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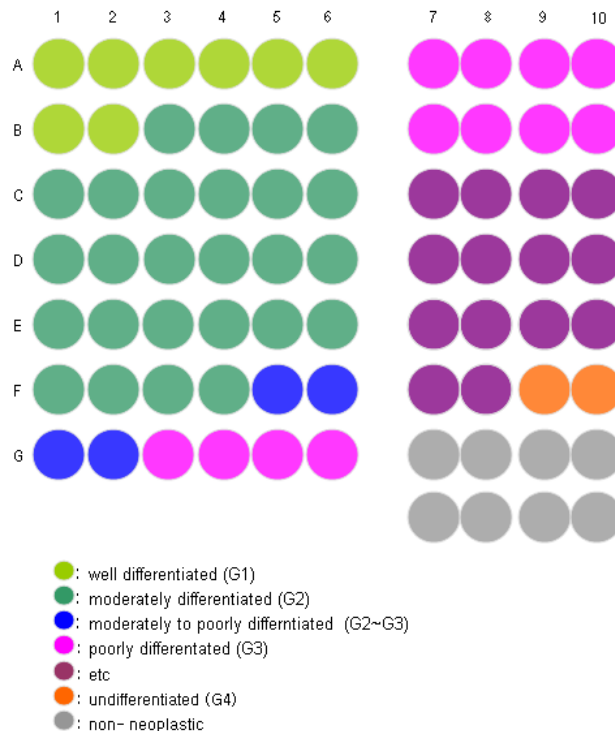
Specifications:

- No. of cases: 33
- Tissue type: Pancreas cancer tissues
- No. of spots: 2 spots from each cancer case (66 spots)
8 non-neoplastic spots (8 spots)
- Total spots: 74
- Corresponding normal tissues with cancers: Yes
- Diameter: 1.0 mm

Documents:

- Product specification: layout, summary of tissue spots
- H&E stained images
- Detailed pathological information

Layout:



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Summary of tissue spots

No	Coordina	Sex	Age	Key word	Grade	TNM	
1	A	1,2	m	51	Adenocarcinoma	G1	
2		3,4	m	70	Adenocarcinoma	G1	
3		5,6	m	39	Adenocarcinoma	G1	
4		7,8	m	58	Adenocarcinoma	G3	T3N0M0(II A)
5		9,10	f	60	Adenocarcinoma	G3	T3NxM0(II A)
6	B	1,2	f	42	Adenocarcinoma	G1	
7		3,4	m	63	Adenocarcinoma	G2	T3N1M0(II B)
8		5,6	m	60	Adenocarcinoma	G2	
9		7,8	f	58	Adenocarcinoma	G3	
10		9,10	m	66	Adenocarcinoma	G3	T3N0Mx(II A)
11	C	1,2	f	54	Adenocarcinoma	G2	
12		3,4	f	72	Adenocarcinoma	G2	T3N1M0(II B)
13		5,6	m	41	Adenocarcinoma	G2	T3N1M1(IV)
14		7,8	m	53	Adenocarcinoma		T2N1M1(IV)
15		9,10	m	64	Mucinous adenocarcinoma		T3N0M0(II A)
16	D	1,2	m	60	Adenocarcinoma	G2	T2N0M1(IV)
17		3,4	f	75	Adenocarcinoma	G2	T2N0M0(I B)
18		5,6	f	64	Adenocarcinoma	G2	T3N1M1(IV)
19		7,8	m	64	Adenocarcinoma		T3N0M1(IV)
20		9,10	f	62	Mucinous adenocarcinoma		T3N0M0(II A)
21	E	1,2	m	62	Adenocarcinoma	G2	T3N1M0(II B)
22		3,4	m	62	Adenocarcinoma	G2	T3NxM1(IV)
23		5,6	m	58	Adenocarcinoma	G2	
24		7,8	m	72	Intraductal papillary mucinous carcinoma		
25		9,10	m	41	Neuroendocrine carcinoma		
26	F	1,2	m	62	Adenocarcinoma	G2	T3N1M0(II B)
27		3,4	f	47	Adenocarcinoma	G2	
28		5,6	m	81	Adenocarcinoma	G2~3	
29		7,8	f	64	Carcinoma		
30		9,10	f	53	Anaplastic carcinoma Papillary adenocarcinoma	G4	T3N1M1(IV)

