CONTENTS

FOREWORD, XI
PREFACE, XIII
ACKNOWLEDGMENTS, XV

CHAPTER 1: CANCER DIAGNOSIS AND TREATMENT, 1

- 1.1. THE DIAGNOSIS OF CANCER, 1
- 1.2. TUMOR CLASSIFICATION, 8
- 1.3. CANCER TREATMENT, 14
- 1.4. RISK FACTORS FOR CANCER, 28
- 1.5. CASE EXAMPLES, 30
- 1.6. DISCUSSION QUESTIONS, 33
- 1.7. FURTHER READING, 33

CHAPTER 2: GASTROINTESTINAL CANCER SYNDROMES, 35

- 2.1. ANATOMY, 36
- 2.2. COLORECTAL CANCER, 45
- 2.3. GASTRIC (STOMACH) CANCER, 47
- 2.4. PANCREATIC CANCER, 49
- 2.5. LYNCH SYNDROME, 51
- 2.6. FAMILIAL ADENOMATOUS POLYPOSIS/ATTENUATED FAMILIAL ADENOMATOUS POLYPOSIS, 62
- 2.7. MUTYH-ASSOCIATED POLYPOSIS, 68
- 2.8. NTHL1 TUMOR SYNDROME, 73

VIII CONTENTS

- 2.9. POLYMERASE PROOFREADING-ASSOCIATED POLYPOSIS SYNDROME, 75
- 2.10. JUVENILE POLYPOSIS SYNDROME, 79
- 2.11. PEUTZ-JEGHERS SYNDROME, 84
- 2.12. PTEN HAMARTOMA TUMOR SYNDROMES, 88
- 2.13. HEREDITARY MIXED POLYPOSIS SYNDROME, 90
- 2.14. SERRATED POLYPOSIS SYNDROME, 92
- 2.15. HEREDITARY DIFFUSE GASTRIC CANCER SYNDROME, 96
- 2.16. FAMILIAL ATYPICAL MULTIPLE MOLE MELANOMA SYNDROME, 101
- 2.17. HEREDITARY PANCREATITIS/FAMILIAL PANCREATITIS, 105
- 2.18. SHORT REVIEWS, 111
- 2.19. FURTHER READING, 114

CHAPTER 3: BREAST AND GYNECOLOGICAL CANCER SYNDROMES, 129

- 3.1. ANATOMY, 129
- 3.2. OVERVIEW OF COUNSELING ISSUES, 131
- 3.3. SELECTED BREAST AND GYNECOLOGIC SYNDROMES, 133
- 3.4. CASE EXAMPLES, 157
- 3.5. DISCUSSION QUESTIONS, 160
- 3.6. FURTHER READING, 160

CHAPTER 4: RARE TUMOR PREDISPOSITION SYNDROMES, 163

- 4.1. OVERVIEW OF RARE TUMOR SYNDROMES, 163
- 4.2. OVERVIEW OF COUNSELING ISSUES WITH RARE TUMOR SYNDROMES, 171
- 4.3. CLINICAL FEATURES OF SELECTED RARE TUMOR SYNDROMES, 173
- 4.4. CASE EXAMPLES, 204
- 4.5. Discussion Questions, 207
- 4.6. FURTHER READING, 207

CHAPTER 5: PEDIATRIC TUMOR PREDISPOSITION SYNDROMES, 209

- 5.1. Counseling Issues, 209
- 5.2. PEDIATRIC TUMOR PREDISPOSITION SYNDROMES, 213
- 5.3. CASE EXAMPLES, 262
- 5.4. DISCUSSION QUESTIONS, 265
- 5.5. FURTHER READING, 266

CONTENTS

CHAPTER 6: CANCER FAMILY HISTORIES (COLLECTION AND INTERPRETATION), 269

- 6.1. COLLECTING A CANCER HISTORY, 269
- 6.2. CHALLENGES TO COLLECTING AN ACCURATE HISTORY, 289
- 6.3. INTERPRETING A CANCER HISTORY, 293
- 6.4. CASE EXAMPLES, 299
- 6.5. DISCUSSION QUESTIONS, 303
- 6.6. FURTHER READING, 304

