

TABLE OF CONTENTS

Nutritional Care I	1
Nutritional Care I Panel	3

Nutritional Supplements in Older Adults

By Leigh Ann Mike, Pharm.D., BCPS, BCGP; Jennifer M. Toy, Pharm.D., BCACP; and Lingtak-Neander Chan, Pharm.D., FACN, BCNSP

Introduction	7
Factors That May Affect the Safety and Efficacy of Nutritional Supplements	8
w-3FA Supplementation in Older Adults	9
Vitamin E Supplementation in Older Adults	13
Vitamin D Supplementation and Monitoring in Older Adults	16
Major Ongoing Clinical Research	24
References	25
Self-Assessment Questions	28

Nutritional Deficiencies after Bariatric Surgery

By April N. Smith, Pharm.D., M.A., BCPS; and Dhiren Patel, Pharm.D., BC-ADM, BCACP, CDE

Introduction to Bariatric Surgery	33
Preoperative Nutrition Planning and Related Diabetes Medication Adjustments	35
Postoperative Nutrition Planning and Related Diabetes Medication Adjustments	36
Detecting and Treating Nutrient Deficiencies	39
Bariatric Surgery Specialty Vitamins and Supplements	43
Additional Enteric Consequences of Bariatric Surgery	46
Conclusion	48
References	49
Self-Assessment Questions	50

Billing and Reimbursement for Clinical Pharmacist Services

By Mary Ann Kliethermes, Pharm.D.

Introduction	53
Revenue Sources for Pharmacist Services	54
Process for Revenue Generation for Pharmacy Services	59
Revenue-Generating Options for Pharmacists	62
Special Billing Situations Available for Pharmacists Through Medicare	67
Developing a Sustainable Reimbursement Plan	71
Medicare Access and CHIP Reauthorization Act of 2015	72
Value-Based Purchasing Payment Models	76
Conclusion	77
References	77
Self-Assessment Questions	79

Gastroenterologic Care I	83
Gastroenterologic Care I Panel	85

Gastroesophageal Reflux Disease

By Carey Jones, Pharm.D., BCPS, BCACP; and Tony Huynh, Pharm.D., BCACP

Introduction	89
Clinical Manifestation	90
Diagnosis	93
Treatment of GERD	95
Special Populations	104
Patient Education	108
Conclusion	108
References	109
Self-Assessment Questions	111

IBD Management and Specialty Pharmacy

By Kelly L. Galen, Pharm.D., BCPS; and Lisa M. Kumor, Pharm.D., BCACP

Introduction	115
Treatment Algorithm for CD	116
Treatment Algorithm for UC	118
Pharmacologic Treatment	120
Special Populations	129
Role of Specialty Pharmacy	131
Conclusion	134
References	134
Self-Assessment Questions	138

Gastroenterologic Care II	143
Gastroenterologic Care II Panel	145

Nonalcoholic Fatty Liver Disease

By Allison M. Bell-Harlan, Pharm.D., M.Sc., BCPS; and Michelle T. Martin, Pharm.D., BCPS, BCACP

Introduction	149
Guideline Recommendations for NAFLD Treatment	152
Pharmacotherapy Options for Treating NAFLD	155
Nutrition and NAFLD	160
Gut Microbiome	163
Conclusion	164
References	165
Self-Assessment Questions	168

Drug Information and Electronic Resources

By Jamie N. Brown, Pharm.D., BCPS, BCACP; and Melissa Murfin, Pharm.D., BCACP, PA-C

Introduction	171
Systematic Approach to Drug Information	172
Websites and Online Databases	181
Mobile Applications	181
Conclusion	186
References	186
Self-Assessment Questions	188