
Contents

1	The History of Wireless Capsule Endoscopy: From a Dream to a Platform of Capsules	1
	Rami Eliakim	
	References	4
2	The Current Main Types of Capsule Endoscopy	5
	Zhaoshen Li, Dan Carter, Rami Eliakim, Wenbin Zou, Hao Wu, Zhuan Liao, Zhaotao Gong, Jinshan Wang, Joo Won Chung, Si Young Song, Guohua Xiao, Xiaodong Duan and Xinhong Wang	
2.1	The Given Imaging Capsule Endoscopy Platform: Clinical Use in the Investigation of Small Bowel, Esophageal and Colonic Diseases	5
2.2	EndoCapsule	16
2.3	OMOM Capsule Endoscopy Platform	18
2.4	MiroCam	24
2.5	The Ankon Magnetic-Controlled Capsule Endoscopy Platform in the Clinical Investigation of Stomach Diseases	35
2.6	CapsoCam	39
	References	40
3	Small Bowel Capsule Endoscopy	47
	Imdadur Rahman, Praful Patel, Emanuele Rondonotti, Anastasios Koulaouzidis, Marco Pennazio, Rahul Kalla, Reena Sidhu, Peter Mooney, David Sanders, Edward J. Despott, Chris Fraser, Niehls Kurniawan, Peter Baltes, Martin Keuchel, Carolyn Davison, Nigel Beejay, Clare Parker and Simon Panter	
3.1	Preparation for Small Bowel Capsule Endoscopy	48
3.2	Obscure Gastrointestinal Bleeding	52
3.3	The Use of Capsule Endoscopy for Small Bowel Crohn's Disease	61
3.4	Capsule Endoscopy in Coeliac Disease	66
3.5	Polyposis Syndromes	76

3.6	Less Common Indications for Small Bowel Capsule Endoscopy	80
3.7	Optimising Safety in Small Bowel Capsule Endoscopy	91
	References	100
4	Oesophageal Capsule Endoscopy	119
	Anastasios Koulaouzidis, Sarah Douglas and John N. Plevris	
4.1	Oesophageal Capsule	119
4.2	Ingestion Protocol	120
4.3	Clinical Use of Oesophageal Capsule Endoscopy	121
4.4	Oesophageal Varices Screening	123
4.5	Contraindications and Complications	124
4.6	Alternatives	125
4.7	Specialised Groups	125
4.8	Capsule Options for the Future	125
	References	126
5	Colon Capsule Endoscopy	129
	Cristiano Spada and Samuel Adler	
5.1	Regimen of Preparation and Procedure	129
5.2	Indications and Contraindications	131
5.3	Results	133
5.4	Safety and Feasibility	134
5.5	Conclusions	134
	References	134
6	Non-imaging Capsule Endoscopy: The Wireless Motility Capsule to Assess Gut Motility	137
	Anton Emmanuel	
6.1	Introduction	137
6.2	Methodology	137
6.3	Measurement Parameters	138
6.4	Clinical Utility	138
6.5	Safety	141
6.6	Clinical Applications of the WMC	141
6.7	Limitations	142
6.8	Summary	142
	References	142
7	Capsule Endoscopy in Pediatrics	145
	Salvatore Oliva and Stanley Cohen	
7.1	Small Bowel Capsule Endoscopy in Pediatrics	145
7.2	The Esophageal Capsule in Pediatric Patients	148
7.3	The Colon Capsule in Pediatric Patients	149
	References	149

8	Comparison of Capsule Endoscopy and Device-Assisted Enteroscopy	153
	Sung Chul Park and Hoon Jai Chun	
8.1	Introduction	153
8.2	Conclusion.	160
	References	160
9	Future Development of Capsule Endoscopy	165
	Melissa F. Hale and Mark McAlindon	
9.1	Introduction	165
9.2	Technical Improvements	165
9.3	Novel Indications	166
9.4	Novel Directions	167
9.5	Conclusion.	168
	References	168
10	Case Presentations	171
	Zhuan Liao, Min Tang, Qiang Guo, Bangmao Wang, Qiong He, Fachao Zhi, Mark McAlindon, Dan Carter, Rami Eliakim, Anastasios Koulaouzidis, Sarah Douglas, Wenbin Zou, Zhizheng Ge and Zhaoshen Li	
10.1	Small Bowel Capsule Endoscopy I	171
10.2	Small Bowel Capsule Endoscopy II	176
10.3	Small Bowel Capsule Endoscopy III.	181
10.4	Small Bowel Capsule Endoscopy IV.	186
10.5	Small Bowel Capsule Endoscopy V	187
10.6	Esophageal Capsule Endoscopy	190
10.7	Gastric Capsule Endoscopy	193
10.8	Colon Capsule Endoscopy	195
	Index	197

Handbook of Capsule Endoscopy

Li, Z.-S.; Liao, Z.; McAlindon, M. (Eds.)

2014, XI, 199 p. 135 illus., 129 illus. in color., Hardcover

ISBN: 978-94-017-9228-8