CHAPTER 7: CANCER RISK ASSESSMENT AND RISK MODELS, 307

- 7.1. RISK DEFINITIONS, 308
- 7.2. RISK PERCEPTION AND CANCER RISK, 310
- 7.3. RISK FACTORS, 312
- 7.4. RISK MODELING, 318
- 7.5. GENETICS CRITERIA, 330
- 7.6. CASE EXAMPLES, 333
- 7.7. DISCUSSION QUESTIONS, 334
- 7.8. FURTHER READING, 335

CHAPTER 8: GENETIC TESTING TECHNOLOGIES, 337

- 8.1. OLDER TECHNOLOGIES, 338
- 8.2. Newer Technologies, 348
- 8.3. CLINICAL ISSUES, 357
- 8.4. CASE EXAMPLES, 363
- 8.5. Discussion Questions, 365
- 8.6. FURTHER READING, 366

CHAPTER 9: PRE- AND POST-TEST GENETIC COUNSELING, 369

- 9.1. TRADITIONAL PRE-TEST GENETIC COUNSELING SESSION, 371
- 9.2. Pre-Test Strategies for Genetic Counselors, 384
- 9.3. OTHER PRE-TEST GENETIC COUNSELING CONSIDERATIONS, 387
- 9.4. ALTERNATIVE SERVICE DELIVERY MODELS FOR PRE-TEST EDUCATION, 388
- 9.5. TRADITIONAL POST-TEST GENETIC COUNSELING, 390

X CONTENTS

- 9.6. POST-TEST GENETIC COUNSELING WHEN THE GENETIC COUNSELOR WAS NOT INVOLVED IN PRE-TEST EDUCATION, 396
- 9.7. Possible Patient Reactions to Results, 397
- 9.8. FOLLOW-UP GENETIC COUNSELING, 399
- 9.9. PSYCHOLOGICAL ASSESSMENT THROUGHOUT THE GENETIC TESTING PROCESS (SEE ALSO CHAPTER 11), 401
- 9.10. SUMMARY AND FUTURE DIRECTIONS, 403
- 9.11. CASE EXAMPLES, 404
- 9.12. Discussion Questions, 405
- 9.13. FURTHER READING, 406

CHAPTER 10: SPECIAL POPULATIONS AND SPECIAL SITUATIONS, 409

- 10.1. Counseling for Special Populations, 409
- 10.2. Counseling About Unanticipated Results, 417
- 10.3. CASE EXAMPLES, 421
- 10.4. Discussion Questions, 425
- 10.5. FURTHER READING, 425

CHAPTER 11: PSYCHOSOCIAL ASPECTS OF CANCER GENETIC COUNSELING, 429

- 11.1. CONTEXTUAL INFORMATION ABOUT PATIENTS, 430
- 11.2. PATIENT REACTIONS, COPING RESPONSES, AND RISK PERCEPTION, 442
- 11.3. STRATEGIES FOR PROVIDING PSYCHOSOCIAL COUNSELING, 446
- 11.4. STRATEGIES FOR EFFECTIVE PSYCHOSOCIAL GENETIC COUNSELING, 454
- 11.5. PROVIDING ADDITIONAL EMOTIONAL SUPPORT, 461
- 11.6. CASE EXAMPLES, 468
- 11.7. Discussion Questions, 473
- 11.8. FURTHER READING, 473

CHAPTER 12: ETHICAL ISSUES IN CANCER GENETIC COUNSELING AND TESTING, 475

- 12.1. BIOETHICAL PRINCIPLES AND FRAMEWORK, 476
- 12.2. PUTTING ETHICS INTO PRACTICE, 484
- 12.3. Types of Ethical Dilemmas in Cancer Genetic Counseling, 492
- 12.4. CASE EXAMPLES, 501
- 12.5. DISCUSSION QUESTIONS, 504
- 12.6. FURTHER READING, 504

INDEX, 507