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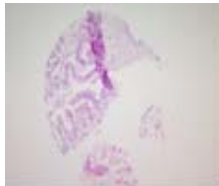
Summary of tissue spots

No	Coordina	Sex	Age	Key word	Grade	TNM	
31	G	1,2	m	44	Adenocarcinoma	G2~3	T3N1M1(IV)
32		3,4	m	55	Adenocarcinoma	G3	T3N1M1(IV)
33		5,6	m	49	Adenocarcinoma	G3	
34		7	m	51	Non-neoplastic from A1,2		
35		8	m	70	Non-neoplastic from A3,4		
36		9	m	60	Non-neoplastic from B5,6		
37		10	f	58	Non-neoplastic from B7,8		
38	H	7	m	62	Non-neoplastic from B7,8		
39		8	f	47	Non-neoplastic from F3,4		
40		9	m	81	Non-neoplastic from F5,6		
41		10	m	49	Non-neoplastic from G5,6		

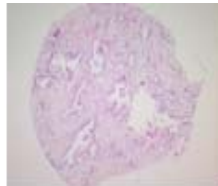
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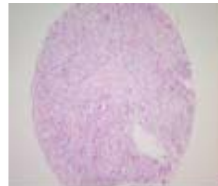
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Hematoxylin and Eosin staining



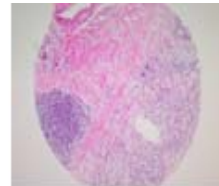
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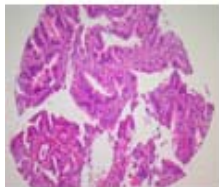
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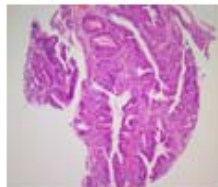
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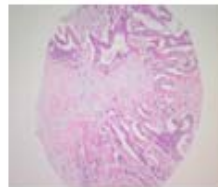
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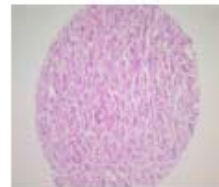
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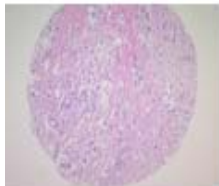
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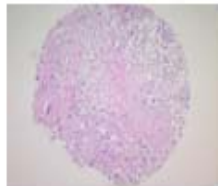
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A8



A9



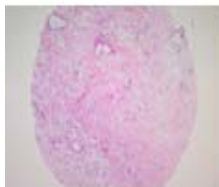
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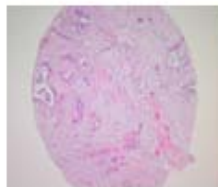
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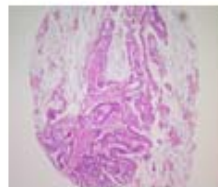
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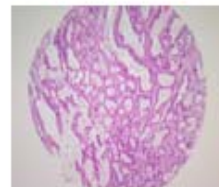
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B4



B5



B6



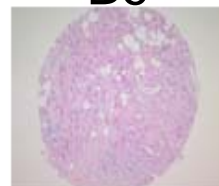
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B8



