

Contents

About the Editors	vii
Contributors	ix
Acknowledgments	xiii
Foreword	xv
Preface	xvii
PART I: GASTROINTESTINAL ANATOMY, DIAGNOSTICS, AND ASSESSMENT	
Chapter 1 The Gastrointestinal System	3
Gerard E. Mullin, MD, CNSP, FACN, AGAF, and Monica L. Riegert, MSN, DNP, CRNP	
Chapter 2 Gastrointestinal Tests and Procedures	9
Gerard E. Mullin, MD, CNSP, FACN, AGAF, and Amy K. Fischer, MS, RD	
Chapter 3 Nutrition Assessment for Patients with Gastrointestinal Disorders	20
Mary E. Hise, PhD, RD, CNSC, and Yolanda Cartwright, PhD, RD	
Chapter 4 Nutrition Assessment and Nutrient Requirements in Critical Care	38
Jennifer C. Lefton, MS, RD, CNSC, FAND, Annette M. Carpenter, RD, CNSC, and Jennifer R. Carter, RD, CNSC	
PART II: NUTRITION AND GASTROINTESTINAL TRACT DISORDERS	
Chapter 5 Small Intestine Malabsorptive Disorders	47
Carol Rees Parrish, MS, RD, Nora Rahn Baumgart, MS, RD, CNSC, and Barbara J. Goodin, MS, RD, CDE	
Chapter 6 Common Gastrointestinal Symptoms	63
Kathy T. Barco, RD, CNSC, Mary Jo Alberino, RD, CNSC, Kristen M. Roberts, MS, RD, LD, Jodi Wolff, MS, RD, LD, CNSC, and Neha R. Parekh, MS, RD, LD, CNSC	

Chapter 7	Inflammatory Bowel Disease	79
	S. Devi Rampertab, MD, FACG, AGAF, and Amy C. Brown, PhD, RD	
Chapter 8	Short Bowel Syndrome	89
	Laura E. Matarese, PhD, RDN, LDN, CNSC, FADA, FAND, FASPEN, and Hossam M. Kandil, MD, PhD	
Chapter 9	Irritable Bowel Syndrome	99
	Bani Chander Roland, MD, and Gerard E. Mullin, MD, CNSP, FACN, AGAF	
Chapter 10	Celiac Disease	108
	S. Devi Rampertab, MD, FACG, AGAF	

PART III: NUTRITION AND LIVER AND EXOCRINE DISORDERS

Chapter 11	Liver Disease	129
	Dawn McDowell Torres, MD, and Gerard E. Mullin, MD, CNSP, FACN, AGAF	
Chapter 12	Pancreatic Disease	137
	Arlene Stein, MS, RD, CDN, CNSD, Sunita Sidhu-Buonocore, MD, and James H. Grendell, MD	

PART IV: GASTROINTESTINAL ONCOLOGY AND SURGERY

Chapter 13	Gastrointestinal Oncology	147
	Mary J. Marian, MS, RD, CSO	
Chapter 14	Gastrointestinal Tract Surgery	168
	Gail A. Cresci, PhD, RD, CNSC	
Chapter 15	Bariatric Surgery	182
	Karen M. Buzby, RD, LDN	

PART V: SYSTEMIC DISORDERS AND SPECIFIC POPULATIONS

Chapter 16	Obesity	205
	Mary Margaret Huizinga, MD, MPH	
Chapter 17	Eating Disorders	212
	Carolyn Coker Ross, MD, MPH, and Gerard E. Mullin, MD, CNSP, FACN, AGAF	
Chapter 18	Food Allergy and Food Intolerance	222
	John Leung, MD, and Sheila E. Crowe, MD, FRCPC, FACP, FACG, AGAF	

PART VI: THERAPEUTIC INTERVENTIONS FOR GASTROINTESTINAL DISORDERS

Chapter 19 Enteral Nutrition	235
Angela A. MacDonald, DCN, RD, CNSC	
Chapter 20 Parenteral Nutrition	258
Jennifer C. Lefton, MS, RD, CNSC, FAND,	
Annette M. Carpenter, RD, CNSC,	
Jennifer R. Carter, RD, CNSC,	
and Suzanne M. Lugerner, MS, RN, LDN, CNSC, CNS	
Chapter 21 Pediatric Enteral and Parenteral Nutrition	267
Jenifer L. Thompson, MS, RD, LDN, CSP,	
and Tiffani Lynn Hays, MS, RD, LDN	
Chapter 22 Home Parenteral and Enteral Nutrition	282
Therese L. Austin, MS, RD, LD, CNSC,	
and Karen M. Sexton-Hamilton, MS, RD, LD, CNSC	
Chapter 23 Drug-Nutrient Interactions with Gastrointestinal Drugs	296
Carol J. Rollins, MS, PharmD, RD, BCNSP, FASPEN	
Chapter 24 Nutraceutical Supplements	312
Gerard E. Mullin, MD, CNSP, FACN, AGAF	
Chapter 25 Probiotics	324
Gerard E. Mullin, MD, CNSP, FACN, AGAF	
Chapter 26 Ethical and Legal Issues in Gastrointestinal Nutrition Interventions	333
Denise Baird Schwartz, MS, RD, CNSC, FADA, FAND, FASPEN	
Appendix Resources on Artificial Nutrition	345
Denise Baird Schwartz, MS, RD, CNSC, FADA, FAND, FASPEN	
Index	349