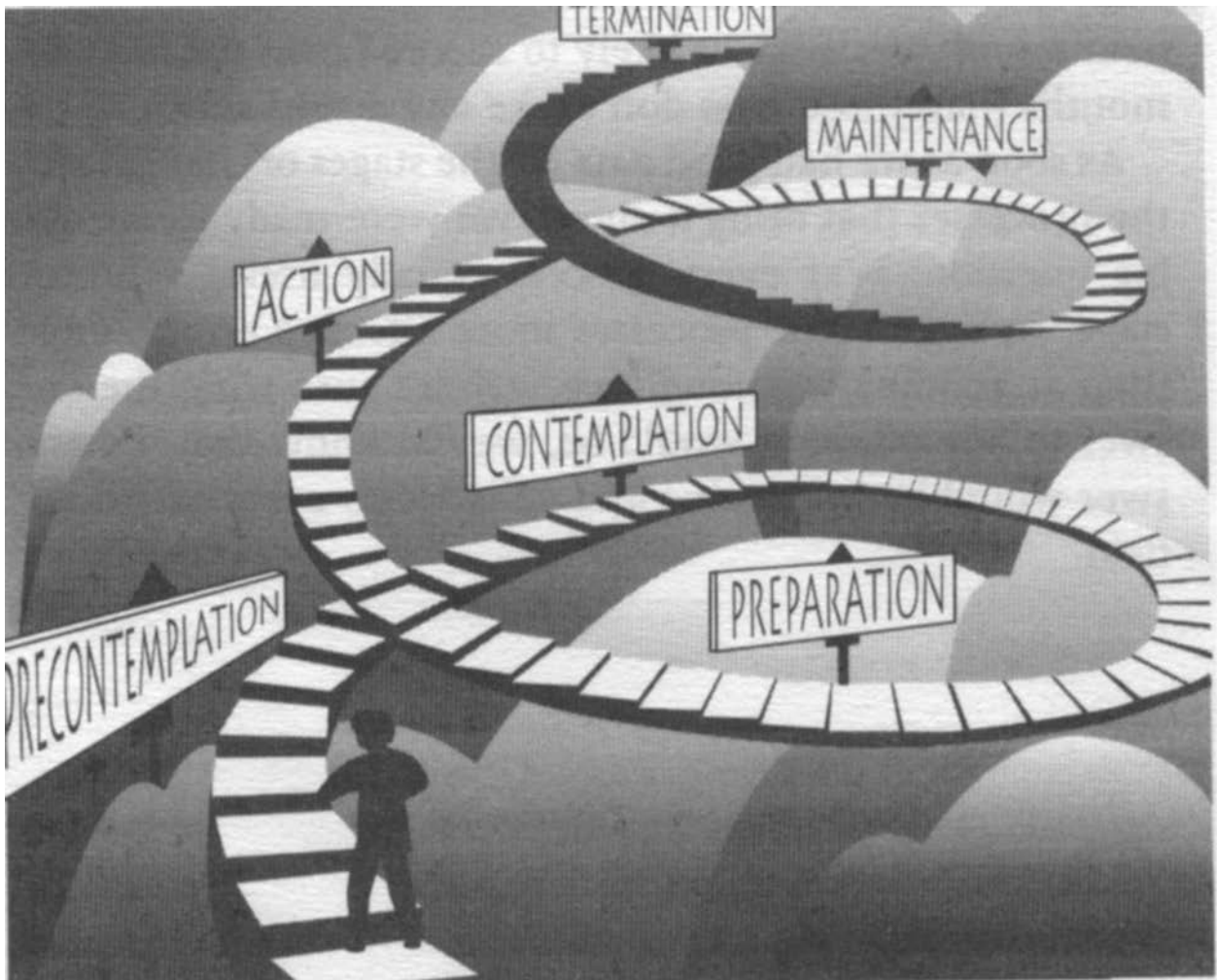
- Remove stressful items or activities from your bedtime routine.
- Start your routine about one hour before bed. Write down your plan for guidance and evaluation.
- Engage in relaxing activities: Tai Chi or yoga sleep routines, massage, foot soak or warm bath, lavender scented creams or oils, deep breathing, reading.
- Consider consuming foods found to help sleep: chamomile tea, tart cherry juice, kiwi, and almond butter.
- If not asleep within 25 minutes, get up and go to chair and do a relaxing activity, such as reading, meditation, or listening to soothing music.

An Example of a Bedtime Routine

9:30 p.m.	Wear blue light blocking glasses Drink a cup of chamomile tea and eat one kiwi
10:00 p.m.	No visual electronics Soak feet in warm water Play relaxing music while soaking feet Rub feet with lavender oil
10:25 p.m.	Follow a 10-minute Tai Chi routine for sleep, blue light block on screen Use blue light blocking blubs in exercise room
10:40 p.m.	Read a book in a comfortable chair Use a lamp with a blue light blocking blub for light
11:00 p.m.	Bed If not asleep by 11:25 p.m., get up and go to chair and read.

LIFESTYLE MANAGEMENT FORM 7.5

Prochaska's and DiClemente's Spiral of Change



Source: Prochaska, J. O., Norcross, J. C., and DiClemente, C. C., *Changing for Good*. New York: Avon, © 1994, p. 49. Used with permission.

LIFESTYLE MANAGEMENT FORM 7.6

Interview Assessment Form¹

Interviewer _____ Observer _____ Date _____

Goal of the Interview: _____

I. FLOW OF THE INITIAL INTERVIEW

A. Involving Phase

- | | | |
|--|------------------------------|-----------------------------|
| 1. Greeting | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| a) Verbal greeting | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b) Shakes hands | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 2. Introduction of self | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 3. Attention to self-comfort—Other obligations finished or planned for a later time; attention focused. (Self-evaluation only) | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4. Attention to client's comfort—Physical comfort, noise and visual distractions minimized | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 5. Small talk, if appropriate | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6. Establishes counseling objectives | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| a) Opening question— <i>What brings you here today?</i> | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b) Establishes client's long-term objectives | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c) Explains counseling process | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d) Discusses weight monitoring, if appropriate | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7. Establishes agenda | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 8. Transition Statement— <i>Now that we have gone over the basics of the program, we can explore your needs in greater detail.</i> | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

B. Exploration-Education Phase

- | | | |
|--|------------------------------|-----------------------------|
| 1. Reviews completed assessment forms | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 2. Compares assessment to a standard, point-by-point, nonjudgmental | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 3. Asks client thoughts about comparison | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4. Segment summary—identifies problems, reiterates self-motivational statements, checks accuracy | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 5. Asks client if he or she would like to make changes | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6. Assesses motivation—use a ruler to determine readiness to change | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7. Tailors educational experiences to client needs | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

C. Resolving Phase

Level 1 (numbers 1 to 3 on assessment graphic)

- | | | |
|---|------------------------------|-----------------------------|
| 1. Raises awareness—Discusses benefits of change | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 2. Raises awareness—Personalizes benefits | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 3. Asks open-ended questions regarding importance of change | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4. Provides summary | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 5. Offers advice, if appropriate | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6. Expresses support | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

¹This evaluation form is based on the Brown Interview Checklist, Brown University School of Medicine, Novack, D. H., Goldstein, M. G., and Dubé, C. E., 1986.

LIFESTYLE MANAGEMENT FORM 7.6

Level 2 (numbers 4 to 7 on assessment graphic)

- | | | |
|--|------------------------------|-----------------------------|
| 1. Raises awareness—Discusses benefits of change and diet options | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 2. Asks open-ended questions regarding confidence in ability to change | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 3. Asks open-ended questions to identify barriers | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4. Examines pros and cons | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 5. Imagines the future | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6. Explores past successes | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7. Explores support networks | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 8. Summarizes ambivalence | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

Level 3 (numbers 8 to 10 on assessment graphic)

- | | | |
|--|------------------------------|-----------------------------|
| 1. Praises positive behaviors | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 2. Explores change options | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| a) Asks client's ideas for change | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b) Uses an options tool, if appropriate | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c) Explores concerns regarding selected option | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 3. Explains goal setting process | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4. Identifies a specific goal from a broad goal—uses small talk, explores past experiences, builds on past | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 5. Goal is SMART: specific, measurable, attainable (client has control), rewarding (stated positively), time-bound | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6. Designs a plan of action | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| a) Investigates physical environment | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b) Examines social support | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c) Examines cognitive environment, explains coping talk, if needed | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d) Defines a tracking technique | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| e) Client verbalizes goal | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7. Writes down goal | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

D. Closing Phase

- | | | |
|---|------------------------------|-----------------------------|
| 1. Supports self-efficacy | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 2. Reviews issues and strengths | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 3. Uses "respect" relationship building response | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4. Restates goal or goals | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 5. Reviews next meeting time | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6. Shakes hands | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7. Expresses appreciation for participation | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 8. Uses "support and partnership" relationship building responses | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

II. INTERPERSONAL SKILLS

A. Facilitation (Attending) Skills

- | | | |
|---|--|-----------------------------|
| 1. Eye contact—Appropriate length to enhance client comfort | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 2. Uses silences to facilitate client's expression of thoughts and feelings | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 3. Open posture—Arms uncrossed, facing client | F* <input type="checkbox"/> P <input type="checkbox"/> No <input type="checkbox"/> | |
| 4. Head nod, <i>mm-hm</i> , repeats client's last statement | F* <input type="checkbox"/> P <input type="checkbox"/> No <input type="checkbox"/> | |

*F = Frequently, P = Partially

LIFESTYLE MANAGEMENT FORM 7.6

B. Relationship Skills (Conveying Empathy)

- | | |
|---|--|
| 1. Reflection—Restates the client's expressed emotion or inquires about emotions | F* <input type="checkbox"/> P <input type="checkbox"/> No <input type="checkbox"/> |
| 2. Legitimation—Expresses understandability of client's emotions | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 3. Respect—Expresses respect for the client's coping efforts or makes a statement of praise | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 4. Support—Expresses willingness to be helpful to client addressing his or her concerns | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 5. Partnership—Expresses willingness to work with client | Yes <input type="checkbox"/> No <input type="checkbox"/> |

*F = Frequently, P = Partially

III. CLIENT RESPONSES

Often Sometimes Seldom

- | | |
|--|---------------|
| A. Client freely discusses his or her concerns. | _____ _____ |
| B. Client appears comforted and relaxed. | _____ _____ |
| C. Client appears engaged in the counseling session. | _____ _____ |
| D. Client freely offers information about his or her condition and life context. | _____ _____ |

IV. GENERAL COMMENTS

LIFESTYLE MANAGEMENT FORM 7.7

Counseling Responses Competency Assessment

Audio- or video-tape a counseling session and listen to the tape several times to complete the following assessment:

- Track the number of times you made each response by placing slash marks next to the name of the response. Note that this is an evaluation of your responses, not your client responses.
- For each category of responses, give an example from the recording. In cases where the particular response category was not demonstrated on the recording, write an example that may have been effective with your client and then complete the category evaluation.
- Select an intent and focus of the response. You may wish to review a discussion of these topics in Chapter 3.
- Indicate the effectiveness of your particular response, and explain why it was or was not effective. For responses that do not receive the most effective rating, write alternative responses that you believe would have worked better.
- Some of your responses may not fit any of the categories. This assessment covers many basic counseling responses but it is possible that some of your statements do not appear to fit into any of the categories. If that is the case, such material would not be evaluated. The following is an example of a competency evaluation for one response:

Example

Questions ///

Example What brings you here? Are you looking to lower your blood pressure?

Intent (circle one): *To acknowledge* *To explore* *To challenge*

Focus (circle one): *information* *experience* *feelings* *thoughts* *behaviors*

☐ Effective ☒ Somewhat Effective ☐ Not Effective Explain I asked two

questions at the same time. I made an assumption that the main issue was blood pressure.

Alternative Response What brings you here today?

1. **Attending** _____

Example _____

Intent (circle one): *To acknowledge* *To explore* *To challenge*

Focus (circle one): *information* *experience* *feelings* *thoughts* *behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective ☐ Explain _____

Alternative Response _____

2. **Empathizing (Reflecting)** _____

Example _____

Intent (circle one): *To acknowledge* *To explore* *To challenge*

Focus (circle one): *information* *experience* *feelings* *thoughts* *behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

LIFESTYLE MANAGEMENT FORM 7.7

3. **Legitimation** _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

4. **Respect** _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

5. **Personal Support** _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

6. **Partnership** _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

7. **Mirroring (Parroting)** _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

8. **Paraphrasing** _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

LIFESTYLE MANAGEMENT FORM 7.7

9. Giving Feedback (Immediacy) _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

10. Questioning _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

11. Clarifying (Probing, Prompting) _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

12. Noting a Discrepancy (Confrontation, Challenging) _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

13. Directing (Instructions) _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

14. Advice _____

Example _____

Intent (circle one): *To acknowledge To explore To challenge*

Focus (circle one): *information experience feelings thoughts behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

LIFESTYLE MANAGEMENT FORM 7.7

15. **Allowing Silence** _____

Example _____

Intent (circle one): *To acknowledge* *To explore* *To challenge*

Focus (circle one): *information* *experience* *feelings* *thoughts* *behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

16. **Self-Referent** _____

Example _____

Intent (circle one): *To acknowledge* *To explore* *To challenge*

Focus (circle one): *information* *experience* *feelings* *thoughts* *behaviors*

☐ Effective ☐ Somewhat Effective ☐ Not Effective Explain _____

Alternative Response _____

LIFESTYLE MANAGEMENT FORM 7.8

The CARE Assessment

© Stewart W. Mercer 2004

Please rate the following statements about today's consultation. Please tick one box for each statement and answer every statement.						
How was the counselor at ...	Poor	Fair	Good	Very Good	Excellent	Does Not Apply
1. Making you feel at ease... (being friendly and warm toward you, treating you with respect; not cold or abrupt)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Letting you tell your "story" ... (giving you time to fully describe your illness in your own words; not interrupting or diverting you)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Really listening... (paying close attention to what you were saying; not looking at the notes or computer as you were talking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Being interested in you as a whole person ... (asking/knowing relevant details about your life, your situation; not treating you as "just a number")	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Fully understanding your concerns... (communicating that he/she had accurately understood your concerns; not overlooking or dismissing anything)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Showing care and compassion... (seeming genuinely concerned, connecting with you on a human level; not being indifferent or detached)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Being positive... (having a positive approach and a positive attitude; being honest but not negative about your problems)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Explaining things clearly... (fully answering your questions, explaining clearly, giving you adequate information; not being vague)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Helping you to take control... (exploring with you what you can do to improve your health yourself; encouraging rather than "lecturing" you)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Making a plan of action with you ... (discussing the options; involving you in decisions as much as you want to be involved; not ignoring your views)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

LIFESTYLE MANAGEMENT FORM 8.1

Potential Benefits of Regular Moderate Physical Activity



There are many potential benefits to being physically active. Review this list and put a checkmark in the boxes that are the most important to you.

