

Contents

Part I Pathology and Tumor Biology

- 1 Epidemiology** 3
Young-Joo Won
- 2 Molecular Alterations in Pancreatic Cancer** 11
Toru Furukawa
- 3 Pathological Classification** 25
Yue Xue, Michelle D. Reid, and Nazmi Volkan Adsay
- 4 Controversial Issues in Pathological Diagnosis** 53
Akio Yanagisawa
- 5 Operative Specimen Handling and Evaluation
of Resection Margins** 67
Caroline Sophie Verbeke
- 6 Tumor Markers** 89
Ji Kon Ryu

Part II Diagnostic Modalities

- 7 Imaging Diagnosis of Pancreatic Cancer: CT and MRI** 95
Jeong Min Lee and Jeong Hee Yoon
- 8 Endoscopic Diagnosis** 115
Takao Itoi and Atsushi Sofuni
- 9 PET and Other Functional Imaging** 123
Keon Wook Kang

Part III Treatment Guideline

- 10 Staging and Determination of Resectability
of Pancreatic Cancer** 133
Motoki Miyazawa, Seiko Hirono, and Hiroki Yamaue

11	Current Issues of Borderline Resectable Pancreatic Ductal Adenocarcinoma	139
	Jason W. Denbo and Jason B. Fleming	
12	Guidelines for the Management of Pancreatic Cystic Neoplasms	151
	Masao Tanaka	
13	Guideline for the Management of Pancreatic Neuroendocrine Tumor	161
	Gabriele Spoletini, Domenico Tamburrino, Francesca Muffatti, Stefano Crippa, Valentina Andreasi, Stefano Partelli, and Massimo Falconi	
 Part IV Surgical Treatment		
14	The History and Evolution of Pancreaticoduodenectomy	175
	James F. Griffin and Christopher L. Wolfgang	
15	Major Vascular Resection in Pancreatic Carcinoma	185
	Karl-Frederick Karstens, Yogesh K. Vashist, and Jakob R. Izbicki	
16	Retroperitoneal Nerve Plexus Dissection During Pancreatoduodenectomy	193
	Tsutomu Fujii, Akimasa Nakao, and Yasuhiro Kodera	
17	Mesenteric Approach for Pancreaticoduodenectomy	201
	Seiko Hirono and Hiroki Yamaue	
18	Artery-First Approach for Pancreatic Cancer	207
	Sanjay Pandanaboyana and John A. Windsor	
19	Mesopancreas Excision for Pancreatic Cancer	215
	Yosuke Inoue and Akio Saiura	
20	Concepts in Isolated Pancreatectomy for Pancreatic Cancer Using the Nakao Mesenteric Approach and Catheter Bypass of the Portal Vein	225
	Akimasa Nakao	
21	Role of Extended Resection in Pancreatic Cancer	231
	Jin-Young Jang	
22	Type of Reconstruction After Pancreatoduodenectomy	239
	Yi-Ming Shyr and Shin-E Wang	
23	The Concept of Customized Pancreatoduodenectomy	247
	Sun-Whe Kim	
24	Distal Pancreatectomy with <i>En Bloc</i> Celiac Axis Resection (DP-CAR) for Advanced Pancreatic Body Cancer	261
	Satoshi Hirano	

25	Radical Antegrade Modular Pancreato-splenectomy (RAMPS).....	269
	Julie G. Grossman and Steven M. Strasberg	
26	Laparoscopic Distal Pancreatectomy in Pancreatic Cancer.....	281
	Ho-Seong Han	
27	Robotic Application for Pancreatectomy	285
	Jason C. Maggi, Melissa E. Hogg, Herbert J. Zeh, and Amer H. Zureikat	
28	Organ-Preserving Pancreatectomy	295
	Wooil Kwon and Sun-Whe Kim	
29	Minimally Invasive Surgery for Pancreatic Cancer.....	305
	Song Cheol Kim and Ki Byung Song	

Part V Morbidity and Perioperative Care of Pancreatectomy

30	Pancreatic Fistula	317
	Alessandra Pulvirenti, Giorvanni Marchegiani, Antonio Pea, Roberto Salvia, and Claudio Bassi	
31	Delayed Gastric Emptying	329
	Masaji Tani	
32	Postoperative Bleeding	335
	Dong Wook Choi and Huisong Lee	
33	Rare Complications After Pancreatectomy	349
	Dong-Sup Yoon	
34	Late Metabolic Complications After Pancreatectomy	357
	Yoo-Seok Yoon	
35	Enhanced Recovery Program After Pancreatectomy	365
	Sang-Jae Park	
36	Drain Management After Pancreatectomy.....	377
	Manabu Kawai and Hiroki Yamaue	

Part VI Nonoperative Therapy

37	Chemotherapy in the Management of Pancreatic Cancer.....	387
	Nai-Jung Chiang and Li-Tzong Chen	
38	Radiation Therapy	421
	Jinhyun Choi and Jinsil Seong	
39	Endoscopic Intervention.....	437
	Sung-Hoon Moon and Myung-Hwan Kim	

40	Personalized Peptide Vaccine for Advanced Pancreatic Cancer	445
	Shigeru Yutani and Kyogo Itoh	
41	Emerging New Treatment Modalities: Irreversible Electroporation	453
	Robert C.G. Martin II	
	Index	469