B9



B10



C1



C2



C3

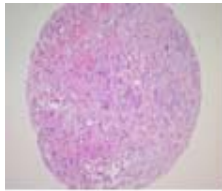


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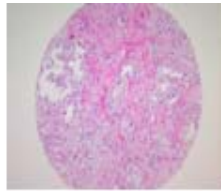
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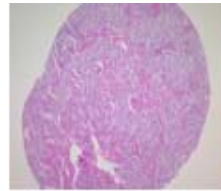
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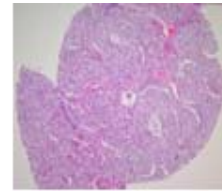
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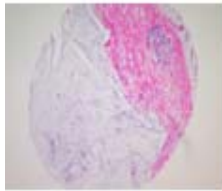
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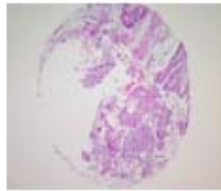
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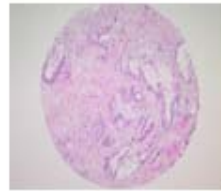
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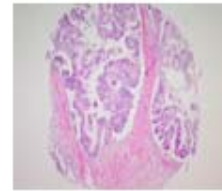
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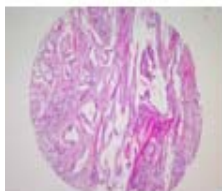
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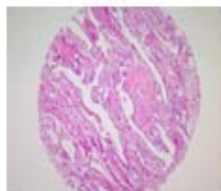
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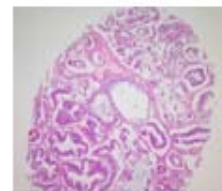
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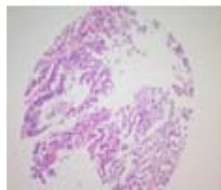
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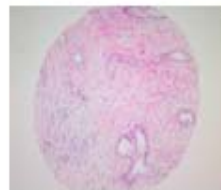
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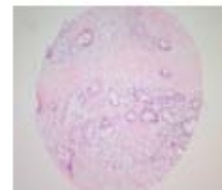
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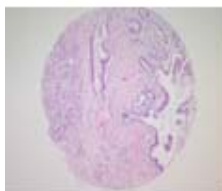
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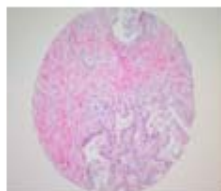
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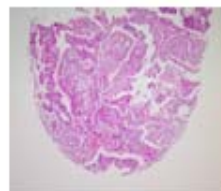
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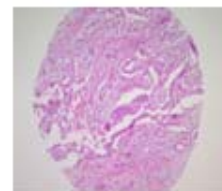
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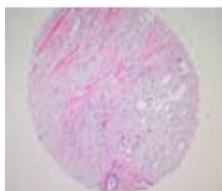
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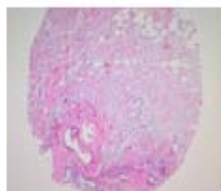
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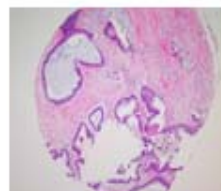
E4



E5



E6



E7

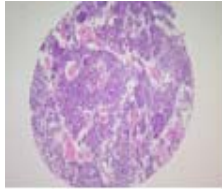


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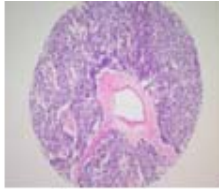
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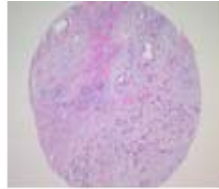
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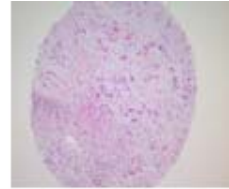
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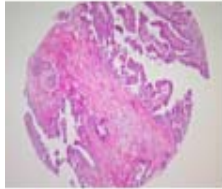
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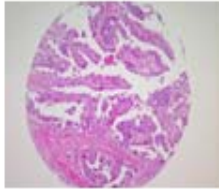
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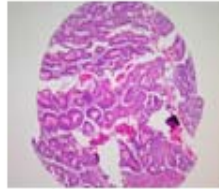
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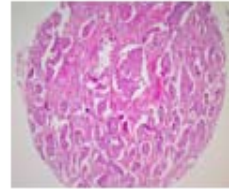
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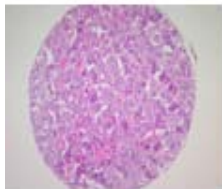
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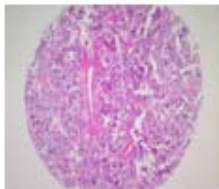
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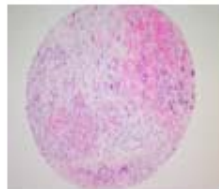
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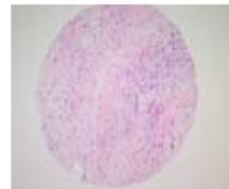
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F8



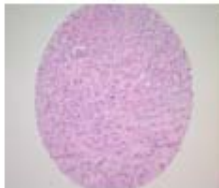
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F10