- ☐ Lowers risk of early death
- ☐ Improves fitness
- ☐ Lower risk of stroke
- ☐ Improves immune function
- ☐ Lowers risk of falls
- ☐ Improves productivity
- ☐ Increases stamina and energy
- ☐ Slows the effects of aging
- ☐ Lowers triglycerides
- ☐ Strengthens heart and lungs
- ☐ Supports strong bones
- ☐ Decreases stress
- ☐ Improves sleep
- ☐ Maintains weight or aids loss of weight
- ☐ Improves mood, self-esteem, and self-image
- ☐ Reduces feelings of depression and anxiety
- ☐ Helps keep your mind sharp as you get older and lowers your risk of dementia and Alzheimer's
- ☐ Maintains ability to function and preserves independence in older adults

Reduces risk or aids in the management of:

- ☐ heart disease
- ☐ diabetes
- ☐ high blood pressure
- ☐ cancer

LIFESTYLE MANAGEMENT FORM 8.2

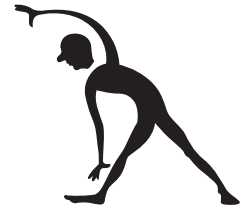
Physical Activity Log



- Record all physical activities for a week. Remember to include regular daily activities such as climbing stairs, gardening, and walking to the office from a parking lot.
- Include all forms of physical fitness activities including stretching, weight lifting, balancing, and aerobic movement.

Day of the Week	Type of Activity	Amount of Time
Sunday		
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		

Physical Activity Options



Experts now say that all physical activity supports better health—even just a few minutes! Fit in 2, 5, 10, or 50 minutes throughout your day.

➤ Look for Everyday Opportunities

- Use steps instead of elevators or escalators.
- Park your car in a distant section of the parking lot.
- Leave work five minutes later. Take a walk around the building.
- Get off the train or bus one stop early and walk the rest of the way.
- Take a walk during lunch.
- March, stretch, or do squats while brushing your teeth.
- Pace around the house or do arm curls with a can of food while talking on the phone.
- Jump rope, stretch, jog in place, or lift weights while watching TV.
- Be prepared. Keep walking shoes in your car or in your desk.
- Take your bike with you to a conference and explore the local scenery before driving home.

➤ Plan a Daily Routine

Think about cost, convenience, and bad weather options when planning a program. Look for creative ways to keep the activities enjoyable.

- Schedule time for physical activity. Write it in your calendar.
- Vary the physical activities. Plan to bike one day a week, jog two days a week, and go to the gym three days a week.
- Try a smartphone walking app or count your steps with an activity tracker. Gradually build up to 10,000 steps per day.
- Join a walking club, a biking club, etc.
- Add variety to the activity. Have several walking trails; ask a friend to join you in your walks; or listen to music or recorded books during your walks.

➤ Plan Physically Active Leisure Time Events

Look for activities the whole family can enjoy.

- Have a family baseball or soccer game.
- Plan a bike tour, mountain hike, or canoe trip.
- Explore a cave.

LIFESTYLE MANAGEMENT FORM 8.4

Physical Activity Readiness Questionnaire, PAR-Q*



(A Questionnaire for People Aged 15 to 69)

Regular physical activity is fun and healthy and being more active is very safe for most people. Checking with your doctor is always a good idea before becoming much more physically active. The questions below can help guide you on the necessity of getting a physician's opinion. Your best guide when answering the questions is to use common sense. Please read the questions carefully and check YES or NO.

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Has your health care provider ever said that you have a heart condition and that you should only do physical activity recommended by a health care provider? |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Do you feel pain in your chest when you do physical activity? |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. In the past month, have you had chest pain when you were not doing physical activity? |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Do you lose your balance because of dizziness or do you ever lose consciousness? |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Do you feel extremely breathless after mild exertion? |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Is your health care provider currently prescribing drugs (for example, water pills) for your blood pressure or heart condition? |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Do you have a bone or joint problem (for example, back, knee, or hip) that could be made worse by a change in your physical activity? |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. You have a medical condition or other physical reason not mentioned here that might need special attention in an exercise program (such as insulin-dependent diabetes). |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Are more than 25 to 30 pounds overweight? |
| <input type="checkbox"/> | <input type="checkbox"/> | Do you know of any other reason why you should not do physical activity? |

Source: Physical Activity Readiness Questionnaire, A Physical Activity Toolkit for RDs, available at www.exerciseismedicine.org/assets/page_documents/WM%20EIM%20Toolkit%202013%20FINAL.pdf; American Heart Association. *Fitting in Fitness*. New York: Times Books, 1997, p. 33. Reprinted with permission. The American Heart Association checklist was developed from several sources, particularly the Physical Activity Readiness Questionnaire, British Columbia Ministry of Health, Department of National Health and Welfare, Canada (revised 1992).

LIFESTYLE MANAGEMENT FORM 8.4

If you answered YES to one or more questions:

Talk with your doctor BEFORE you start becoming much more physically active or BEFORE you have a fitness appraisal. Tell your doctor about the PAR-Q and which questions you answered YES.

- You may be able to do any activity you want—as long as you start slowly and build up gradually. Or, you may need to restrict your activities to those that are safe for you. Talk with your doctor about the kinds of activities you wish to participate in and follow your doctor's advice.
- Find out which community programs are safe and helpful for you.
- Develop an exercise plan with the aid of an exercise specialist.

If you answered NO honestly to *all* PAR-Q questions, you can be reasonably sure that you can:

- Start becoming much more physically active—begin slowly and build up gradually. This is the safest and easiest way to go.
- Take part in a fitness appraisal—this is an excellent way to determine your basic fitness so that you can plan the best way for you to live actively.

DELAY BECOMING MUCH MORE ACTIVE:

- If you are not feeling well because of a temporary illness such as a cold or a fever—wait until you feel better; or
- If you are or may be pregnant—talk to your doctor before you start becoming more active.

Please note: If your health changes so that you then answer YES to any of the above questions, tell your fitness or health professional. Ask whether you should change your physical activity plan.

Informed Use of the PAR-Q: The Canadian Society for Exercise Physiology, Health Canada, and their agents assume no liability for persons who undertake physical activity, and if in doubt after completing this questionnaire, consult your doctor prior to physical activity.

I have read, understood and completed this questionnaire. Any questions I had were answered to my full satisfaction.

Name _____

Signature _____ Date _____

Signature of parent or guardian _____

Witness _____

© Canadian Society for Exercise Physiology Supported by Health Canada

LIFESTYLE MANAGEMENT FORM 8.5

Medical Release

Your patient has enrolled in our nutrition counseling lifestyle management program. We have asked this person to seek medical consultation to evaluate if there should be any limitations to his or her involvement in our clinic. If a client wishes to lose weight, a program is designed allowing for a modest weight loss of 1 to 2 pounds per week. Clients are encouraged to engage in physical activity according to their ability and readiness. They are given a Physical Activity Readiness Questionnaire, PAR-Q to complete to be given to their health care provider. Students counsel clients under the supervision of food and nutrition faculty. Please completely read the following statements and sign the form if you believe your client can safely participate in a lifestyle management program to alter eating and exercise behaviors.

Date: _____

This is to certify that I have examined the person named below:

NAME: _____

ADDRESS: _____

CITY, STATE, ZIP _____

- ☐ This person was found to be in satisfactory health. There are no reasons to prohibit this person from participating in a lifestyle management program that advocates changes in eating behaviors and modest exercise goals tailored to the client's level of readiness.
- ☐ This person should be referred to a certified exercise professional for evaluation and physical activity guidance.

Health Practitioner _____

Address _____

For further information, please contact _____ at _____

LIFESTYLE MANAGEMENT FORM 8.6

Physical Activity Readiness, Assessment and Feedback Form

The following contains your evaluation of the physical activity assessment. Do not be surprised if you do not meet all the standards set by national organizations, most North Americans do not. One consequence of recent technological advances has been to decrease the need to move. This is a serious concern for our health. As evidence has been accumulating about the benefits of regular physical activity, several governmental and health agencies have issued official statements and/or instituted national programs to combat this problem. These include:

- American Medical Association
- American Heart Association
- Centers for Disease Control
- American College of Sports Medicine
- National Institutes of Health
- Office of the Surgeon General and Health Canada.

Many Americans may be surprised at the extent and strength of the evidence linking physical activity to numerous health improvements.

– David Satcher, Former Director of the Centers for Disease Control and Prevention

Benefits of regular physical activity:

- Reduces your risk or aids in the management of
 - heart disease
 - diabetes
 - high blood pressure
 - stroke
 - several types of cancer
- Aids in the support of strong bones
- Improves your mood, self-esteem, self-image, and sleep
- Increases energy
- Maintains or aids in loss of weight
- Maintains function and preserves independence in older adults
- Helps keep your mind sharp as you get older and lowers your risk of dementia and Alzheimer's

Source: American College of Sports Medicine. Exercise Is Medicine, 2019.

LIFESTYLE MANAGEMENT FORM 8.6

Physical Activity Standard ¹	Standard Met	Standard Not Met
Muscular Strengthening: Engage in muscle strengthening activities that are moderate or high intensity and involve all muscle groups on 2 or more days a week.	<input type="checkbox"/>	<input type="checkbox"/>
Flexibility: Engage in activities that stretch major muscle groups at least 2 times per week.	<input type="checkbox"/>	<input type="checkbox"/>
Endurance (Minimum): Engage in at least 150 minutes of moderate or 75 minutes of vigorous aerobic activity a week.	<input type="checkbox"/>	<input type="checkbox"/>
Endurance (Additional Benefits): Engage in at least 300 minutes of moderate or 150 minutes of vigorous aerobic activity a week.	<input type="checkbox"/>	<input type="checkbox"/>

Motivation Level	Implication
Level 1, Not ready <input type="checkbox"/>	Would you consider learning more about how moderate physical activity could help your health?
Level 2, Unsure <input type="checkbox"/>	For some reason you are not sure that you are ready to begin a physical activity program. Your counselor will explore your ambivalence with you to see if you are ready to make plans to increase your physical activity level.
Level 3, Ready <input type="checkbox"/>	Great, you are ready to begin or increase your activity level. Your counselor can provide you with resources to aid in developing a plan.
Level 4, Action <input type="checkbox"/>	Congratulations, you are already actively involved in a physical activity program. Your counselor will review with you the standards set by authorities. If you do not meet all of them, you may wish to make some alterations.

Physical Activity Readiness:

☐ Talk to your doctor before becoming much more physically active or having a fitness appraisal as indicated by the following:

- PAR-Q Readiness Questions (LMF 8.4) ● Woman over age 50 ● Man over age 40

☐ Delay an increase in physical activity due to pregnancy or illness.

¹Standards are based on the 2018 Physical Activity Guidelines for Americans and the American College of Sports Medicine Guidelines for Exercise Testing and Prescription, 10th edition, 2018.

Note: Reevaluate readiness if you experience dizziness, chest pain, undue shortness of breath, difficulty breathing, or unusual discomfort after beginning an exercise program.

LIFESTYLE MANAGEMENT FORM 14.1

Registration for Nutrition Clinic

Counselor	Participant
<hr/> <i>Name</i> <hr/>	<hr/> <i>Name</i> <hr/>
Cell Telephone: _____ Best times to call: _____	Cell Telephone: _____ Best times to call: _____
Home Telephone: _____ Best times to call: _____	Home Telephone: _____ Best times to call: _____
E-mail: _____	E-mail: _____
Your meeting day is: _____	Location of meetings: _____
Your meeting time is: _____	Room number: _____
<p>Length of meetings is approximately one hour. If welcome packet forms have not been completed previous to the first session, the first counseling session may take an extra 20 minutes.</p> <p>The dates of your 4 meetings are as follows: _____</p> <p>_____</p>	
<ul style="list-style-type: none">• Please complete 2 copies of this agreement form. The client copy should be given to the participant and the clinic copy should be given to the counselor.• Thank you for your interest in our program. Please note that any cancellations of meetings should be made directly between each participant and counselor.• If you have any questions, please contact the instructor, _____ Phone number _____ E-mail _____	

Student Nutrition Counseling Agreement

Thank you for your interest in the nutrition counseling clinic offered by the Department of Nutrition and Food Studies at _____. The student in training must give the client written information that explains the student's training, information about the counseling program, and details on confidentiality.

Student Training

Students in this program have completed core courses in nutrition prior to beginning their clinical experience in the current NUFD 482 Nutrition Counseling course. A few examples of courses taken by student counselors include Nutrition or Nutrition With Lab, Food Composition and Scientific Preparation, Applied Nutrition in the Life Cycle, and Nutrition Education Techniques.

This experience is designed to provide a mutually beneficial experience for both students and volunteer adult clients.

Counseling Relationships and Client Rights and Responsibility

You will work one on one with an advanced nutrition counseling student for four sessions, each one lasting approximately one hour. During the registration process clients are assigned a student counselor, a counseling room, and meeting times. The counseling sessions provide clients an opportunity to explore and find solutions for nutrition and weight issues. At the same time students will be working on their nutrition counseling skills. Although students will be following a well-defined counseling guideline, each session will be tailored to their client's needs.

Eligibility for Program

Students can only assist clients in achieving weight loss if the client is overweight by National Institutes of Health Standards. Normal and underweight clients can still take part in the program with the goal of improving the quality of their diet.

Program Details

Your student counselor will use a client-centered, motivational approach during his or her sessions with you. This means:

1. Your student counselor will work collaboratively with you to explore your nutrition and weight issues, brainstorm resources and solutions, and help you to set achievable behavioral goals each week.
2. Your student counselor will ask you questions about your health and family history as well as present-day food habits. Two of the nutrition assessment forms will be given to you at registration. You can look at them before signing this form.
3. Your student counselor will have a variety of tools at their disposal including videos, food models, and educational handouts.
4. Your student counselor may choose to engage clients in hands-on experiences. Therefore, at times your counseling session may take place in a grocery store, the student cafeteria, or the gym. Possibly you and your student counselor will follow the walk-about map of our campus.

5. Your student counselor may work with you to explore goals in physical fitness.

Physical activity is an important part of fitness and weight management. Experience has shown that our clients have a variety of orientations to this topic. If you are already very active in this area, you will be encouraged to continue your program. However if exercise has not been a joyful experience, you will be invited to explore this issue. As long as there is no medical problem and you are ready to take action, weekly activity goals will be developed with you. For appropriate clients we have a structured walking protocol that can be followed.

Confidentiality and Limits of Confidentiality

Clients have the right to receive counseling services that are confidential. Since this is a training program there are limits to the confidentiality that you should be made aware of. The student may speak occasionally with his or her graduate mentor or instructor about you. The student will write a report about the counseling experience. This report is only shared with the course instructor. Your student counselor may give a case study presentation about you to the nutrition counseling class, but at no time in these presentations will your name be used. In all other respects, information you give the student will be held in absolute and strictest confidence.

We sincerely thank you for your willingness to participate and for your help in the education of future nutrition counselors. If you have any questions or problems during this project, please call the course instructor,....., at.....

I, _____, have read and understand the above statements and agree to

Print your name here

meet with _____ at agreed times and places on the registration form.

(A copy of this signed form will be provided for me to take home.)

If I cannot attend at the agreed upon time and place I will contact the student counselor as soon as possible via:

_____ **Text at this number or;**

Student counselor cell phone

_____ **E-mail notification**

Student e-mail

Your signature here

Today's date

Student Counselor signature here

Today's date



Dietary Reference Intakes (DRI)

The Dietary Reference Intakes (DRI) include two sets of values that serve as goals for nutrient intake—Recommended Dietary Allowances (RDA) and Adequate Intakes (AI). The RDA reflect the average daily amount of a nutrient considered adequate to meet the needs of most healthy people. If there is insufficient evidence to determine an RDA, an AI is set. AI are more tentative than RDA, but both may be used as goals for nutrient intakes. (Chapter 1 provides more details.)

In addition to the values that serve as goals for nutrient intakes (presented in the tables on these two pages), the DRI include a set of values called Tolerable Upper Intake Levels (UL). The UL represent the maximum amount of a nutrient that appears safe for most healthy people to consume on a regular basis. Turn the page for a listing of the UL for selected vitamins and minerals.

