Contents

1.	Advances in the Treatment of Moderate-to-severe Ulcerative Colitis: Anti-TNFs and Beyond
2.	 New Drugs 7 Surgical Management of Ulcerative Colitis
3.	 Indications for Surgery 19 Surgical Technique 22 Microscopic Colitis
	 Catriona Scicluna, John Schembri, Pierre Ellul Epidemiology 29 Pathophysiology 29 Genetic Factors and Microscopic Colitis 30 Environmental Factors 31 Clinical Features 33 Diagnosis 34 Management 38
4.	Eosinophilic Gastroenteritis: Eosinophilic Gastrointestinal Disorders Distal to the Esophagus49 Her Hsin Tsai
	 Epidemiology 50 Pathogenesis 50 Clinical Features 50 Clinical Assessment 50 Diagnosis 55 Differential Diagnosis 55 Natural History and Clinical Course 58 Management 58





	1
	•7
7.	77
_	\sim

5.	Eosinophils and the Gut: Eosinophils in the Human Intestinal Tract in Normal Conditions and Major Colorectal Diseases
	 Structural and Functional Characteristics of Mature Eosinophils 65 Migration of Eosinophils to the Gut 67 Functions of Eosinophils in the Normal Gut 68 Eosinophils in the Major Colorectal Diseases 70
6.	Gut Mucus and its Functional Significance in Health and Disease86
	Alexandre Loktionov
	 Mucus Composition and Structure Throughout the Gastrointestinal Tract 86
	 Mucus as a Component of the Intestinal Protective Barrier 88 Gut Mucus and Microbiome 90
	 Host Cell Exfoliation and Migration from the Epithelial Surface to Mucus Layers in Normal Physiological Conditions 91
	 Gut Mucus Changes Associated with Inflammatory Bowel Disease 92 Gut Mucus Changes Associated with Colorectal Cancer 95
7.	Ten Common Errors in the Treatment of Helicobacter Pylori Infection
	Common Errors in the Treatment of <i>Helicobacter Pylori</i> Infection 107
8.	Artificial Intelligence in Gastroenterology151 Corinna Hauff, Her Hsin Tsai
	 Application of Artificial Intelligence in Gastrointestinal Radiology 155 Artificial Intelligence in Gastrointestinal Endoscopy 159 Key Points for Clinical Practice 164
9.	Improving Polyp Detection at Colonoscopy167 Sreedhari Thayalasekaran, Pradeep Bhandari
	• Simple Measures 168
	Water-assisted Colonoscopy 170
	 Colonoscopy Technology 170 Artificial Intelligence 177
10.	Post-endoscopic Retrograde Cholangiopancreatography Pancreatitis184
	Arjun Sugumaran
	 Complications Following an ERCP 185 Post-ERCP Pancreatitis 185





ΥV



1	
11.	Management of Nonalcoholic Fatty Liver Disease196 Stephen Malnick, Ali Abdullah
	 Dietary Changes 197 Lifestyle Changes 198 Bariatric Surgery 199 Medical Therapy of Nonalcoholic Fatty Liver Disease 199
	• Where do we Go from Here? 206
12.	Management of Hepatitis C
	 Pathogenesis 224 Clinical Presentations and Natural History of Diseases 225 Diagnosis 227 Treatment 229
13.	Neurological Complications in Liver Diseases238
	J Zizzo, Z Rahaman, AR Jayakumar
	 Hepatic Encephalopathy 239 Hepatitis 241
	Hepatic Myelopathy 249
14.	The Impact of COVID-19 on Gastroenterology261 Her Hsin Tsai
	 The Structure of SARS-CoV-2 261 Epidemiology 262 The Effect of SARS-CoV-2 on the Gastrointestinal Tract 263 Effect of COVID-19 on Gastrointestinal Endoscopy 264 Effect of COVID-19 on Patients with Pre-existing Gastrointestinal Diseases 265 Effect of COVID-19 on Delivery of Gastrointestinal Services 265
, ,	