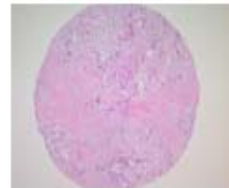
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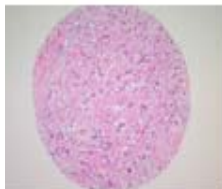
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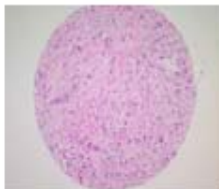
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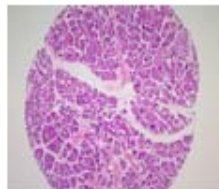
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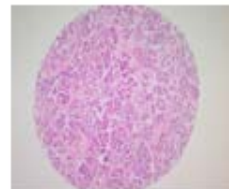
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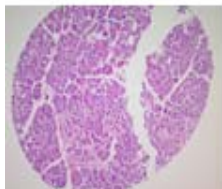
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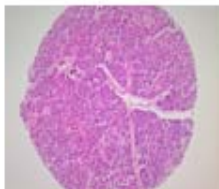
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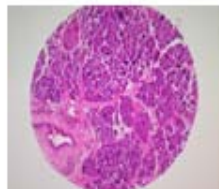
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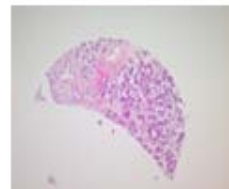
G9



G10



H7

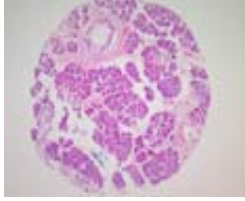


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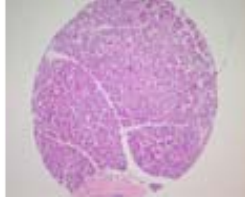
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QC sheet_LOT#122120505271
Hematoxylin and Eosin staining



H9



H10

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
1	1,2	m	51	adenocarcinoma	<p>Common bile duct, pancreas, duodenum, gallbladder with cystic duct, pylorus preserving pancreaticoduodenectomy:</p> <ul style="list-style-type: none"> 1) adenocarcinoma, moderately differentiated, in common bile duct with <ul style="list-style-type: none"> - size: approximately 1.5cm in length - superficial spreading growth and invasion to poorly developed muscle layer of common bile duct but intact pancreas - no vascular and perineural invasions - intact all resection margins including intestine, common bile duct and pancreas - no metastasis to regional lymph nodes (No.13(0/2), No.12P(0/1), No.12A(0/0), No.8(0/2), No.6(0/3)) - nonneoplastic mucosa of common bile duct showing papillary epithelial hyperplasia 2) gallbladder with cystic duct: <ul style="list-style-type: none"> - chronic cholecystitis - anomaly of cystic duct: marked elongation. 	G1	
2	3,4	m	70	adenocarcinoma	<p>Pancreas, common bile duct, duodenum, gallbladder with cystic duct, pylorus preserving pancreaticoduodenectomy:</p> <p>mucinous noncystic adenocarcinoma with stromal mucin pool formation, in pancreas with</p> <ul style="list-style-type: none"> 1) size: 4x3x2.5cm 2) infiltrative growth 3) extension to peripancreatic soft tissue 4) perineural invasion 5) pancreatic resection margin: See F2004-2465, see note 6) intact proximal and distal(duodenum), and CBD resection margin 7) lymph nodes metastasis to 1 out of 11 regional lymph nodes (peripancreatic(1/3), No.12(0/4) and duodenal mesenteric (0/4)) 8) gallbladder: <ul style="list-style-type: none"> - acute and chronic suppurative cholecystitis - free from tumor extension <p>Note: The resection margin of pancreas is intact from tumor but it is very close to main mass(safety resection margin: less than 2mm).</p>	G1	

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
3	A 5,6	m	39	adenocarcinoma	<p>Duodenum, pancreas, common bile duct and gallbladder, Whipple's operation:</p> <ol style="list-style-type: none"> 1) adenocarcinoma, well differentiated <ul style="list-style-type: none"> - arising from and confined to ampulla of Vater - with adjacent villous adenoma. 2) resection margin, duodenum: free of tumor 3) resection margin, common bile duct: free of tumor 4) resection margin, pancreas: free of tumor 5) regional lymph nodes, peripancreatic lymph nodes(0/5), pericommn bile duct lymph nodes(0/2), mesenteric lymph nodes(0/3):(0/10): free of tumor in all 10 lymph nodes 6) gallbladder: chronic nonspecific inflammation. 	G1	
4	7,8	m	58	adenocarcinoma	<p>Pancreas, common bile duct, duodenum, jejunum, and stomach, Whipple's operation: ductal adenocarcinoma, poorly differentiated, in head of pancreas with</p> <ol style="list-style-type: none"> 1) size: 2.5cm in the greater diameter 2) infiltrative growth 3) extension to duodenal wall, ampulla of Vater, common bile duct and peripancreatic soft tissue 4) frequent lymphovascular and perineural invasion 5) intact resection margins including proximal(stomach), distal(jejunum), common bile duct and pancreas. 6) no lymph node metastasis (0/23: peripancreatic(0/11), mesenteric of small intestine(0/7) and perigastric(0/4), and No.8(0/1)) 7) stomach: Chronic atrophic gastritis with extensive intestinal metaplasia 8) small intestine: No pathological diagnosis 9) multifocal enzymatic fatty necrosis in the omentum. 	G3	T3N0M0(II A)