Estimated Energy Requirements (EER), Recommended Dietary Allowances (RDA), and Adequate Intakes (AI) for Water, Energy, and the Energy Nutrients

Age (yr)	Reference BMI (kg/m ²)	Reference Height cm (in)	Reference Weight kg (lb)	Water ^a AI (L/day)	Energy EER ^b (kcal/day)	Carbohydrate RDA (g/day)	Total Fiber AI (g/day)	Total Fat AI (g/day)	Linoleic Acid AI (g/day)	Linolenic Acid ^c AI (g/day)	Protein RDA (g/day) ^d	Protein RDA (g/kg/day)
Males												
0–0.5	—	62 (24)	6 (13)	0.7 ^e	570	60	—	31	4.4	0.5	9.1	1.52
0.5–1	—	71 (28)	9 (20)	0.8 ^f	743	95	—	30	4.6	0.5	11	1.20
1–3 ^g	—	86 (34)	12 (27)	1.3	1046	130	19	—	7	0.7	13	1.05
4–8 ^g	15.3	115 (45)	20 (44)	1.7	1742	130	25	—	10	0.9	19	0.95
9–13	17.2	144 (57)	36 (79)	2.4	2279	130	31	—	12	1.2	34	0.95
14–18	20.5	174 (68)	61 (134)	3.3	3152	130	38	—	16	1.6	52	0.85
19–30	22.5	177 (70)	70 (154)	3.7	3067 ^h	130	38	—	17	1.6	56	0.80
31–50	22.5 ⁱ	177 (70) ⁱ	70 (154) ⁱ	3.7	3067 ^h	130	38	—	17	1.6	56	0.80
>50	22.5 ⁱ	177 (70) ⁱ	70 (154) ⁱ	3.7	3067 ^h	130	30	—	14	1.6	56	0.80
Females												
0–0.5	—	62 (24)	6 (13)	0.7 ^e	520	60	—	31	4.4	0.5	9.1	1.52
0.5–1	—	71 (28)	9 (20)	0.8 ^f	676	95	—	30	4.6	0.5	11	1.20
1–3 ^g	—	86 (34)	12 (27)	1.3	992	130	19	—	7	0.7	13	1.05
4–8 ^g	15.3	115 (45)	20 (44)	1.7	1642	130	25	—	10	0.9	19	0.95
9–13	17.4	144 (57)	37 (81)	2.1	2071	130	26	—	10	1.0	34	0.95
14–18	20.4	163 (64)	54 (119)	2.3	2368	130	26	—	11	1.1	46	0.85
19–30	21.5	163 (64)	57 (126)	2.7	2403 ^j	130	25	—	12	1.1	46	0.80
31–50	21.5 ⁱ	163 (64) ⁱ	57 (126) ⁱ	2.7	2403 ^j	130	25	—	12	1.1	46	0.80
>50	21.5 ⁱ	163 (64) ⁱ	57 (126) ⁱ	2.7	2403 ^j	130	21	—	11	1.1	46	0.80
Pregnancy												
1st trimester				3.0	+0	175	28	—	13	1.4	46	0.80
2nd trimester				3.0	+340	175	28	—	13	1.4	71	1.10
3rd trimester				3.0	+452	175	28	—	13	1.4	71	1.10
Lactation												
1st 6 months				3.8	+330	210	29	—	13	1.3	71	1.30
2nd 6 months				3.8	+400	210	29	—	13	1.3	71	1.30

NOTE: For all nutrients, values for infants are AI. Dashes indicate that values have not been determined.

^aThe water AI includes drinking water, water in beverages, and water in foods; in general, drinking water and other beverages contribute about 70 to 80 percent, and foods, the remainder. Conversion factors: 1 L = 33.8 fluid oz; 1 L = 1.06 qt; 1 cup = 8 fluid oz.

^bThe Estimated Energy Requirement (EER) represents the average dietary energy intake that will maintain energy balance in a healthy person of a given gender, age, weight, height, and physical activity level. The values listed are based on an “active” person at the reference height and weight and at the midpoint ages

for each group until age 19. Chapter 8 and Appendix F provide equations and tables to determine estimated energy requirements.

^cThe linolenic acid referred to in this table and text is the omega-3 fatty acid known as alpha-linolenic acid.

^dThe values listed are based on reference body weights.

^eAssumed to be from human milk.

^fAssumed to be from human milk and complementary foods and beverages. This includes approximately 0.6 L (~2½ cups) as total fluid including formula, juices, and drinking water.

^gFor energy, the age groups for young children are 1–2 years and 3–8 years.

^hFor males, subtract 10 kcalories per day for each year of age above 19.

ⁱBecause weight need not change as adults age if activity is maintained, reference weights for adults 19 through 30 years are applied to all adult age groups.

^jFor females, subtract 7 kcalories per day for each year of age above 19.

SOURCE: Adapted from the *Dietary Reference Intakes* series, National Academies Press. Copyright 1997, 1998, 2000, 2001, 2002, 2004, 2005, 2011 by the National Academies of Sciences.

Recommended Dietary Allowances (RDA) and Adequate Intakes (AI) for Vitamins

Age (yr)	Thiamin RDA (mg/day)	Riboflavin RDA (mg/day)	Niacin RDA (mg/day) ^a	Biotin AI (µg/day)	Pantothenic acid AI (mg/day)	Vitamin B ₆ RDA (mg/day)	Folate RDA (µg/day) ^b	Vitamin B ₁₂ RDA (µg/day)	Choline AI (mg/day)	Vitamin C RDA (mg/day)	Vitamin A RDA (µg/day) ^c	Vitamin D RDA (IU/day) ^d	Vitamin E RDA (mg/day) ^e	Vitamin K AI (µg/day)
Infants														
0–0.5	0.2	0.3	2	5	1.7	0.1	65	0.4	125	40	400	400 (10 µg)	4	2.0
0.5–1	0.3	0.4	4	6	1.8	0.3	80	0.5	150	50	500	400 (10 µg)	5	2.5
Children														
1–3	0.5	0.5	6	8	2	0.5	150	0.9	200	15	300	600 (15 µg)	6	30
4–8	0.6	0.6	8	12	3	0.6	200	1.2	250	25	400	600 (15 µg)	7	55
Males														
9–13	0.9	0.9	12	20	4	1.0	300	1.8	375	45	600	600 (15 µg)	11	60
14–18	1.2	1.3	16	25	5	1.3	400	2.4	550	75	900	600 (15 µg)	15	75
19–30	1.2	1.3	16	30	5	1.3	400	2.4	550	90	900	600 (15 µg)	15	120
31–50	1.2	1.3	16	30	5	1.3	400	2.4	550	90	900	600 (15 µg)	15	120
51–70	1.2	1.3	16	30	5	1.7	400	2.4	550	90	900	600 (15 µg)	15	120
>70	1.2	1.3	16	30	5	1.7	400	2.4	550	90	900	800 (20 µg)	15	120
Females														
9–13	0.9	0.9	12	20	4	1.0	300	1.8	375	45	600	600 (15 µg)	11	60
14–18	1.0	1.0	14	25	5	1.2	400	2.4	400	65	700	600 (15 µg)	15	75
19–30	1.1	1.1	14	30	5	1.3	400	2.4	425	75	700	600 (15 µg)	15	90
31–50	1.1	1.1	14	30	5	1.3	400	2.4	425	75	700	600 (15 µg)	15	90
51–70	1.1	1.1	14	30	5	1.5	400	2.4	425	75	700	600 (15 µg)	15	90
>70	1.1	1.1	14	30	5	1.5	400	2.4	425	75	700	800 (20 µg)	15	90
Pregnancy														
≤18	1.4	1.4	18	30	6	1.9	600	2.6	450	80	750	600 (15 µg)	15	75
19–30	1.4	1.4	18	30	6	1.9	600	2.6	450	85	770	600 (15 µg)	15	90
31–50	1.4	1.4	18	30	6	1.9	600	2.6	450	85	770	600 (15 µg)	15	90
Lactation														
≤18	1.4	1.6	17	35	7	2.0	500	2.8	550	115	1200	600 (15 µg)	19	75
19–30	1.4	1.6	17	35	7	2.0	500	2.8	550	120	1300	600 (15 µg)	19	90
31–50	1.4	1.6	17	35	7	2.0	500	2.8	550	120	1300	600 (15 µg)	19	90

NOTE: For all nutrients, values for infants are AI. The glossary on the inside back cover defines units of nutrient measure.

^aNiacin recommendations are expressed as niacin equivalents (NE), except for recommendations for infants younger than 6 months, which are expressed as preformed niacin.

^bFolate recommendations are expressed as dietary folate equivalents (DFE).

^cVitamin A recommendations are expressed as retinol activity equivalents (RAE).

^dVitamin D recommendations are expressed as cholecalciferol and assume an absence of adequate exposure to sunlight.

^eVitamin E recommendations are expressed as α-tocopherol.

Recommended Dietary Allowances (RDA) and Adequate Intakes (AI) for Minerals

Age (yr)	Sodium AI (mg/day)	Chloride AI (mg/day)	Potassium AI (mg/day)	Calcium RDA (mg/day)	Phosphorus RDA (mg/day)	Magnesium RDA (mg/day)	Iron RDA (mg/day)	Zinc RDA (mg/day)	Iodine RDA (µg/day)	Selenium RDA (µg/day)	Copper RDA (µg/day)	Manganese AI (mg/day)	Fluoride AI (mg/day)	Chromium AI (µg/day)	Molybdenum RDA (µg/day)
Infants															
0–0.5	120	180	400	200	100	30	0.27	2	110	15	200	0.003	0.01	0.2	2
0.5–1	370	570	700	260	275	75	11	3	130	20	220	0.6	0.5	5.5	3
Children															
1–3	1000	1500	3000	700	460	80	7	3	90	20	340	1.2	0.7	11	17
4–8	1200	1900	3800	1000	500	130	10	5	90	30	440	1.5	1.0	15	22
Males															
9–13	1500	2300	4500	1300	1250	240	8	8	120	40	700	1.9	2	25	34
14–18	1500	2300	4700	1300	1250	410	11	11	150	55	890	2.2	3	35	43
19–30	1500	2300	4700	1000	700	400	8	11	150	55	900	2.3	4	35	45
31–50	1500	2300	4700	1000	700	420	8	11	150	55	900	2.3	4	35	45
51–70	1300	2000	4700	1000	700	420	8	11	150	55	900	2.3	4	30	45
>70	1200	1800	4700	1200	700	420	8	11	150	55	900	2.3	4	30	45
Females															
9–13	1500	2300	4500	1300	1250	240	8	8	120	40	700	1.6	2	21	34
14–18	1500	2300	4700	1300	1250	360	15	9	150	55	890	1.6	3	24	43
19–30	1500	2300	4700	1000	700	310	18	8	150	55	900	1.8	3	25	45
31–50	1500	2300	4700	1000	700	320	18	8	150	55	900	1.8	3	25	45
51–70	1300	2000	4700	1200	700	320	8	8	150	55	900	1.8	3	20	45
>70	1200	1800	4700	1200	700	320	8	8	150	55	900	1.8	3	20	45
Pregnancy															
≤18	1500	2300	4700	1300	1250	400	27	12	220	60	1000	2.0	3	29	50
19–30	1500	2300	4700	1000	700	350	27	11	220	60	1000	2.0	3	30	50
31–50	1500	2300	4700	1000	700	360	27	11	220	60	1000	2.0	3	30	50
Lactation															
≤18	1500	2300	5100	1300	1250	360	10	13	290	70	1300	2.6	3	44	50
19–30	1500	2300	5100	1000	700	310	9	12	290	70	1300	2.6	3	45	50
31–50	1500	2300	5100	1000	700	320	9	12	290	70	1300	2.6	3	45	50

NOTE: For all nutrients, values for infants are AI. The glossary on the inside back cover defines units of nutrient measure.

Tolerable Upper Intake Levels (UL) for Vitamins

Age (yr)	Niacin (mg/day) ^a	Vitamin B ₆ (mg/day) ^a	Folate (μg/day) ^a	Choline (mg/day)	Vitamin C (mg/day)	Vitamin A (μg/day) ^b	Vitamin D (IU/day)	Vitamin E (mg/day) ^c
Infants								
0–0.5	—	—	—	—	—	600	1000 (25 μg)	—
0.5–1	—	—	—	—	—	600	1500 (38 μg)	—
Children								
1–3	10	30	300	1000	400	600	2500 (63 μg)	200
4–8	15	40	400	1000	650	900	3000 (75 μg)	300
9–13	20	60	600	2000	1200	1700	4000 (100 μg)	600
Adolescents								
14–18	30	80	800	3000	1800	2800	4000 (100 μg)	800
Adults								
19–70	35	100	1000	3500	2000	3000	4000 (100 μg)	1000
>70	35	100	1000	3500	2000	3000	4000 (100 μg)	1000
Pregnancy								
≤18	30	80	800	3000	1800	2800	4000 (100 μg)	800
19–50	35	100	1000	3500	2000	3000	4000 (100 μg)	1000
Lactation								
≤18	30	80	800	3000	1800	2800	4000 (100 μg)	800
19–50	35	100	1000	3500	2000	3000	4000 (100 μg)	1000

^aThe UL for niacin and folate apply to synthetic forms obtained from supplements, fortified foods, or a combination of the two.

^bThe UL for vitamin A applies to the preformed vitamin only.

^cThe UL for vitamin E applies to any form of supplemental α-tocopherol, fortified foods, or a combination of the two.

Tolerable Upper Intake Levels (UL) for Minerals

Age (yr)	Sodium (mg/day)	Chloride (mg/day)	Calcium (mg/day)	Phosphorus (mg/day)	Magnesium (mg/day) ^d	Iron (mg/day)	Zinc (mg/day)	Iodine (μg/day)	Selenium (μg/day)	Copper (μg/day)	Manganese (mg/day)	Fluoride (mg/day)	Molybdenum (μg/day)	Boron (mg/day)	Nickel (mg/day)	Vanadium (mg/day)
Infants																
0–0.5	—	—	1000	—	—	40	4	—	45	—	—	0.7	—	—	—	—
0.5–1	—	—	1500	—	—	40	5	—	60	—	—	0.9	—	—	—	—
Children																
1–3	1500	2300	2500	3000	65	40	7	200	90	1000	2	1.3	300	3	0.2	—
4–8	1900	2900	2500	3000	110	40	12	300	150	3000	3	2.2	600	6	0.3	—
9–13	2200	3400	3000	4000	350	40	23	600	280	5000	6	10	1100	11	0.6	—
Adolescents																
14–18	2300	3600	3000	4000	350	45	34	900	400	8000	9	10	1700	17	1.0	—
Adults																
19–50	2300	3600	2500	4000	350	45	40	1100	400	10,000	11	10	2000	20	1.0	1.8
51–70	2300	3600	2000	4000	350	45	40	1100	400	10,000	11	10	2000	20	1.0	1.8
>70	2300	3600	2000	3000	350	45	40	1100	400	10,000	11	10	2000	20	1.0	1.8
Pregnancy																
≤18	2300	3600	3000	3500	350	45	34	900	400	8000	9	10	1700	17	1.0	—
19–50	2300	3600	2500	3500	350	45	40	1100	400	10,000	11	10	2000	20	1.0	—
Lactation																
≤18	2300	3600	3000	4000	350	45	34	900	400	8000	9	10	1700	17	1.0	—
19–50	2300	3600	2500	4000	350	45	40	1100	400	10,000	11	10	2000	20	1.0	—

^dThe UL for magnesium applies to synthetic forms obtained from supplements or drugs only.
NOTE: An Upper Limit was not established for vitamins and minerals not listed and for those age groups listed with a dash (—) because of a lack of data, not because these nutrients are safe to consume at any level of intake. All nutrients can have adverse effects when intakes are excessive.

