Contents

List of Contributors, viii
Preface, xiv

Part I Fundamentals of Nutrition Assessment

Chapter 1 Overview of Nutrition Assessment in Clinical Care, 3
Lisa Hark, Darwin Deen, and Alix J. Pruzansky
  Case 1 Obesity and Metabolic Syndrome, 22
  Xavier F. Pi-Sunyer
  Case 2 Obesity and Bariatric Surgery, 31
  Doina Kulick and Vicki Bovee

Chapter 2 Vitamins, Minerals, and Dietary Supplements, 49
Kelly Keenan, Herbert A. Hodgson, and Darwin Deen
  Case 1 Iron Deficiency Anemia in Women, 83
  Darwin Deen, Arielle Elmaleh-Sachs, and Lisa Hark
  Case 2 Drug–Herb Interaction with St. John’s Wort, 89
  Ara DerMarderosian and Melissa G. Marko
  Case 3 Nutrient Deficiencies and Lead Poisoning in Children, 95
  Gerald F. O’Malley, Rika N. O’Malley, and Heather McMahon

Part II Nutrition Throughout the Life Cycle

Chapter 3 Nutrition in Pregnancy and Lactation, 111
Elizabeth Horvitz West, Lisa Hark, and Darwin Deen
  Case 1 Prevention of Neural Tube Defects, 129
  Frances Burke, Amy McKeever, and Stephanie Rand
  Case 2 Encouraging Breastfeeding, 137
  Ruth A. Lawrence and Catherine Sullivan

Chapter 4 Infants, Children, and Adolescents, 146
Carine M. Lenders, Kathy Ireland, and Andrew M. Tershakovec
  Case 1 Overweight Child with Insulin Resistance, 173
  Andrew M. Tershakovec and Lisa Hark
  Case 2 Malnutrition and Refeeding Syndrome in Children, 181
  John A. Kerner and Jo Ann T. Hattner,
  Case 3 Eating Disorders in Adolescent Athletes, 187
  Diane Barsky, Thomas A. Novack, and Andrea St. Cyr
Chapter 5 Older Adults, 197
Cecilia Borden and Lisa Hark

Case 1 Malnutrition and Depression, 214
Katherine Galluzzi, Barry W. Rovner, and Stephen V. Di Sabatino
Case 2 Macular Degeneration, 221
Philip Storey, Hirsh Sharma, and Lisa Hark
Case 3 Menopause and Weight Gain, 227
Lynne Bucovetsky, Amanda J. Skwara, and Lisa Hark

Part III Integrative Systems and Disease

Chapter 6 Cardiovascular Disease, 241
Jo Ann S. Carson, Scott M. Grundy, and Lisa Hark

Case 1 Disorders of Lipid Metabolism, 257
Wahida Karmally and Henry Ginsberg
Case 2 Hypertension and Lifestyle Modifications, 266
Frances Burke, Emil M. deGoma, and Andrew Zheng
Case 3 Metabolic Syndrome and Lp(a) Genetic Defect, 274
Erik Kelly, Lisa Hark, and Danielle Duffy

Chapter 7 Gastrointestinal Disease, 288
Julie Vanderpool and Charles P. B. Vanderpool

Case 1 Alcohol and Vitamin Deficiencies, 308
David J. Axelrod
Case 2 Malabsorption, 314
Priyamvada M. Pitale and Prachi Vishwasrao
Case 3 Celiac Disease, 322
Marilyn S. Edwards, Andrew W. Du Pont, and Rachel Grosso

Chapter 8 Endocrine Disease: Diabetes Mellitus, 332
Marion J. Franz

Case 1 Type 1 Diabetes Mellitus and Diabetic Ketoacidosis, 346
Judith Wylie-Rosett and Brian W. Tobin
Case 2 Type 2 Diabetes Mellitus, 356
Samuel N. Grief, Frances Burke, and Sunil Adige
Case 3 Polycystic Ovary Syndrome, 364
Erik Blomain, Marilyn S. Edwards, and Dara Blomain

Chapter 9 Pulmonary Disease, 375
Horace M. DeLisser, Bianca Collymore, and Calvin Lambert Jr.

Case 1 Chronic Obstructive Pulmonary Disease, 383
Horace M. DeLisser, Bianca Collymore, Calvin Lambert Jr., and Stephanie Dobak
Case 2 Obstructive Sleep Apnea and Metabolic Syndrome, 391
Indira Gurubhagavatula, Sharon D. Perkins, and Katherine M. Fellenstein
Case 3: Cystic Fibrosis, 402
Laura M. Grande and Maria R. Mascarenhas
Chapter 10 Renal Disease, 410
Jean Stover, Gail Morrison, and Susan Lupackino
Case 1 Chronic Renal Failure Advancing to Dialysis, 427
Jean Stover and Gail Morrison

Part IV Fundamentals of Oncology and Nutrition Support

Chapter 11 Cancer Prevention and Treatment, 439
Tamara Bockow Kaplan, Monica H. Crawford, and Pranay Soni
Case 1 Prevention of Colon Cancer, 460
Samantha Brackett, Gerald A. Isenberg, and Benjamin R. Phillips

Chapter 12 Enteral Nutrition Support, 469
Jill Murphree and Douglas L. Seidner
Case 1 Enteral Feeding and Esophageal Cancer, 479
Monica H. Crawford and Andrew Chapman

Chapter 13 Parenteral Nutrition Support, 488
Monica Habib, Laura Matarese, and Ezra Steiger
Case 1 Colon Cancer and Post-Operative Care, 497
José Antonio S. Ruy-Diaz Renoso and Diana Orenstein

Appendices, 505
Review Questions, 523
Review Answers, 552
Index, 555