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
5	9,10	f	60	adenocarcinoma	<p>1. Pancreas, distal pancreatectomy: ductal adenocarcinoma, moderately differentiated with</p> <ol style="list-style-type: none"> 1) size: 2x1.5x1.3cm 2) extension to peripancreatic soft tissue 3) vascular and perineural invasion 4) chronic pancreatitis with marked fibrosis, acinar atrophy and ductal hyperplasia surrounding nonneoplastic pancreas 5) intact resection margin <p>2. Spleen, splenectomy: congestion without metastasis</p> <p>3. Lymph nodes, splenic hilar: free from tumor extension(0/2).</p>	G3	T3NxM0(II A)
6	1,2	f	42	adenocarcinoma	<p>Pancreas, duodenum, common bile duct, gallbladder with cystic duct, pylorus preserving pancreaticoduodenectomy: ductal adenocarcinoma, moderately differentiated, in head of pancreas with</p> <ol style="list-style-type: none"> 1) size: 4.5x4x3.5cm 2) extension to peripancreatic soft tissue and duodenum 3) perineural and vascular invasion 4) intact resection margins including pancreas, common bile duct, proximal and distal(duodenum) 5) no metastasis to regional lymph nodes (peripancreatic (0/12), mesenteric of small intestine(0/6), No.8(0/1) and No.12(0/3)) 6) chronic pancreatitis in the surrounding tissue of pancreas 7) gallbladder with cystic duct: free from tumor extension. 	G1	
7	3,4	m	63	adenocarcinoma	<p>1. Pancreas, distal pancreatectomy: 1) ductal adenocarcinoma, moderately differentiated, extending to peripancreatic soft tissue</p> <ol style="list-style-type: none"> 2) remained pancreas, chronic pancreatitis with duct 3) resection margin, free of tumor 4) regional lymph node, peripancreatic(1/7),paraaortic (0/7),(1/14), Metastatic adenocarcinoma <p>2. Artery, splenic, atherosclerosis</p> <p>3. Adrenal gland, separately submitted as adrenal node, free of tumor</p> <p>4. Spleen, splenectomy: congestion.</p>	G2	T3N1M0(II B)

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
8	B 5,6	m	60	adenocarcinoma	<p>1. Duodenum, stomach, pancreas, common bile duct, gallbladder, whipple's operation:</p> <p>1) adenocarcinoma, moderately differentiated, limited to the ampulla of vater with</p> <ul style="list-style-type: none"> - fungating gross type. - arising from tubulovillous adenoma - a few lymphatic invasion <p>2) common bile duct: chronic nonspecific inflammation</p> <p>3) pancreas: no pathological diagnosis</p> <p>4) gallbladder: chronic nonspecific inflammation</p> <p>5) resection margin, proximal and distal: free of tumor</p> <p>6) rsection margin, common bile duct: free of tumor</p> <p>7) resection margin, pancreas: free of tumor</p> <p>2. Soft tissue, stated as vagus nerve, anterior and posterior: presence of nerve fiber</p> <p>3. Lymph nodes, No.3(0/1), No.4(0/4), No.5(0/1), No.6(0/5), No.8(0/7), No.16(0/1), unlabelled(0/4), peripancreaticoduodenal(0/5):(0/28): free of tumor.</p>	G2	
9	7,8	f	58	adenocarcinoma	<p>Pancreas, common bile duct, duodenum and gallbladder with cystic duct, pylorus preserving pancreaticoduodenectomy:</p> <p>ductal adenocarcinoma, poorly differentiated, in pancreas with</p> <ol style="list-style-type: none"> 1) size: 3.5x3x2cm 2) infiltrative growth 3) extension to peripancreatic soft tissue and common bile duct 4) frequent perineural invasion 5) involvement at pancreatic resection margin but intact intestinal and common bile duct resection margins 6) metastasis to 2 out of 43 regional lymph nodes (peripancreatic(2/23), mesentery(0/3), No.1(0/4), No.2(0/3), No.6(0/5) and No.7(0/5)) 7) nonneoplastic pancreas showing chronic pancreatitis with marked stromal fibrosis 8) duodenum, ampulla of Vater, and gallbladder with cystic duct: free from tumor extension 9) portal vein: free from tumor extension. 	G3	