SOURCE: Adapted with permission from the *Dietary Reference Intakes* series, National Academies Press. Copyright 1997, 1998, 2000, 2001, 2002, 2005, 2011 by the National Academies of Sciences.

Index

A

AAP. *See* American Academy of Pediatrics (AAP)

ABCs of behavior, 135

ABCs of objectives, 277

Academy for Eating Disorders, 239

Academy of Nutrition and Dietetics (AND), 2, 81, 125, 132, 141, 204, 208, 219, 222, 227, 229, 314, 316, 324, 327

Academy of Nutrition and Dietetics' Code of Ethics, 5, 12

Acceptance, motivational interviewing, 30

Accreditation Council for Education in Nutrition and Dietetics (ACEND), 208, 315

Accreditation requirements, 208

Accuracy, 306

ACE. *See* American Council on Exercise (ACE)

ACEND. *See* Accreditation Council for Education in Nutrition and Dietetics (ACEND)

Achievable goals, 97, 98, 99, 134, 170

Acknowledge (counseling response), 51

ACSM. *See* American College of Sports Medicine (ACSM)

ACSM walking program, 197

ACSM's Complete Guide to Fitness and Health, 200

Action for Healthy Kids, 239

Action planning, 100

Action stage (TTM), 20, 22

Action-oriented learning activities, 297

Active diversions, 136

Active individuals, 112, 184

Active learning, 290

Active listening, 57–58

Active People, Healthy Nation, 200

Acute care settings, 91–92

ADA. *See* American Dietetic Association (ADA)

Adequate intake (AI), 109

Adherence, 149

ADIME, 117, 118

 assessment (A), 120–121

 diagnosis (D), 121–122

 intervention (I), 123–124

 monitoring and evaluation (M&E), 124–126

Adobe Premiere Rush CC, 311

Adolescents

 life span communication, 220–221

 physical activity guidelines, 183

 resources, 239

Adult learner needs, 268

Adult Learning Methods: A Guide for Effective Instruction, 311

Adults, physical activity guidelines, 183

Advertising, 4

 web-based, 326

Advice, 52, 56, 66, 69, 70, 88

Aerobic activity, 179, 184–186

Affective domain, 279–280

Affirmations, 31, 32, 61

Affordability, physical activity planning and, 197

African Americans

 communication style, 49–50

 health disparities, 206

Age-appropriate communication models. *See* Life span communication

Agenda

 first session, 82

 subsequent sessions, 82

Agender, 225

Aggressive communication style, 245

Agreeing, 56

Agreeing response, 52, 55

AI. *See* Adequate intake (AI)

AIDs. *See* Apparently irrelevant decisions (AIDs)

Alcohol, sleep habits and, 165

Algorithm

 cross-cultural nutrition counseling, 215, 216

 motivational nutrition counseling, 75–77

 physical activity assessments, 187

 physical activity motivational counseling, 188

 readiness-to-change assessments, 78

All About Your Own Website.Com, 330

Alternative meanings, 49

Alternative question, 246

Altman, Donald, 166

Alvord, Lori, 56

Alzheimer's Disease Education and Referral Center, 239

AMA. *See* American Medical Association (AMA)

American Academy of Family Physicians, 222

American Academy of Pediatrics (AAP), 218

American Academy of Sleep Medicine, 165, 175

American Art Therapy Association, Inc., 175

American College of Sports Medicine (ACSM), 179, 187, 189, 197, 200

American Council on Exercise (ACE), 179–180

American Dance Therapy Association, 175

American Diabetes Association, 95, 109, 132, 145

American Dietetic Association (ADA), 179

American Indian, health disparities, 206

American Medical Association (AMA), 108, 179

American Music Therapy Association, 175

American Sign Language (ASL), 231

AN. *See* Anorexia nervosa (AN)

Anaerobic activity, 181

Analogies, 305

Analyzing response, 52, 55

AND. *See* Academy of Nutrition and Dietetics (AND)

Andragogy, 268

Android fat distribution, 113, 126

Angela's Ashes (McCourt), 56

Anger (word choice), 60

Animation, 303

Anorexia nervosa (AN), 227

Antecedents,

135

Anthropometric feedback form, 369

Anthropometric measurements, 103. *See also*

 Physical assessments and healthy weight standards

Aphasia, 233

Apparently irrelevant decisions (AIDs), 169

Appearance/attire, 320, 322

Appropriate action, 47

Approving response, 52, 55

Arguing response, 52

Art, journaling and, 134

Arthritis, 183

Artificial limbs, 229

Asexual, 226

Asian Americans, health disparities, 206

Asians

 communication style, 49–50

 overweight/obese, 113

 waist circumference, 113

ASL. *See* American Sign Language (ASL)

ASOAP analysis, 301, 303–304

Assertive behavior, 159

Assertive communication style, 245

Assertive questioning, 50

Assessing readiness-to-change, 77–79

Assessment

 counseling models, 75

 first session, 83

 group, 261

 physical activity, 187–190

 subsequent sessions, 83

Assessment graphic, 360

Assignment, 286

Assumptions, 58

Athletes Plate, 194, 195

Attending behavior, 57–58, 68, 70

Attention-grabbing introduction, 291

Attentive body language, 57

Attire, 293, 320, 322

Attitude goals, 334

Attitudes, 24

Attitudinal changes, 300

Audio and audiovisual messages, 301, 303

Authority figure, 12

Automatic response, 47

Avoidance messages, 148

Awareness, 87, 88, 210

Awkwardness, 47

B

Baby boomers, 208

Balancing, 250

Bandura, Albert, 16, 28

Barna, 297

Barriers to change, 141

Be More Creative, 175

Beck, Aaron T., 27

- Bedroom environment**, 165
Bedtime routine, 164, 165, 166. *See also* Sleep habits
Behavior chain, 135–136
Behavior change. *See* Making behavior change last; Promoting change
Behavior change models, 15–45
 benefits, 16
 client-centered counseling, 29, 39
 cognitive-behavioral therapy, 27–28, 39
 health belief model, 17–19
 Internet websites/readings, 43–45
 motivational interviewing, 29–36, 39
 overview (table), 38–39
 self-efficacy, 16–17
 social cognitive theory, 26–27, 39
 solution-focused therapy, 28–29, 39
 theory of planned behavior, 24–25, 39
 transtheoretical model, 19–23, 39
Behavior change strategies, 135–141
 ABCs of behavior, 135
 antecedents, 135
 barriers to change, 141
 behavior chain, 135–136
 cognitive restructuring, 141–145
 consequences, 135
 countering, 136, 138
 cue management, 136, 137–138
 encouragement, 140
 goal setting, 140
 modeling, 140
 problem solving, 140–141
 reinforcement (rewards), 138
Behavioral capacity, 26
Behavioral contract, 139
Behavioral determinants of health, 207
Behavioral therapy, 28
Beliefs and assumptions, 142
Benson, Herbert, 161
Berg, Insoo Kim, 28
Berlin, Elois Ann, 214
Binge eating disorder, 227
Biochemical tests, 268, 269
Biological determinants of health, 207
Biological taste preferences, 2–3
Biomedical ethics, 316
Bisexual, 226
Blackboard, 295, 299
Blaming response, 52
Blending, 160
Blind persons, 229, 230
Blogger, 330
Blogs, Wikis, Podcasts, and Other Powerful Web Tools for Classrooms, 311
BMI. *See* Body mass index (BMI)
BN. *See* Bulimia nervosa (BN)
Body language. *See* Nonverbal behavior
Body mass index (BMI), 112–113, 114, 358
Body of presentation, 291–292
Body weight, 82
Bone health, physical activity and, 182
Brain health, 182
Brainstorm solutions, 256
Brief encounters/interventions
 counseling interview, 91
 motivational interviewing, 37–38
Broad goal, 99
Bulimia nervosa (BN), 227
Burnout, occupational, 327–328
Bush, George H. W., 229
Business knowledge, 324
Business plan, 324
Busy overweight college student and mother (case study), 151
Busy sales representative (case study), 174
By His Side: Life and Love after Stroke (Quann), 229
C
Caffeine, sleep habits and, 164, 165
Campinha-Bacote model of cultural competence, 208, 209–210
Cancer, physical activity and, 182
Canvas, 299, 310
Cardiorespiratory fitness, 181–182
Cardiorespiratory health, physical activity and, 181–182
Cardiovascular advantages, 184
CARE assessment, 387
CARE measure, 173
Care plan. *See* Nutrition care plan
Case study
 ADIME (assessment), 121
 ADIME (diagnosis), 124
 ADIME (intervention), 125
 ADIME (monitoring and evaluation), 126
 busy overweight college student and mother, 151
 busy sales representative, 174
 communication analysis of John's interactions, 68
 counseling interview, 92–94
 educational approach, 270, 272
 goals and objectives, 282
 group facilitation, 261
 helping relationships, 41, 68–69
 interactive personal case study, 328
 know your audience, 270
 physical activity, 197–198
 presentation, 309
 SOAP notes, 117–118
 theory-based interventions, 270, 274
 WIC program, 234
CATS, 33
CB. *See* Cognitive-behavior (CB)
CBT. *See* Cognitive Behavioral Therapy (CBT)
CD recordings, 297
Center for Contemplative Mind in Society, 330
Center for Mindful Eating, 166, 175
Center for Mindfulness, University of Massachusetts Medical School, 175
Centers for Disease Control and Prevention, 204, 311
Centers for Disease Control and Prevention site on Healthy Aging, 271
Chadwick, Florence, 97
Challenge (counseling response), 51
Chang, Jung, 8
Change talk, 33–34
 categories of, 34
 evoking, 35–36
 open-ended questions, 87, 88–89
 practice identifying, 35
Changing lifestyle behaviors. *See* Making behavior change last; Promoting change
Changing the subject (communication roadblock), 55
Charting. *See* Documentation and charting
Checking, 63, 173
Child and Adult Care Food Program, 222
Children and adolescent resources, 239
Choose MyPlate, 109, 110, 152
Choose Your Foods: Food Lists for Diabetes, 132
Choose Your Foods: Food Lists for Weight Management, 132, 153
Churchill, Winston, 308
Cicero, 1
Cigarette smoking, sleep habits and, 165
Cisgender, 225
Civil Rights Act of 1964, Title VI, 208
Clarifying response, 64–65, 69, 70
Classical conditioning, 28
Client, nutrition counseling session. *See* Counseling interview
Client assessment questionnaire, 103–104, 361–364
Client concerns and strengths log, 116, 370–371
Client history domain, 103
Client rights, 319
Client-centered counseling, 29, 39, 40
Clinical records, 268
Clinical settings, 266–267
Closed group, 253–258
Closed-ended question, 64, 70
Closing phase
 counseling interview, 79, 90–91
 cross-cultural nutrition counseling algorithm, 216
 sample one-hour sessions, 341, 346, 349, 352
Clubs and organizations, 158
Cochrane Database of Systematic Reviews, 129
Code of ethics, 316, 319
Cognitions, 142
Cognitive-behavior (CB), 28
Cognitive Behavioral Therapy (CBT), 227
Cognitive distortions, 142, 144, 145
Cognitive domain, 278–279
Cognitive environment, 100, 256
Cognitive restructuring, 141–145
 constructive thoughts to substitute for negative thinking, 144–145
 education, 143
 identify dysfunctional thinking, 143–144
 relapse prevention, 170
 stop destructive thoughts, 144
 validity of self-destructive statements, 144
Cognitive therapy (CT), 27
Cognitive-behavior modification, 27–28
Cognitive-behavioral therapy (CBT), 27–28, 39, 40
Collaborative counseling style, 170
Comfort, counseling interview and, 80
Commanding response, 55
Commercials, 4
Commission on Dietetic Registration, 180
Communication, 46–73
 African Americans, 49–50
 Anglo Americans, 49–50
 Asians, 49–50
 basic counseling responses (*See* Counseling responses)
 body language (*See* Nonverbal behavior)
 cross-cultural, 212
 cultural differences, 48, 49–50
 empathy, 55–56
 feeling words, 60
 focus, 47, 51–52
 guidelines, 48, 51
 intents, 48, 51–52
 Latinos, 49–50
 Middle Easterners, 49–50
 model of, 48

- native Americans, 49–50
 - roadblocks, 54–55
 - student exercise, 49
 - styles of, 245
 - Communications: Principles for a Lifetime**, 311
 - Community settings**, 266
 - Comparisons**, 147
 - Compassion, motivational interviewing**, 30
 - Compliance**, 149
 - Concentration**, 58
 - Conclusion, counseling models**, 75
 - Confidentiality**, 81, 319
 - Conflict (word choice)**, 60
 - Confucius**, 145
 - Conscious and unconscious prejudices**, 9
 - Conscious awareness**, 47
 - Consciousness raising**, 21
 - Consensus**, 248–249
 - Consequences, behavior change**, 135
 - Consoling response**, 55
 - Constructive thoughts**, 144–145
 - Consumer food choice model**, 3
 - Consumer Labs**, 200
 - Consumer marketplace**, 266
 - Contemplation stage (TTM)**, 19, 22
 - Content issues**, 306
 - Continuing education**, 314
 - Contract**, 139–140
 - “Control Your Diabetes. For Life,”** 276
 - Convenient, physical activity planning and**, 196
 - Coordination of nutrition care domain**, 124
 - Core beliefs**, 142, 146
 - Core of experience (from passive to active learning)**, 290
 - Corners**, 248
 - Cornucopia of Disability**, 239
 - Cortisol**, 161
 - Counseling agreement**, 139, 374
 - Counseling agreement form**, 81
 - Counseling checklist**, 173–174
 - Counseling communication. See Communication**
 - Counseling effectiveness**, 173–174
 - Counseling evaluation**, 172–173
 - Counseling focus**, 51
 - Counseling intent**, 51–52
 - Counseling interview**
 - acute care settings, 91–92
 - approaches, 81
 - assessment, 83–84
 - assessment form, 380–382
 - brief interventions, 91
 - case study, 92–94
 - closing phase, 79, 90–91
 - confidentiality, 81
 - cross cultural, 214–215
 - dieting, 82
 - educational activities, 83
 - establishing comfort, 80
 - explain program and counseling process, 81–82
 - exploration-education phase, 79, 82–85
 - feedback, 84
 - greeting the client, 80
 - identifying long-term behavioral objectives, 81
 - Internet websites/readings, 95
 - interview vs. counseling, 79–80
 - involving phase, 79, 80–82
 - with key informants, 269
 - motivated, confident clients, 90–91
 - opening the session, 80–81
 - overview of process, 79
 - precontemplative clients, 86–88
 - readiness-to-change assessment, 85
 - reflective listening, 81
 - relationship-building responses, 81
 - resolving phase, 79, 85–91
 - setting the agenda, 82
 - small talk, 80
 - summarize, 85, 87–88
 - topics to explore, 83
 - “typical day strategy,” 83
 - unsure, low confidence clients, 88–90
 - weight monitoring discussion, 82
 - Counseling observation checklist**, 42
 - Counseling responses**, 56–67
 - advice, 66
 - attending, 57–58
 - clarifying, 64–65
 - directing, 65–66
 - empathizing, 58–61
 - giving feedback, 63
 - legitimation, 61
 - listening, 57–58
 - mirroring, 62
 - noting discrepancy, 65
 - overview, 56–57
 - paraphrasing, 62–63
 - partnership, 62
 - personal support, 61–62
 - questioning, 63–64
 - respect, 61
 - self-disclosing, 67
 - silence, 66–67
 - Counseling responses competency assessment**, 174, 383–386
 - Counseling session. See Nutrition counseling**
 - Counseling skills, motivational interviewing**, 32–33
 - Counseling strategies**, 28
 - Counseling style**, 333
 - Counselor. See Nutrition counselor**
 - Counter conditioning**, 23
 - Countering**, 136, 138
 - Covert antecedents**, 169
 - Cravings**, 169
 - Create Your Plate (American Diabetes Association)**, 109, 222
 - Credentials**, 315, 323
 - Criticizing response**, 55
 - Cross-cultural communication**, 212. *See also* Cultural competence; Cultural differences
 - Cross-cultural nutrition counseling algorithm**, 215, 216
 - Cue management (stimulus control)**, 136, 137–138
 - Cues to action**, 18, 19
 - Cultural blindness**, 209
 - Cultural competence**, 209
 - Campinha-Bacote model (*See* Campinha-Bacote model of cultural competence)
 - communicating information, 212
 - cultural differences (*See* Cultural differences)
 - defined, 204
 - demographic changes and, 204
 - 4 Cs of culture guideline, 215
 - health disparities, 205–208
 - interpersonal considerations, 212
 - LEARN Guideline, 214–215
 - LGBTQ population, 224–227
 - need for, 204
 - overview (algorithm/flowchart), 216
 - practical guidelines, 212
 - traditional therapies and, 204–205
 - Cultural competence continuum**, 208, 209
 - Cultural competence models**, 208–213
 - Campinha-Bacote model, 208, 209–210
 - Cultural competence continuum, 208, 209
 - cultural desire, 213
 - cultural encounters, 211, 213
 - cultural knowledge, 210–211
 - cultural skills, 211–213
 - self-awareness and, 209–210
 - Cultural desire**, 210, 213
 - Cultural destructiveness**, 209
 - Cultural differences. See also Cultural competence**
 - communication, 48, 49–50
 - cultural differences, 48
 - flow of, 51
 - focuses and intents, 51–52
 - health, 205–207
 - nonverbal behavior, 54
 - nutrition assessment instrument, 107
 - Cultural encounters**, 210, 211, 213
 - Cultural Food Practices**, 239
 - Cultural groups**, 10, 205–207, 213
 - Cultural incapacity**, 209
 - Cultural knowledge**, 210–211
 - Cultural plurality**, 3, 204
 - Cultural pre-competence**, 209
 - Cultural proficiency**, 209
 - Cultural self-awareness**, 209–210
 - Cultural sensitivity, writing**, 306
 - Cultural skills**, 211–213
 - Cultural values**, 8
 - Culturally sensitive health care**, 226–227
 - Culturally sensitive open-ended questions**, 213
 - Culture**, 3–4, 7, 13, 204
 - Current exercise status**, 187
- D**
- Daily food record**, 104, 105
 - DARN**, 33, 35
 - DASH. See Dietary Approaches to Stop Hypertension (DASH)**
 - DASH Food Plan**, 131, 132–133
 - Data analysis questions**, 308
 - Data collection methods**, 268–270
 - de Shazer, Steve**, 28
 - Deafness**, 229, 231
 - Death, physical activity and**, 181
 - Debate**, 297
 - Decision in TTM**, 23
 - Decision-making**
 - ethical, 316–317
 - healthy lifestyle, 47
 - Decoding process**, 48
 - Demographic variables**, 141
 - Demographics**, 204
 - Demonstration**, 295, 302
 - Demonstration and feedback**, 146
 - Demonstrativeness**, 50
 - Department of Health and Human Services (HHS)**, 327
 - Depression**, 4
 - Destructive thoughts**, 144, 145
 - Developmental needs**, 268
 - DHHS. See U.S. Department of Health and Human Services (DHHS)**

- Diabetes**, 10, 11
 - physical activity and, 182, 189
 - Diabetes Control and Complications Trial**, 11, 145
 - Diabetes Stages of Change (DiSC)**, 23–24
 - Diary**, food, 104, 105
 - Didactic education**, 146
 - Diet history interview**, 105–107
 - culturally appropriate assessment instruments, 107
 - food frequency checklist, 106–107
 - protocol for, 106
 - 24-hour recall, 107
 - Diet options**, 87, 88
 - Dietary adherence**, 149
 - Dietary adherence assessment**, 77
 - Dietary Approaches to Stop Hypertension (DASH)**, 11, 109–111, 131, 355–357
 - Dietary assessment**, 102–111
 - client assessment questionnaire, 103–104
 - culturally appropriate assessment instrument, 107
 - data analysis, 107–109
 - defined, 102
 - diet history interview, 105–107
 - eating pattern questionnaire, 108
 - food diary and daily food record, 104, 105
 - food frequency checklist, 106–107
 - food intake data collection, 102–107
 - interpretation of analysis, 109–111
 - portion size, 104–105
 - 24-hour recall, 107
 - uses, 102
 - usual intake form, 105
 - Dietary history**, 103
 - Dietary Reference Intakes (DRIs)**, 109
 - Dietetics Career Development Guide (AND)**, 314, 330
 - Dietetics profession**, 314. *See also* Professionalism
 - Dieting**, 82
 - A Dietitian's Cancer Story: Information and Inspiration for Recovery and Healing From a Three-Time Cancer Survivor (Dyer)*, 205
 - Dietitians of Canada**, 111
 - Digital games**, 297
 - Directing response**, 55, 65–66, 69, 70
 - Disabilities**, 204, 207. *See also* Individuals with disabilities
 - Disagreeing**, 56
 - Disagreeing response**, 55
 - DiSC**. *See* Diabetes Stages of Change (DiSC)
 - Discrimination**, 206, 208
 - Discussion**, 295
 - Distant support buddy**, 158
 - Distortions**, 48
 - Distracting behaviors**, 52, 53
 - Distracting response**, 55
 - Document design**, 305–306
 - Documentation and charting**, 115–118
 - ADIME format, 118 (*See also* ADIME)
 - benefits, 115
 - evaluating counseling effectiveness, 174
 - general guidelines, 115
 - NCP, 125
 - SOAP format, 115–118
 - Domains of learning**, 277–281
 - Don Juan (Lord Byron)*, 171
 - Dorner, Becky**, 323
 - Do-Think-Feel**, 278
 - DOVE technique**, 2
 - Dramatic relief**, 21, 23
 - Drawing people out**, 250
 - Dress/attire**, 293, 320, 322
 - DRIs**. *See* Dietary Reference Intakes (DRIs)
 - Drug history questions**, 103
 - Duration, instructional plan**, 285
 - DVD recordings**, 297
 - Dyer, Diana**, 205
 - Dysfunctional thinking**, 143–145
- E**
- EARs**. *See* Estimated Average Requirements (EARs)
 - EatFit**, 27
 - Eating behavior**, cue management, 138
 - Eating behavior journal**, 373
 - Eating disorder not otherwise specified (EDNOS)**, 227
 - Eating disorders (EDs)**, 221, 227
 - Eating pattern questionnaire**, 108
 - Eating Well with Canada's Food Guide**, 111
 - eaTracker**, 300
 - eaTracler**, 111
 - Echoing**, 62
 - Economically disadvantaged people**, 4
 - EDNOS**. *See* Eating disorder not otherwise specified (EDNOS)
 - EDs**. *See* Eating disorders (EDs)
 - Educational games**, 297
 - Educational needs**, 267
 - Educational strategies websites**, 311
 - EIM**. *See* Exercise is Medicine (EIM)
 - Elderly Nutrition Program**, 222
 - Elderly persons**. *See* Older adults
 - Electronic monitoring**, 134
 - Electronics, sleep habits and**, 166
 - Eliot, Robert**, 160
 - Ellis, Albert**, 27
 - El-Tigi, Manal**, 285
 - Emerson, Ralph Waldo**, 7
 - Emotion**, 303
 - Emotional state**, 168
 - Emotional support**, 251
 - Emotion-based material**, 255, 304, 307
 - Empathizing**, 58–61, 68, 70
 - Empathy**, 55–56
 - Encoding process**, 48
 - Encouragement**, 140
 - Encouraging**, 250
 - Ending the counseling relationship**, 171–172, 336
 - Endurance**, 181
 - Energy determinations**, 111–112
 - Energy level**, 53
 - Engaging, motivational interviewing**, 33, 37
 - Entrepreneurial aptitude evaluation**, 322–323
 - Entrepreneurship**. *See* Private practice
 - Environmental cues**, 137–138
 - Environmental determinants of health**, 207
 - Environmental reevaluation**, 23
 - Epictetus**, 57, 142
 - Epworth Sleepiness Scale**, 164–165
 - Ergogenic aids**, 194
 - Erving, Julius**, 313
 - Estimated Average Requirements (EARs)**, 109
 - Estimates, journaling and**, 134
 - Ethical decision-making**, 316–317
 - Ethics**, 314–319
 - Ethics Education Facilitators' Guide**, 330
 - Ethnic foods**, 4
 - Ethnicity**, 206, 207
 - Ethnocentric**, 209
 - Evaluation**
 - counseling, 172–173
 - counseling effectiveness, 173–174
 - counseling effectiveness and professional behavior, 321
 - entrepreneurial aptitude, 322–323
 - final client, 173
 - formative, 309
 - instructional plan, 286
 - nutrition, 125
 - nutrition education interventions, 308–309
 - presentation, 294
 - reliability, 308
 - summative, 309
 - validity, 308
 - Evaluation, counseling models**, 75
 - Evaluation of client progress**, 172–173
 - Evaluation tools**, 286
 - Evidence Analysis Library (EAL)**, 129
 - Evidence-based guidelines**, 118
 - Evocation, motivational interviewing**, 31
 - Evocative questions**, 35
 - Evoking**
 - in interview process, 79
 - motivational interviewing, 33–34, 37
 - Example counseling sessions**. *See* Guided counseling experience
 - Examples**, 147
 - Exercise**. *See* Physical activity (PA)
 - Exercise is Medicine (EIM)**, 179, 187, 200
 - Expectations**, 26
 - Explanation, counseling models**, 75
 - Explanatory question**, 246
 - Explicit (specific) goals**, 333
 - Exploration-education phase**
 - counseling interview, 79, 82–85
 - cross-cultural nutrition counseling algorithm, 216
 - sample one-hour sessions, 336, 338–339, 343, 344, 348, 349, 351
 - Exploratory question**, 246
 - Explore (counseling response)**, 51
 - Expressiveness**, 50
 - Extremely active individuals**, 112
 - Eye contact**, 49, 53, 57, 293
- F**
- Facebook**, 298, 326
 - Facial expression**, 53
 - Facilitating lifestyle awareness**, 47
 - Facilitating positive action**, 11
 - Facilitation**, 27
 - Facilitator, group**, 248
 - Facilitator-generated information**, 255
 - Factual question**, 246
 - Fall protection**, 182
 - Family Nutrition and Physical Activity (FNPA) Screening Tool**, 218
 - Fatsecret**, 299
 - Fear**
 - motivating a client to change, 148
 - word choice, 60
 - Feedback**
 - assessment, physical activity, 189–190
 - counseling interview, 84
 - counseling response, 63, 68, 70
 - DASH food plan, 11
 - nonjudgmental, 11, 84, 134
 - relapse prevention, 170
 - Feeling words**, 60
 - Final client evaluation**, 173

- Final session**, 171–172. *See also* Counseling interview
- Fine-tune message**, 302
- “Fingertip knowledge,”** 298
- First session. *See also* Counseling interview**
 assessment, 83
 explain program and counseling process, 81–82
 opening, 80–81
- First-level generalization**, 281
- 5 A Day for Better Health program**, 274
- Flexibility**, 181, 186
- Flipcharts**, 295
- Flow of communication**, 51
- FNPA. *See* Family Nutrition and Physical Activity (FNPA) Screening Tool**
- Focus**
 counseling communication, 47, 51–52, 69–70
 in interview process, 79
 motivational interviewing, 33, 37
- Follow-up activities**, 251
- Food and Culture (Kittler, Sucher, Nahikian-Nelms)**, 239
- Food and nutrient delivery domain**, 124
- Food and nutrition-related history domain**, 103
- Food assistance programs**, 222
- Food choices**
 availability and variety, 4
 convenience and time, 3
 culture and religion, 3–4
 economics, 4
 health concerns, 3
 media and physical environment, 4
 nutrition knowledge, 3
 psychological influences, 4
 social influences, 4
 taste and food preference, 2–3
- Food component analysis**, 108
- Food composition tables**, 108
- Food diary and daily food record**, 104, 105
- Food frequency checklist**, 106–107
- Food frequency questionnaire**, 368
- Food group serving sizes**, 367
- Food guides**, 153–154
- Food habits**, 10, 11
- Food intake**
 data analysis, 107–109
 data collection, 102–107
 diet history interview, 105–107
 interpretation of analysis, 109–111
 usual intake form, 105
- Food laboratory lesson**, 297
- Food lists**, 131, 132
- Food management tools**, 131–133
 comparison of, 131
 DASH food plan, 131, 132–133
 detailed menus and meal plans, 131, 132
 goal setting, 131, 133
 meal replacements, 131, 132
 MyPlate, 131, 132–133
- Food record**, 365
- Fooducate**, 299
- Ford, Henry**, 332
- Formative evaluation**, 309
- Forms. *See* Lifestyle management forms (LMF)**
- 4 Cs of culture guideline**, 215
- Fowlkes, William C.**, 214
- Fracture**, 182
- FRAMES**, 91
- Franklin, Benjamin**, 289
- Free Management Library**, 264
- Functional ability**, 182
- Functional medicine**, 205, 235
- Funneling question**, 64
- G**
- Galileo**, 75
- Gallup Poll**, 328
- GAS. *See* Goal attainment scale (GAS)**
- Gay**, 226
- Gay, lesbian, bisexual, transgender, queer. *See* LGBTQ people**
- Gender**, 207
- Gender fluid**, 225
- Gender identity**, 225
- Gender nonconforming (GNC)**, 225
- Genderqueer**, 225
- General goals**, 81, 333
- Generalizations**, 281–282
- Generation Z**, 298
- Genetic determinants of health**, 207
- Gentle Stress Relief**, 175
- Geographic location**, 207
- Gestures**, 53, 54, 57
- Giving advice**, 55, 66
- Giving directives**, 65–66
- Giving feedback**, 63, 68, 70
- GNC. *See* Gender nonconforming (GNC)**
- Goal attainment scale (GAS)**, 173
- Goal setting**, 97–100
 basics, 97
 behavior change strategy, as, 140
 change options, 97–98
 food management tools, 131, 133
 goals over which client has control, 99
 nutrition education, 146
 nutrition education intervention, 276–277
 nutrition intervention, 124
 options tool, 98
 physical activity, 196–197
 plan of action, 100–102
 SMART, 97
 sound goals, 99
 specific vs. broadly stated goal, 98–99
- Goals. *See also* Goal setting; Goal setting**
 achievable, 97, 98, 99, 134
 attitude, 334
 broad, 99
 counseling interview, 81, 90
 defined, 99
 general, 81, 333
 Haney and Leibsohn model, 47
 instructional plan, 285
 journaling and, 134
 measurable, 99
 modify, if necessary, 100–101
 physical activity, 183–184
 positive, 99–100
 relapse prevention, 170
 skill, 333
 specific, 97, 98–99, 333
 verbalizing, 101
 writing down, 101–102
- Google slides**, 297
- Gradual stepwise modifications**, 149
- Greeting the client**, 80, 335
- Ground rules, group counseling**, 249, 254–255
- Ground rules, meetings**, 249
- Grounded theory intervention**, 272
- Group assessment**, 261
- Group facilitation and counseling**, 244–264
 advantages/disadvantages of group counseling, 251–252
 characteristics of group facilitator, 248
 closing the session, 258
 communication styles, 245
 consensus, 248–249
 corners, 248
 difficult group participants, 257–258
 evaluation of group interactions, 260–261
 facilitator likeability behaviors, 256
 facilitator-generated/group-generated information, 255
 facilitator’s responsibilities, 252–253
 follow-up activities, 251
 general guidelines, 259–260
 group meeting, 249–251
 Internet websites/readings, 264
 interview prospective group members, 260
 meeting room, 259–260
 open/closed groups, 252–258
 ORID, 248
 Pair-Share, 248
 problem-solving strategies, 255–256
 questions, 245–247
 refreshments, 260
 six-step group process, 253–258
 strategies to guide participation and flow of content, 250
- Group meeting**, 249–251
- Group problem-solving**, 251, 256
- Group-generated information**, 255
- The Guide to Providing Effective Communication and Language Assistance Services**, 238
- Guided counseling experience**, 332–353
 attitude goals, 334
 counseling style, 333
 informed consent protocol, 334
 session 1, 334–336, 337–342
 session 2, 336, 343–347
 session 3, 336, 348–350
 session 4, 336, 351–353
 skill goals, 333
 volunteer clients, 333
- Gynoid fat distribution**, 114, 126
- H**
- Habit, food choices**, 3
- Handouts**, 147
- Handshake**, 50
- Haney and Leibsohn model of counseling**, 47, 51
- Happiness (word choice)**, 60
- Harris Benedict equation**, 112
- Harvard Health Literacy Studies**, 311
- HBM. *See* Health belief model (HBM)**
- HDL. *See* High-density lipoprotein (HDL)**
- Head nodding**, 49, 54
- Health behavior change models. *See* Behavior change models**
- Health belief model (HBM)**, 17–19, 273
- Health care interpreters**, 215, 217–218
- Health care settings**, 266–267
- Health disparities**, 205–207
 among cultural groups, 206–207
 causes, 206–207
 LGBTQ people, 226
- Health needs**, 267
- Health Partners, Inc. (Minneapolis)**, 147