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
10	9,10	m	66	adenocarcinoma	<p>Common bile duct, duodenum, pancreas, gallbladder and cystic duct, PPPD: ductal adenocarcinoma of pancreas, poorly differentiated with</p> <ol style="list-style-type: none"> 1) size: 2x1.5x1cm 2) infiltrative growth and extension to ampulla of Vater, proper muscle layer of duodenum and periapncreatic soft tissue 3) frequent perineural invasion 4) intact resection margins including proximal and distal (duodenum, pancreatic, and common bile duct) 5) no metastasis to regional lymph nodes(peripancreatic(0/1), No.8(0/2), No.12(0/4)). 6) atrophy with fatty ingrowth in pancreas 7) gallbladder: Acute and chronic cholecystitis with focal ulceration 8) small intestine, duodenum: free from tumor extension. 	G3	T3N0Mx(II A)
11	1,2	f	54	adenocarcinoma	<p>Duodenum, pancreas, common bile duct and gallbladder, Whipple's operation:</p> <ol style="list-style-type: none"> 1) adenocarcinoma, well differentiated <ul style="list-style-type: none"> - arising from ampulla - with extension to duodenal wall - with focal extension to distal common bile duct - with adenoma remnant - no lymphovascular permeation 2) resection margin, duodenum, proximal resection margin: free of tumor 3) resection margin, jejunum, distal resection margin: free of tumor 4) resection margin, pancreas: free of tumor 5) resection margin, common bile duct: free of tumor 6) gallbladder: chronic nonspecific inflammation 7) regional lymph nodes, mesenteric(0/2), pericommon bile duct(0/2), peripancreatic(0/0), No.5(0/1), No.8(0/1):(0/6): free of tumor in all 6 lymph nodes. 	G2	

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
12	3,4	f	72	adenocarcinoma	<p>Stomach, duodenum, common bile duct, spleen, gallbladder, pancreas, Whipple's operation:</p> <p>1) adenocarcinoma, moderately differentiated, arising from pancreatic duct in head portion with extension to the peripancreatic soft tissue and perisplenic soft tissue invasion showing perineural invasion</p> <p>2) resection margin, pancreatic: Duct ectasia with mucinous hyperplasia</p> <p>3) resection margins, stomach, duodenum and common bile duct: free of tumor</p> <p>4) regional lymph nodes, peripancreatic(1/1), N4(0/3), N5(0/0), N6(0/3), N10(1/1):(2/8): Metastasis in 2 out of 8 lymph nodes</p> <p>5) spleen: no pathological diagnosis</p> <p>6) "labelled as hepaticoduodenal ligament": free of tumor.</p>	G2	T3N1M0(II B)
13	5,6	m	41	adenocarcinoma	<p>Duodenum, pancreas, common bile duct, gallbladder and stomach, Whipple's operation:</p> <p>1) pancreas: Ductal adenocarcinoma, moderately differentiated with</p> <ul style="list-style-type: none"> - extension to the peripancreatic soft tissue and the wall of common bile duct - frequent venous invasion. - frequent perineural invasion. - resection margin, pancreatic, duodenal, stomach: free of tumor - resection margin, common bile duct: massive mucosal necrosis with hemorrhage without evidence of tumor extension <p>2) common bile duct: total necrosis of the mucosa with extension of adenocarcinoma to the wall</p> <p>3) duodenum: chronic nonspecific inflammation without tumor extension</p> <p>4) gallbladder: chronic nonspecific inflammation with congestion and subserosal hemorrhage</p> <p>5) lymph nodes, labelled as No.2(0/2), No.8(0/3), No.14(0/1), No.16 (3/5), omentum(0/10), regional(12/19):(15/40): metastatic carcinoma in 15 out of 40 lymph nodes.</p>	G2	T3N1M1(IV)
14	7,8	m	53	adenocarcinoma	Pancreas, distal: extension of adenocarcinoma.		T2N1M1(IV)