Health Professionals Advancing LGBT Equality, 239**Health Resources and Services**

Administration, 208

Healthy Body Health Spirit Trial, 36

Healthy Eating Index, 222

Healthy Eating Plate (Harvard), 109, 110

Healthy lifestyle decision-making, 47

Healthy People 2020, 179, 208, 226

Healthy sleep practices, 378

Healthy weight standards, 112–115

Healthyout, 300

Hearing impaired, 229, 231, 233

Heart rate, 185

Heavy meals, sleep habits and, 165

Helping relationships

applying theoretical approaches for, 40

behavioral process, 23

case study, 41

Helping relationships case study response

analysis, 68–69

HHS. See Department of Health and Human Services (HHS)

Hidden (invisible) disabilities, 232–234

High blood pressure, 89

High-context/low-context culture, 50

High-density lipoprotein (HDL), 182

Highly active individuals, 184

High-risk situations, 168, 169, 170

Hill, Martha N., 179

Hispanic Americans, health disparities, 206

Historical data form, 103–104

Hoop Dream (film), 56

Hubbard, Elbert, 167

Human treasure hunt guidelines, 249

Humor, 303

Humoring response, 55

Hypertension, 233

Hypothalamus, 161

I

“I Have a Dream” (King, Jr.), 294

iChat, 298

“ICIC” communications, 301

Identification, Evaluation, and Treatment of Overweight and Obesity in Adults, 10

Identifying common ground, 250

IFMNT. See Integrative and functional medical nutrition therapy (IFMNT)

iGeners, 298

iHome, 298

Illness-Disability- Healthcare-Caregiver Ministry Network, 229

Imagery, 144–145

ImgPlay GIF Maker, 312

Immediacy, 63

Immediate determinants, 167–169

Immigration laws, 204

In Brief: Your Guide to Lowering Your Blood Pressure with DASH, 110, 282**Inactive individuals**, 181, 184. *See also* Physical activity (PA)

Indirect calorimetry, 111

Individualization of therapy, 149

Individuals with disabilities, 229–234

disability websites, 239

hearing impaired, 229, 231, 233

invisible disabilities, 232–234

mobility impairment, 229, 230

speech disabilities, 231–232, 233

terminology, 230–233

visual impairment, 229, 230

Information Institute of Syracuse, 287**Informed consent protocol**, 334**Instagram**, 326**Instructional Media and Technologies for Learning**, 311**Instructional plan**, 282–286

assignments, 286

duration, 285

evaluation, 286

introduction or establishing set, 285

learning experiences, 285

lesson description/procedure, 285

prerequisites, 285

rules of thumb, 285

sample lesson plan, 283–284

specific goals, objectives, generalizations, 285

summary and closure, 286

target audience, 285

teaching materials and resources, 285

Insufficiently active individuals, 184**Intake form**, 103–104**Integrative and functional medical nutrition therapy (IFMNT)**, 205**Intense feeling (word choice)**, 60**Intents, counseling communication**, 48, 51–52, 69–70**Interactive educational experiences**, 148**Internal dialogue**, 142**International Association of Facilitators**, 264**International Food Information Council**

Foundation, 104, 311

Internet, marketing on, 325, 326**Interpersonal conflict**, 168**Interpreter**, 211

working with, 215, 217–218

Interpreting response, 55**Intervention, counseling models**, 75**Interview assessment form**, 174**Interview guides**, 173–174**Interview with client. See Counseling interview****Intrinsic motivation**, 268**Invisible disabilities**, 232–234**Involving phase**

counseling interview, 79, 80–82

cross-cultural nutrition counseling

algorithm, 216

sample one-hour sessions, 335, 338, 343, 348, 351

iPad, 298

iPhone, 298

iPod, 298

iTunes, 298

J**Joint Commission**, 125**Joint Commission on Accreditation of Healthcare Organizations (JCAHO)**, 115**Journaling**, 133–134

alternatives, 134–135

Journals/logs/forms. See Lifestyle management forms (LMF)**Judging response**, 55**Justifying question**, 246**K****KAB model. See Knowledge-attitude-behavior (KAB) model****Kahoot!**, 297

Kalidasa, 156

Keller, Helen, 11

Kennedy, John F., 179

Kentucky Diabetes Endocrinology Center, 82**Keys to successful interventions. See Nutrition education interventions**

Kipling, Rudyard, 203

KISS principle, 295

Klienman, Arthur, 214

Know your audience, 267–268**Knowledge, Campinha-Bacote model**, 210–211**Knowledge-attitude-behavior (KAB) model**, 271

Kotler, Philip, 274

KSA (Knowledge-Skills-Attitude), 278**L****Laboratories**, 297**Lag time self-talk**, 58**Language shift ideas**, 149**Language use**, 148, 149

Lao-Tzu, 100, 244

Lapse, 168. *See also* Relapse prevention**Lapse management**, 170**Latinos, communication style**, 49–50**Leading question**, 246**LEARN Guideline**, 214–215**Learning**, 47**Learning domains**, 277–281**Learning experiences**, 285**Learning outcomes**, 276–277. *See also* Goals**Learning strategies/activities. See Teaching strategies****Lecturing response**, 55**Legislative requirements**, 208**Legitimation**, 61, 68, 70**Leisure time events**, 390

Lesbian, 226

Lesson description/procedure, 285**Lesson plan. See Instructional plan**

Lewin, Kurt, 272

LGBTQ people

culturally sensitive health care, 226–227

discrimination against, 225

health disparities, 226

overview, 224–225

terminology, 225–226

in the United States, 225–226

Life span communication

adolescence, 220–221

middle childhood, 219–220

older adults, 221–224

preschool-aged children, 218–219

Life-changing events, 161**LIFESTEPS weight Management Program**, 95**Lifestyle Balance Manuals/Diabetes Prevention Program**, 153**Lifestyle changes**, 12. *See also* Making behavior

change last; Promoting change

Lifestyle management forms (LMF), 359–398

anthropometric feedback form, 369

assessment graphic, 360

CARE assessment, 387

client assessment questionnaire, 361–364

client concerns and strengths log,

370–371

counseling agreement, 374

counseling responses competency

assessment, 383–386

eating behavior journal, 373

food frequency questionnaire, 368

food group serving sizes, 367

- food record, 365
- forms, listed, 359
- healthy sleep practices, 378
- interview assessment form, 380–382
- medical release, 393
- physical activity, benefits, 388
- physical activity assessment and feedback form, 394–395
- physical activity log, 389
- physical activity options, 390
- Physical Activity Readiness Questionnaire (PAR-Q), 391–392
- Prochaska's and DiClemente's spiral of change, 379
- registration for nutrition clinic, 396
- stress, reducing, tips, 377
- stress, symptoms, 375
- stress awareness journal, 376
- student nutrition counseling agreement, 397–398
- student nutrition interview agreement, 372
- 24-hour recall/usual diet form, 366
- Life-threatening illness**, 10
- Lights, sleep habits and**, 164, 165
- Linguistic diversity**, 204
- LinkedIn**, 298, 326
- Listening**, 57–58
- Long-term goal**, 81
- Look AHEAD (Action for Health in Diabetes) Clinical Trial**, 132
- Lost It!**, 299
- Low active individuals**, 112
- Low-income households**, 4
- M**
- Maintenance stage (TTM)**, 20, 22
- Major life changes**, 161
- Making behavior change last**, 156–177
 - dealing with difficult situations, 159–160
 - Internet websites/readings, 175–176
 - mindful eating, 166–167
 - relapse prevention, 167–170
 - social network, 157–160
 - stress management, 160–164
- Making Health Communication Programs Work**, 311
- Making Nutrition Your Business: Private Practice and Beyond (Mitchell and Silver)**, 330
- Making space**, 250
- Making suggestions**, 55
- Mannerisms**, 53
- March of Dimes website**, 234
- Marketing**, 324–327
 - marketing plan, 325
 - self-promotion campaign, 324
 - social media marketing, 325–327
 - web-based marketing, 325
- Marketing mix**, 275–276
- Marketing plan**, 325
- Marketplace nutrition education**, 266
- Mass media materials**, 300–307
 - accuracy, 306
 - ASOAP analysis, 301, 303–304
 - audio and audiovisual messages, 301, 303
 - categories of intervention presentation styles, 302–303
 - cultural sensitivity, 306
 - document design, 305–306
 - emotion-based approach, 304, 306, 307
 - "ICIC," 301
 - media technique websites, 311–312
 - message development model, 301–302
 - paragraphs, 305
 - print materials, 301, 303–304
 - PSAs, 301
 - readability, 305
 - sentence structure, 305–306
 - text signaling, 305, 307
 - visual appeal, 306
- Materialism**, 7, 8
- Maximum heart rate (MHR)**, 185, 186
- Maximum oxygen uptake (VO₂ max)**, 198
- McCourt, Frank**, 56
- Mead, Margaret**, 247
- Meal plans**, 131, 132
- Meal replacements**, 131, 132
- Meals on Wheels Association of America**, 222
- Measurable goals**, 99
- Measuring outcomes**, 125
- Media messages**, 4
- Medical release**, 393
- Medical release form**, 189
- Meeting the client. See Counseling interview**
- Meeting time, group**, 259
- Meichenbaum, Donald**, 27
- Mental imagery**, 160
- Mental images**, 142
- Menus**, 131, 132
- Message development model**, 301–302
- MHR. See Maximum heart rate (MHR)**
- MI. See Motivational interviewing (MI)**
- Microanalysis of the scenario**, 160
- Middle childhood (6–12 years)**, 219–220
- Middle Easterners, communication style**, 49–50
- Mifflin-St Jeor equations**, 112
- Mild feeling (word choice)**, 60
- Milton, John**, 141
- Mindful eating**, 166–167
- Mindfulness**, 166
- Mindfulness-Based Eating Awareness Training**, 175
- Mini Nutritional Assessment (MNA)**, 222, 223, 239
- Minority stress**, 226
- Mirroring response**, 62, 68, 70
- MNA. See Mini Nutritional Assessment (MNA)**
- Mobility impairment**, 229, 230
- Model of communication**, 48
- Model/Modeling**
 - behavior change strategy, 140
 - behavioral therapy, 28
 - nutrition counseling, 2
- Moderate feeling (word choice)**, 60
- Moderate physical activity**, 181, 184
- Modification of Diet in Renal Disease Study**, 149
- Molly Kellogg website**, 72
- Monitoring and evaluation (M&E)**, 124–126
- Moralizing response**, 55
- Mortality, BMI and**, 113
- Motivated, confident clients**, 90–91
- Motivation**, 47
- Motivational Interviewing**, 30
- Motivational interviewing (MI)**, 29–36
 - acceptance, 30
 - adolescence, 220–221
 - application, 40
 - brief encounters, 37–38
 - change talk, 33–34
 - vs. client-centered counselling, 29
- compassion**, 30
- counseling skills**, 32–33
- defined**, 29
- empathy**, 29, 30
- evocation**, 31
- Internet websites/readings**, 43–45
- MI spirit**, 30–31
- motivational nutrition counseling algorithm**, 76
- OARS**, 32–33
- overview**, 29–30, 39
- partnership**, 30
- principles**, 33–34
- processes in**, 33–34, 37
- righting reflex**, 30
- spirit of**, 30–31
- vs. TTM**, 29
- weight bias**, 228
- Motivational Interviewing in Nutrition and Fitness (Clifford, Curtis)**, 200
- Motivational stages (TTM)**, 19–21
- MOVE!**, 179
- Move Your Way**, 179
- Moyers, Bill**, 314
- Multicultural population**, 204
- Multiple questions**, 64
- Multiple-pass procedure**, 107
- Muscular strength**, 185–186
- Musculoskeletal health, physical activity and**, 182
- Musculoskeletal injuries**, 183
- Music**, 303
- My Fitness Pal**, 299
- MyPlate**, 109, 110, 131, 132–133, 153, 154, 222
- N**
- Name-calling response**, 55
- Natal sex**, 235
- National Association for Health and Fitness**, 179
- National Association for Poetry Therapy**, 175
- National Association of the Deaf**, 231
- National Center for Cultural Competence**, 208, 238
- National Center for Health Marketing**, 274
- National Commission for Certifying Agencies (NCCA)**, 180
- National Council on Aging**, 222
- National Guideline Clearinghouse (NGC)**, 129
- National Health Interview Survey (2018)**, 179
- National Healthcare Disparities Report (2014)**, 208
- National Heart, Lung, and Blood Institute (NHLBI)**, 110, 112, 154, 282
- National Institute on Aging**, 239
- National LGBTQ Task Force Policy Institute**, 225
- National Nutrition Summit Information Resources**, 287
- National Nutrition Summit Information Resources**, 287
- National Organization on Disability**, 233
- National Partnership for Action to End Health Disparities**, 207
- National Physical Activity Plan**, 179
- National Sleep Foundation**, 175
- Native Americans, communication style**, 49–50
- NCCA. See National Commission for Certifying Agencies (NCCA)**
- NCP. See Nutrition care process (NCP)**
- NDTRs. See Nutrition and dietetics technicians, registered (NDTRs)**
- Needs assessment**, 267–268

- Negative emotional states, 168
 - Negative reinforcements, 138
 - Negative thinking, 142–143, 144–145
 - Net Geners, 298
 - New Perspectives on Curriculum, Learning and Assessment* (Scott), 286
 - NGC. *See* National Guideline Clearinghouse (NGC)
 - NHANES Food Frequency Questionnaire, 106
 - NHLBLI. *See* National Heart, Lung, and Blood Institute (NHLBLI)
 - NIH Plain Language Online Training, 311
 - Nonadherence counselor issues, 150–151
 - Non-binary, 225
 - Nondirective counseling, 29
 - Nonjudgmental feedback, 11, 84, 134, 189. *See also* Feedback
 - Nonverbal behavior
 - active listening, 57–58
 - analyzing/interpreting, 54
 - cultural differences, 54
 - distracting behaviors, 52, 53
 - effective/ineffective behaviors, 53
 - harmonizing verbal/nonverbal behavior, 53–54
 - identifying, 53
 - mirroring and matching, 53
 - Normalization, 61
 - Noting a discrepancy, 65, 69, 70
 - Novice counselor, 12, 333
 - Nutrition and Dietetics Profession, 316. *See also* Professionalism
 - Nutrition and dietetics technicians, registered (NDTRs), 314, 315
 - Nutrition assessment, 102, 120–121, 269
 - Nutrition assessment data domains, 103
 - Nutrition care plan, 96–129
 - dietary assessment (*See* Dietary assessment)
 - documentation and charting, 115–118
 - energy determinations, 111–112
 - goal setting, 97–100
 - healthy weight standards, 112–115
 - NCP (*See* Nutrition care process (NCP))
 - physical assessments, 112–115
 - plan of action, 100–102
 - Nutrition care process (NCP), 118–124, 314
 - ADIME, 117, 118 (*See also* ADIME)
 - documentation and charting, 125
 - intervention, 123–124
 - monitoring and evaluation (M&E), 124–126
 - nutrition assessment, 120–121
 - nutrition diagnosis, 121–122
 - nutrition prescription, 124
 - objectives, 119
 - overview (figure), 119
 - PES statement, 121–123
 - standardized language, 120
 - Nutrition care process and model diagram, 119
 - Nutrition care process (NCP) connection
 - behavior change models, 43
 - Nutrition care process domains, 103
 - Nutrition Care Process Terminology*, 120
 - Nutrition Care Process Terminology (NCPT) Reference Manual*, 121, 125
 - Nutrition counseling
 - abrupt endings, 172
 - building a relationship, 11
 - counseling evaluation, 172–173
 - counselor's effectiveness, 173–174
 - dealing with difficult issues, 159–160
 - defined, 2
 - diversity, 11
 - ending the counseling relationship, 171–172, 336
 - ethics, 314–319
 - facilitating positive action, 11
 - final session, 171–172
 - length and frequency of counseling sessions, 149–150
 - overview of counseling and interview process, 79
 - physical activity and, 187
 - physical surroundings, 150
 - protocols, 79–80
 - sample one-hour sessions (*See* Guided counseling experience)
 - tailor counseling to meet client needs, 149
 - vs. psychotherapy, 319–322
 - Nutrition counseling agreement, 397–398
 - Nutrition counseling domain, 124
 - Nutrition Counseling for Medical Nutrition, 95
 - Nutrition counseling goals, 47
 - Nutrition counseling models
 - overview, 75
 - readiness-to-change assessments, 77–79
 - student exercise, 77
 - Nutrition counseling motivational algorithm, 75–77
 - Nutrition counseling session. *See* Counseling interview
 - Nutrition counselor
 - communication skills, 5
 - congruence, 5
 - empathy, 6
 - ethical integrity, 5
 - evaluating counselor's effectiveness, 173–174
 - expert/empathizer, 12
 - flexibility, 5
 - foundation of knowledge, 5
 - gender and culture awareness, 5
 - honesty and genuineness, 5
 - meeting the client (*See* Counseling interview)
 - messages to convey to client, 97
 - nonadherence counselor issues, 150–151
 - novice counselor issues, 12
 - optimism and hopefulness, 6
 - in physical activity guidance, 179–181
 - professionalism (*See* Professionalism)
 - providing reassurance, 12
 - respect for others, 6
 - self-awareness, 5
 - self-examination, 7
 - sense of humor, 5
 - understanding your client, 10–11
 - understanding yourself, 7–10
 - weight bias, 228
 - Nutrition diagnosis, 121–122
 - Nutrition diagnosis domains, 121, 122
 - Nutrition diagnosis (PES) statement, 121–123
 - Nutrition diagnosis terminology, 120
 - Nutrition education, 2, 145–149
 - approaches, 147, 148
 - defined, 145
 - interactive educational experiences, 148
 - interventions (*See* Nutrition education interventions)
 - language, 148, 149
 - linkage of educational targets and interventions, 146
 - positive or negative approach, 148
 - Nutrition education domain, 124, 145
 - Nutrition education interventions, 265–288
 - educational approach, 271–272
 - evaluation, 308–309
 - goals and objectives, 276–280
 - know your audience, 267–268
 - learning strategies, 290–300 (*See also* Teaching strategies)
 - mass media materials (*See* Mass media materials)
 - overview (keys, listed), 267
 - theory-based interventions, 272–274
 - Nutrition Education: Linking Research, Theory & Practice* (Contento), 286
 - Nutrition education process model, 266
 - Nutrition education settings, 266–267
 - Nutrition Entrepreneurs, Practice group of the Academy of Nutrition and Dietetics, 330
 - Nutrition evaluation, 125
 - Nutrition intervention, 123–124
 - Nutrition intervention domains, 124
 - Nutrition intervention terminology, 120
 - "Nutrition Jeopardy," 297
 - Nutrition monitoring, 125
 - Nutrition prescription, 124
 - Nutrition Screening Initiative checklist, 222, 224
 - Nutritional analysis software program, 108
 - Nutrition-focused physical findings domain, 103
 - Nutritionist, 314
- O**
- OARS, 32–33
 - Obesity
 - BMI, 113, 114, 358
 - health risks, 114
 - waist circumference, 113, 114
 - Objectives, 277–280
 - Observational learning, 27
 - Obstacle thinking, 142
 - Occupational burnout, 327–328
 - Office of Dietary Supplements, 200
 - Office of Minority Health Resource Center, 238
 - Official Mini Nutritional Assessment (MNA) Website, 239
 - Older adults
 - determinants of food behavior, 221
 - developmental factors, 221–222
 - food assistance programs, 222
 - life span communication, 221–224
 - nutritional risks, 222
 - physical activity guidelines, 184
 - resources, 239
 - Older Americans Act, 222
 - Oldways Preservation and Exchange Trust, 153
 - One bite rule, 219
 - Open group, 252–253
 - Open-ended question, 32, 64, 69, 70
 - change talk, 87, 88–89
 - counseling interview, 80–81, 85, 87
 - culturally sensitive, 213
 - first session, 80–81
 - physical activity, 191, 193
 - readiness-to-change, 77
 - subsequent sessions, 81
 - Openness, 58
 - Operant conditioning, 28

- Opportunity thinking, 142
- Ordering response, 55
- ORID discussion method, 248
- Otto, Herbert, 15
- Outcome expectations, 26, 27
- Outcome measurements, 172
- Overhead projector, 295
- Overweight, 112. *See also* Obesity

- P**
- PA. *See* Physical Activity (PA)**
- PACE program**, 196
- Pacific Islanders, health disparities**, 206
- Pair-Share**, 248
- Pansexual**, 226
- Paragraphs**, 305
- Paraphrasing**, 250
- Paraphrasing response**, 62–63, 68, 70
- PAR-Q. *See* Physical Activity Readiness Questionnaire (PAR-Q)**
- Parroting response**, 62
- Partnership, motivational interviewing**, 30
- Partnership statement**, 62, 68, 70, 81
- Passive learning**, 290
- Pathways to Change intervention**, 24
- Patient education. *See* Nutrition education**
- Patient Protection and Affordable Care Act of 2010**, 208
- Patronizing a client**, 12
- Pavlov, Ivan**, 28
- Pawtucket Heart Health Program**, 276
- PBS Kids**, 297
- Pear Deck**, 297
- People skills inventory**, 6
- People with disabilities. *See* Individuals with disabilities**
- Perceived barriers**, 18, 19
- Perceived behavioral control**, 24–25
- Perceived benefits**, 18, 19
- Perceived exertion**, 185
- Perceived severity**, 17, 18, 19
- Perceived susceptibility**, 17, 18, 19
- Perception of quality of care**, 150
- Periodic summaries**, 62–63, 173
- Periscope**, 326
- Personal accounts**, 147
- Personal bias**, 58
- Personal inventory of attitudes, ethical issues**, 318–319
- Personal support response**, 61–62, 68, 70
- Personalized Family Media Use Plan**, 218
- Person-centered counseling**, 29
- PES statement**, 121–123
- The Philadelphia Story* (film)**, 56
- Phone interpreters**, 217
- Physical activity (PA)**, 111, 112, 178–202
 - action plan development, 196–197
 - aerobic, level of, 184–186
 - assessment/feedback form, 394–395
 - assessments of, 187–190
 - barriers to, 187
 - benefits, 388
 - benefits of, 181–182
 - case study, 197–198
 - counseling protocols, 187
 - daily routine, planning, 390
 - everyday opportunities, 390
 - exercise myths, 183
 - fitness and, 181–183
 - flexibility, 181, 186
 - goal setting, 196–197
 - goals, 183–184
 - health and, 179–180
 - initiatives, 179
 - injury risks, 182–183
 - Internet websites/readings, 200–202
 - leisure time events, 390
 - level factors, 112
 - log, 389
 - moderate, 181, 184
 - motivational counseling algorithm, 188
 - not ready to change (level 1), 190–192
 - options, 390
 - PAR-Q, 391–392
 - Physical Activity Guidelines for
 - Americans, 183–184
 - physically active (level 4), 194–196
 - planning, 196–197
 - preparticipation screening flowchart, 180
 - professional, 189
 - ready to change (level 3), 193–194
 - referral resources, 180
 - resolving phase, 190–196
 - role of nutrition counselor, 179–181
 - sleep habits and, 165
 - social support, 196
 - sport-specific nutrient needs, 194–195
 - sustainability, 196
 - unsure about changing (level 2), 192–193
 - vigorous, 184–185
 - walking, 197
- Physical activity readiness**, 187–189
- Physical Activity Readiness Questionnaire (PAR-Q)**, 188–189, 391–392
- Physical assessments and healthy weight standards**, 112–115
- Physical environment**
 - cue management, 137
 - group problem-solving, 256
 - plan of action, 100
- Physical fitness**, 181
- Physical surroundings**, 150
- Pilot testing**, 308
- Ping-O-Matic**, 326
- Pinterest**, 326
- Pittsburgh Sleep Quality Index**, 164
- Plan of action**, 100–102
 - cognitive environment, 100
 - modify goal, if necessary, 100–101
 - physical environment, 100
 - positive coping talk, 100
 - social support, 100
 - tracking technique, 101
 - verbalize the goal, 101
 - writing the goal, 101–102
- Planning**
 - in interview process, 79
 - motivational interviewing, 34, 37
 - physical activity, 196–197
- Podcasting**, 298
- Population based nutrition action domain**, 124
- Population trends**, 204
- Portion size**, 104–105
- Positive behaviors**, 90
- Positive coping talk**, 100
- Positive emotional states**, 168
- Positive goals**, 99–100
- Positive messages**, 148
- Positive outcome expectancies**, 168
- Positive reinforcements**, 138, 148
- Positive self-talk**, 141
- Posture**, 53
- PowerPoint presentations**, 295, 297. *See also* Presentation
- Practice sessions. *See* Guided counseling experience**
- Praising response**, 55
- Preaching response**, 55
- Precontemplation stage (TTM)**, 19, 21
- Precontemplative clients**, 86–88
- Pregnancy**
 - physical activity guidelines, 184, 189
- Prejudices**, 9, 228
- PREMIER study**, 37
- Preparation, counseling models**, 75
- Preparation stage (TTM)**, 19–20, 22
- Prerequisites, instructional plan**, 285
- Preschool-aged children**
 - life span communication, 218–219
 - physical activity guidelines, 183
- Presentation**
 - add “sparkle” periodically, 292
 - body, 291–292
 - dress/attire, 293
 - evaluation, 294
 - eye contact, 293
 - KISS principle, 295
 - memorable ending, 292
 - organization of, 291–292
 - pointers for delivery, 292–293
 - PowerPoint, 295, 297
 - presentation learning curve, 291
 - presenter never–evers, 293–294
 - rehearse, 293
 - speak naturally and clearly, 292
 - visual aids, 295–297
 - vocal variety, 292
- Presentation learning curve**, 291
- Presidential Youth Fitness Program**, 179
- Print messages/materials**, 301, 303–304
- Private practice**, 322–324
 - basic business knowledge, 324
 - business plan, 324
 - entrepreneurial aptitude evaluation, 322–323
 - focus area, 323
 - habits required for success, 325
 - Internet websites/readings, 330–331
 - marketing, 324–327
 - professional credentials and achievements, 323
 - professional support systems, 324
- Probing response**, 55, 64–65
- Problem solving**, 140–141, 255–256
- Problematic questions**, 64
- Prochaska's and DiClemente's spiral of change**, 379
- Professional, physical activity**, 189
- Professional advice**, 88
- Professional support systems**, 324
- Professionalism**, 313–331
 - appearance/attire, 320, 322
 - client rights, 319
 - code of ethics, 316, 319
 - confidentiality, 319
 - continuing education, 314
 - counseling effectiveness and professional behavior evaluation, 321
 - credentials, 315, 323
 - defined, 314
 - education requirements, 315

Professionalism (continued)

- ethics, 314–319
- Internet websites/readings, 330–331
- practice management and advancement, 314, 315
- practice resources, 314, 315
- practice standards, 314, 315
- private practice (*See* Private practice)
- referrals, 320
- self-care, 327–328
- telehealth, 327
- telenutrition, 327

Proficiency, 48**ProFinder™, 180****Program evaluation questions, 308****Promoting change, 130–155**

- behavior change strategies, 135–141
- cognitive restructuring, 141–145
- education during counseling, 145–149
- food management tools, 131–133
- gradual stepwise modifications, 149
- Internet websites/readings, 154–155
- making change last (*See* Making behavior change last)
- patient education, 145–149
- strategies, 131
- supporting self-management, 149–151
- terminology, 149
- tracking, 133–135

Prompting response, 64–65**PSAs. *See* Public service announcements (PSAs)****Psychological theories/approaches. *See* Behavior change models****Psychomotor domain, 279, 280, 281****Psychotherapy, 319****Public service announcements (PSAs), 301****Published data, 268****Q****Qualitative research, 269****Quann, Eileen, 229****Quantitative research, 269****Queer, 226****Question**

- closed-ended, 64, 70
- counseling strategies, 32
- data analysis, 308
- drug history, 103
- evocative, 35
- funneling, 64
- group setting, in, 245–247
- multiple, 64
- open-ended, 32, 64, 69, 70, 77, 80–81, 85, 87, 88–89, 213
- problematic, 64
- program evaluation, 308
- readiness-to-change assessments, 78
- respondent-driven interview, 211, 213
- self-evaluating, 144
- sleep habits, 164
- socially loaded, 270
- tried-and-true, 63
- types, 245–246
- why, 64