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
15	9,10	m	64	mucinous adenocarcinoma	<p>Duodenum, pancreas, CBD, gallbladder and stomach, whipple's operation:</p> <ol style="list-style-type: none"> 1) pancreas: Mucinous adenocarcinoma of ductal type with <ul style="list-style-type: none"> - extension to the duodenal wall(duodenal mucosa) and common bile duct wall - occasional intraductal component 2) duodenum: Brunner's gland hyperplasia 3) gallbladder: Chronic nonspecific inflammation with many Rokitansky- aschoff sinuses 4) resection margin: <ul style="list-style-type: none"> - stomach, proximal resection margin: free of tumor - duodenum, distal resection margin: free fo tumor - pancreas: free of tumor 5) regional lymph nodes, N3(0/0), N4(0/1), N5(0/0), N6(0/3), periccommon bile duct(0/4), peripancreatic(0/5), mesenteric(0/5):(0/18): free of tumor in all 18 lymph nodes. 		T3N0M0(II A)
16	1,2	m	60	adenocarcinoma	<p>Pancreas, duodenum, stomach, gallbladder, common bile duct, whipple's operation:</p> <ol style="list-style-type: none"> 1) pancreas: ductal adenocarcinoma, moderately differentiated with <ul style="list-style-type: none"> - focal invasion to common bile duct - capsule: free of tumor 2) multiple retention cysts 3) mucinous ductal hyperplasia of remaining pancreatic duct 4) chronic pancreatitis 5) resection margin, pancreas, common bile duct, stomach, duodenum: free of tumor 6) stomach: xanthoma 7) gallbladder: chronic cholecystitis with Rokitansky-Aschoff sinues 8) regional lymph nodes, peripancreatic(0/5), periccommon bile duct (0/3), mesenteric(0/5), No.3(0/2), No.4(0/4), No.5(0/1), No.6(0/1), No.12(0/2):(0/23): free of tumor in all 23 lymph nodes. 	G2	T2N0M1(IV)

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
17	3,4	f	75	adenocarcinoma	<p>1. Pancreas, common bile duct, duodenum and stomach, whipple's operation:</p> <p>1) pancreas: ductal adenocarcinoma, moderately differentiated</p> <p>2) stomach: Flat adenoma with low grade epithelial dysplasia</p> <p>3) resection margins, stomach, duodenum, common bile duct and pancreas: free of tumor</p> <p>4) bile duct proximal resection margin, separate sent: free of tumor</p> <p>5) bile duct margin, separately sent: free of tumor</p> <p>6) regional lymph node, No.3(0/2), No.4(0/5), No.5(0/2), No.6(0/3), No.8(0/5), No.12(0/2), No.13(0/1), peripancreatic(0/11):(0/31): free of tumor</p> <p>2. Gallbladder, cholecystectomy: chronic nonspecific inflammation.</p>	G2	T2N0M0(I B)
18	5,6	f	64	adenocarcinoma	<p>Liver, gallbladder, CBD, pancreas, stomach and duodenum, whipple's operation and partial hepatectomy:</p> <p>1) diffuse infiltrative adenocarcinoma, moderately differentiated, in gallbladder with</p> <ul style="list-style-type: none"> - invasion to gallbladder bed of liver, cystic duct, common bile duct and pancreas and surrounding soft tissue - frequent perineural invasion - intact resection margins including stomach(proximal) duodenum(distal) and liver - dysplastic change of CBD resection margin - metastasis to 3 out of 18 lymph nodes (peripancreatic(0/4), No.3(0/4), No.4(0/4), No.5(0/1), No.7,8(1/2), No.14(2/2) and No.12(0/1)) <p>2) liver: reactive hepatitis with congestion</p> <p>3) stomach: no pathological diagnosis.</p>	G2	T3N1M1(IV)
19	7,8	m	64	adenocarcinoma	<p>Duodenum, pancreas, common bile duct, gallbladder, whipple's operation:</p> <p>1) pancreas: papillary mucinous carcinoma, invasive with extension to peripancreatic soft tissue</p> <p>2) common bile duct and gallbladder: chronic nonspecific inflammation without invasion of carcinoma</p> <p>3) resection margin, proximal, distal and common bile duct: free of tumor</p> <p>4) lymph nodes, peripancreatic(0/4), pericholecystic(0/1), left gastric (0/4), paraaortic(0/6), site unstated(0/1), mesenteric(0/7):(0/23): free of tumor.</p>		T3N0M1(IV)