Question-answer traps, 64**Questioning**

- communication roadblock, 55
- counseling response, 64, 65
- cultural differences, 50

R**Race, 204, 207****Rational emotive behavior therapy (REBT), 27, 144****RDAs. *See* Recommended Dietary Allowances (RDAs)****RDN. *See* Registered dietitian nutritionist (RDN)****Readability, 305****Readiness-to-change assessments, 77–79**

- exercise, 77
- importance and confidence, 79
- questions and algorithm, 78
- resolving phase, 86

Readiness-to-change graphic, 77, 78**Readiness-to-change open-ended questions, 77****Readiness-to-change scale question, 77****Reassuring, 56****Reassuring response, 55****Reciprocal determinism, 26****Recommended Dietary Allowances (RDAs), 109****Recordings, 297****Record-keeping, 134****Recovery Record, 239****REE. *See* Resting energy expenditure (REE)****Referrals, 320****Reflection (empathizing), 58–61****Reflective listening, 32–33, 81****Registered dietitian nutritionist (RDN), 314, 315****Registration for nutrition clinic, 396****Regulatory requirements, 208****Rehearsing rebuttals, 58****Reinforcement, 27**

- behavior change strategies, 138
- contracting, 139–140
- management, 23
- positive, 138, 148

Relapse, 168**Relapse prevention, 167–170**

- apparently irrelevant decisions, 169
- cognitions, 169
- cognitive restructuring, 170
- coping skills, 168
- counseling, 169–170
- covert antecedents, 169
- high-risk situations, 168, 170
- immediate determinants, 167–169
- lapse management, 170
- overview (flowchart), 168
- positive outcome expectancies, 168
- reaction to a lapse, 168–169
- resources, 176
- self-efficacy, 170
- stress level, 169
- urge management techniques, 170
- urges and cravings, 169

Relapse prevention counseling, 169–170**Relapse Prevention Therapy (RPT), 175****Relationship building responses, 57, 81. *See also* Counseling responses****Relaxation & Stress Reduction Workbook, The (Davis, Eshelman, McKay, and Fanning), 175****Relaxation activities, 136****Relaxation response, 170****Reliability, 308****Religion, 3–4****Resolving phase**

- counseling interview, 79, 85–91
- cross-cultural nutrition counseling algorithm, 216
- physical activity, 190–196

- sample one-hour sessions, 335, 336, 339, 340, 341, 344, 345, 346, 349, 351–352

Resource needs, 268**Respect response, 61, 68, 70****Respondent-driven interview questions, 211, 213****Resting energy expenditure (REE), 111, 112****Rewards, 138****Ridiculing response, 55****Righting reflex, 30****Roadblocks, communication, 54–55****Rogers, Carl, 29****Rogers, Will, 80****Role-playing, 159, 160, 297****RPT. *See* Relapse Prevention Therapy (RPT)****S****Sadness (word choice), 60****Safety, physical activity planning, 196****Sample counseling. *See* Guided counseling experience****Sarnoff, David, 96****Satcher, David, 190*****The Scalpel and the Silver Bear* (Alvord/Van Pelt), 56****Scents, 322****School Nutrition Association, 219****School setting, 267****SCORE. *See* Service Corps of Retired Executives (SCORE)****SCT. *See* Social cognitive theory (SCT)****Second-level generalization, 281–282****Sedentary individuals, 112****Self Care, The Center for Mind Body Medicine, 330****Self-awareness, cultural competence models, 209–210****Self-care, 327–328****Self-disclosing response, 67, 69, 70****Self-efficacy**

- behavior change model, 16–17, 40
- health belief model, 18, 19, 273
- motivational nutrition counseling algorithm, 76
- relapse prevention, 170
- social cognitive theory, 26, 27
- support groups, 90
- TTM, 23

Self-evaluating questions, 144**Self-evaluation, counseling models, 75****Self-help materials, 147****Self-involving response, 67****Self-liberation, 23****Self-management education, 145****Self-promotion campaign, 324****Self-reevaluation, 23****Self-referent response, 67, 69, 70****Self-regulation, 26, 27****Self-sufficiency, 10****Selye, Hans, 161****Senior Farmer's Market Nutrition Program (SFMNP), 222****Seniors. *See* Older adults****Sensitive language, 228****Sensory appeal, food choices, 2–3****Service Corps of Retired Executives (SCORE), 324****Serving sizes, 367****Sexual orientation, 207, 225****SFMNP. *See* Senior Farmer's Market Nutrition Program (SFMNP)****Shakespeare, William, 325**

- Shaming response, 55
 - Sheehan, Susan, 56
 - ShopWell, 300
 - Short-term goal, 101
 - Sign language, 215, 217
 - Silence, 66–67, 69, 70, 250
 - Simulations, 297
 - SixSteps Facilitation Video, 264
 - Skill goals, 333
 - Skillful Teacher: On Technique, Trust, and Responsiveness in the Classroom, The*, 311
 - Skills, 56
 - cultural competence models, 210, 211–213
 - development stages, 47–48
 - Skinner, B. F., 28
 - Sleep counseling, 164–166
 - Sleep habits
 - general recommendations for, 165–166
 - sample questions, 164
 - Sleep practices, 378
 - Slice of Life, 302
 - Small business. *See* Private practice
 - Small Business Administration, 324
 - Small talk, 80
 - SMART board, 295
 - SMART goals, 97
 - SMART objectives, 277
 - Smiling, 50, 53
 - SMOG conversion table, 306
 - SMOG Readability Calculator, 311
 - Smoking, sleep habits and, 165
 - SNAP. *See* Supplemental Nutrition Assistance Program (SNAP)
 - SNAP Nutrition Education, 222
 - Snapchat, 326
 - SOAP format, 115–118
 - Social cognitive theory (SCT), 26–27, 39, 135, 273
 - Social context, 157
 - Social determinants of health, 206–207
 - Social disclosure, 159, 255
 - Social environment
 - cue management, 137
 - group problem-solving, 256
 - Social events, 137
 - Social learning theory. *See* Social cognitive theory (SCT)
 - Social liberation, 23
 - Social marketing, 274–276
 - basic principles, 274–275
 - “Control Your Diabetes. For Life,” 276
 - defined, 274
 - partnership, 276
 - Pawtucket Heart Health Program, 276
 - place, 275
 - policy, 276
 - price, 275
 - product, 275
 - promotion, 275
 - publics, 276
 - purse strings, 276
 - Social Marketing: Influencing Behaviors for Good* (Lee & Kotler), 286
 - Social Media for Nutrition Professionals, 330
 - Social media marketing, 325–327
 - Social network, 157–160
 - Social networks, 298
 - Social pressures, 159–160, 168
 - Social support, 100, 137, 157–159, 196
 - “Socially loaded” question, 270
 - Societal groups, 7
 - Society for Nutrition Education and Behavior, 219, 287
 - Socrates, 265
 - Sodium-restricted diet, 149
 - Software apps, 298
 - Solution-focused therapy, 28–29, 39, 40, 76
 - SOP. *See* Standards of Practice (SOP)
 - Sound bites, 147
 - Sound goals, 99
 - Special Supplemental Nutrition Program for Women, Infants and Children Program, 234
 - Specific goals, 97, 98–99, 333
 - Speech disabilities, 231–232, 233
 - Spirit Catches You and You Fall Down, The* (Fadiman), 239
 - Sport-specific nutrient needs, 194–195
 - Stacking, 250
 - Stage of change algorithm, 77, 78
 - Stage of life. *See* Life span communication
 - Stages of change model, 19. *See also* The Transtheoretical Model (TTM)
 - Standardized nutrition terminology, 120
 - Standards of Practice (SOP), 314
 - Stem tentative phrase, 59
 - Stereotypes, 207
 - Stimulus control, 23
 - Stimulus control (cue management), 136, 137–138
 - STOP, 141
 - Stories, 147
 - Strength, 181
 - Stress, 4
 - counseling, 162–163
 - creative arts resources, 175
 - defined, 157
 - indicators of, 161
 - physiological response, 161
 - reducing, tips, 377
 - sleep habits and, 166
 - sources of, 161
 - stress awareness journal, 376
 - stress reduction strategies, 162
 - symptoms, 375
 - Stress Free Now*, 175
 - Stress management counseling, 162–163
 - Stress management resources, 175
 - Stretching exercises, 186
 - Stroke, 233
 - Student nutrition counseling agreement, 397–398
 - Student nutrition interview agreement, 372
 - Student practice sessions. *See* Guided counseling experience
 - Subjective norm, 24
 - Submissive communication style, 245
 - Subsequent sessions, 81
 - Sudden cardiac deaths, 182
 - Sugar intake, 3
 - Suggestions, 56
 - Sullivan, Annie, 11
 - Summaries, 32, 85, 87–88, 286
 - Summarizing, 62–63
 - Summative evaluation, 309
 - Supernatural assumptions, 7, 8
 - Supplemental Nutrition Assistance Program (SNAP), 222
 - Support group, 90, 158
 - Supportive language, 148
 - Supportive reading materials, 147
 - Supportive statement, 62
 - Survey, 269–270
 - Sustain talk, 33–34
 - practice identifying, 35
 - Sustainable factors, physical activity planning, 196
 - Sympathizing response, 55
 - Synchrony, 53
- T**
- T'ai Chi Chuan, 186
 - Talk Like TED: The 9 Public-Speaking Secrets of the World's Top Minds*, 311
 - Target audience, 285
 - Target heart rate, 185, 186
 - Target zone, 185, 186
 - Taste preferences, 2–3, 149
 - Teaching materials, instructional plan, 285
 - Teaching strategies, 290–300
 - action-oriented techniques, 297
 - demonstration, 295
 - discussion, 295
 - learning domains and strategies, 298, 300
 - presentation, 290–294
 - technology-based techniques, 297–300
 - visual aids, 295–297
 - TeamNutrition.usda.gov, 311
 - Technical jargon, 147
 - Technology-based nutrition education activities, 297–300
 - TEE. *See* Total energy expenditure (TEE)
 - Telehealth, 327
 - Telenutrition, 327
 - Terminating the counseling relationship, 171–172, 336
 - Termination letter, 172
 - Termination stage (TTM), 20
 - Terminology, 120, 149
 - Testimonials, 302
 - Text signaling, 305, 307
 - The Transtheoretical Model (TTM), 19–23
 - measuring outcomes, 23–24
 - motivational stages, 19–21
 - Theoretical question, 246
 - Theory, 272
 - Theory and Practice of Group Counseling* (Corey), 264
 - Theory of planned behavior (TPB), 24–25, 39
 - application of, 25
 - diagram, 24
 - student exercise, 25
 - theory-based constructs in educational settings, 273
 - Theory of reasoned action, 24
 - Theory-based interventions, 272–274
 - Theory-driven intervention, 272
 - Theory-informed intervention, 272
 - Thermic effect of food, 111
 - Thinking patterns, 142–145
 - Third-level generalization, 282
 - Thoreau, Henry David, 178
 - Thorndike, Edward, 28
 - Thought stopping, 144
 - Threatening response, 55
 - THTM. *See* Touching Hearts, Touching Minds (THTM)
 - Title VI of the Civil Rights Act of 1964, 208
 - Tolerable Upper Intake Levels (ULs), 109
 - Total energy expenditure (TEE), 111, 112
 - Touching, 50
 - Touching Hearts, Touching Minds (THTM), 252–254, 304
 - TPB. *See* Theory of planned behavior (TPB)

Tracking methods

- group meeting, 250
- promoting change, 133–135

Tracking technique, goal, 101**Traditional therapies, 204–208****Training, journaling and, 134****Traits, 47****Transgender man, 225****Transgender woman, 225****Transition statement, 338, 339, 343, 344, 348, 349, 351****The Transtheoretical Model (TTM)**

- behavior change guide, as, 23
- motivational nutrition counseling algorithm, 76
- overview (table), 21–22, 39
- student exercise, 20

Tried-and-true questions, 63**TTM. *See* The Transtheoretical Model (TTM)****TTY, 231****Twain, Mark, 130, 167****24-hour recall, 107****24-hour recall/usual diet form, 107, 366****Twitter, 326****2018 Physical Activity Guidelines, 189****Two-spirit, 225****A Typical day strategy, 83, 84, 107****U****ULs. *See* Tolerable Upper Intake Levels (ULs)****Unconscious cues, 138****Unnecessary words, 305****Unsure, low confidence clients, 88–90****Urge management techniques, 170****Urge surfing, 170****Urges, 169****U.S. Department of Health and Human Services (DHHS), 208****U.S. Olympic Committee's (USOC) Food and Nutrition Services, 194****U.S. Small Business Administration, 323****USDA five-step multiple-pass method, 107****USDA Food and Nutrition Information**

- Center, Dietary Guidance, 129

USDA Nutrient Database, 108**USDA Nutrition and Weight Management website, 153****Useful questions, 64****USOC. *See* U.S. Olympic Committee's (USOC) Food and Nutrition Services****Usual diet form, 107****Usual intake form, 105****V****Validity, 308****Value clarification card sort, 36****Van Pelt, Elizabeth, 56****Variety of food intake, 4****Verbal following, 57****Very active individuals, 112****Verywell Fit, 300****Video, audiotape, or observation evaluations, 174****Video clips, 297, 298****Videoshop Video Editor, 312****Vigorous physical activity, 184–185****Visual aids, 295–297****Visual impairment, 229, 230****Visuals, 147****Vitamin B12, 222****Vitamin D, 222****Vocal style, 53, 57****Vocal variety, presentation, 292****Voices.com, 330****W****Waist circumference, 113–114****Walking, 197****Warning, 56****Warning response, 55*****Way to Eat: A Six Step Path to Lifelong Weight Control, The* (Katz), 154****Web-based advertising, 326****Web-based marketing, 325, 326****Web-based nutrition education activities, 299–300****WebQuest model, 298****webQuest.org, 311****Website creation, 325, 326****Weibe, G. D., 274*****Weighing the Options—Criteria for Evaluating Weight-Management Programs*****(Thomas), 129, 176****Weight****BMI, 112–113, 114, 358****counselor bias, 228****eating disorders, 227****height-weight tables, 112****obesity (*See* Obesity)****physical activity and, 182****Weight bias, 227–228****Weight loss program, 153****Weight management, food lists for, 131, 132****Weight monitoring discussion, 82****Weight-for-height tables, 112****Wharton, Edith, 74****Wheelchair use, 229, 230*****When I Was Puerto Rican* (Sheehan), 56****Whiteboard, 295****Whole School, Whole Community, Whole Child (WSCC) Program, 219****Why questions, 64****WIC. *See* Women, Infants, and Children (WIC) programs****Wii, 298*****Wild Swans: Three Daughters of China* (Chang), 8****Wilke, Harold, 229****Wireless text messaging, 298****Withdrawing response, 55****Wolpe, Joseph, 28****Women, Infants, and Children (WIC)**

- programs, 234, 252, 304

Working out with weights, 183**Works Resource System (WWRS), 234****Worksite programs, 267****Worldview, 7–8, 9****WSCC. *See* Whole School, Whole Community, Whole Child (WSCC) Program****WWRS. *See* Works Resource System (WWRS)****Y****Yale Rudd Center for Food Policy and Obesity, 228****Yerkes, Mary, J., 229, 233****Yoga, 186*****Your Guide to Lowering Your Blood Pressure with DASH*, 154****YouTube, 297, 298, 310****Z****Zaltman, Gerald, 274**