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
20	9,10	f	62	mucinous adenocarcinoma	<p>Pancreas, duodenum, common bile duct and gallbladder, whipple's operation:</p> <ol style="list-style-type: none"> 1) mucinous adenocarcinoma arising from pancreatic duct with extension to the peripancreatic soft tissue 2) common bile duct: Ulceration with reactive atypia probably associated with stent insertion 3) gallbladder: chronic nonspecific inflammation 4) resectiin margins, duodenal(proximal), jejunal(distal): free of tumor 5) resection margin, common bile duct: presence of tumor 6) resection margin, pancreatic: presence of tumor involving peritoneal resection margin 7) regional lymph nodes, mesenteric(0/4), pericommon bile duct(0/4), peripancreatic(0/5), celiac axis(0/2), LN8(0/1):(0/16): free of tumor in all 16 lymph nodes 8) specimen, labelled as "portal vein": free of tumor. 		T3N0M0(II A)
21	1,2	m	62	adenocarcinoma	<p>Pancreas, stomach, duodenum, common bile duct and gallbladder, whipple's operation:</p> <p>ductal adenocarcinoma, mucinous differentiated, in head of pancreas with</p> <ol style="list-style-type: none"> 1) size: 4x4cm 2) extension to the peripancreatic soft tissue and involvement of peripheral resection margin 3) presence of perineural invasion 4) non-neoplastic pancreas showing marked chronic pancreatitis 5) resection margins, stomach, duodenum: free of tumor 6) resection margins, common bile duct: epithelial dysplasia, low grade 7) gallbladder: Tubular adenoma of pyloric type 8) stomach: extensive atrophy with intestinal metaplasia 9) regional lymph nodes: peripancreatic(4/11), peri common bile duct(0/1), mesenteric(0/0), perigastric(0/2):(4/14): metastatic carcinoma in 4 out of 14 lymph nodes. 	G2	T3N1M0(II B)

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
22	3,4	m	62	adenocarcinoma	<p>Pancreas, CBD, duodenum and gallbladder, whipple's operation: ductal adenocarcinoma, moderately differentiated, arising in pancreatic duct with</p> <ol style="list-style-type: none"> 1) size: 1.5x1cm 2) Extension to peripancreatic soft tissue 3) frequent perineural invasion 4) perineural metastasis in pancreatic resection margin 5) low grade dysplasia in common bile duct resection margin 6) gallbladder: Rokitansky-Aschoff sinus 7) omentum: free of tumor 8) regional lymph nodes: free of tumor (0/5). 	G2	T3NxM1(IV)
23	E 5,6	m	58	adenocarcinoma	<p>Pancreas, duodenum, common bile duct and gallbladder, PPPD: 1) adenocarcinoma, moderately differentiated, in head of pancreas,probably arising from minor pancreatic duct with</p> <ul style="list-style-type: none"> - size: about 2.5cm in the greatest diameter - prominent perineural invasion - multifocally involvement at peripancreatic soft tissue and a lymph node - intact resection margins including those of common bile duct, pancreas, duodenum and jejunum - no metastasis to lymph nodes(0/7: peripancreatic(0/5), and No.1(0/1) and No.8(0/1)) <p>2) gallbladder: chronic cholecystitis without tumor <Additional report> Portal vein, biopsy: extension of the tumor to tunica adventitia.</p>	G2	

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
24	7,8	m	72	intraductal papillary mucinous carcinoma	<p>Pancreas, duodenum, common bile duct, gallbladder and cystic duct, PPPD:</p> <p>1) intraductal papillary mucinous tumor, malignant with</p> <ul style="list-style-type: none"> - size: 4x3.5x3cm - extension to peripancreatic adipose tissue - perineural invasion - chronic pancreatitis with parenchymal atrophy, and multi focal mucin pool formation - intact resection margins including duodenal, common bile duct, and peripancreatic soft tissue - no metastasis to regional lymph nodes ((0/27), greater curvature of stomach(0/4), duodenal mesentery(0/8), peripancreatic(0/12) and No.8(0/3)) <p>2) gallbladder: autolysis without tumor extension.</p>		
25	9,10	m	41	neuroendocrine carcinoma	<p>Pancreas, duodenum, common bile duct, gallbladder with cystic duct, and stomach, whipple's operation:</p> <p>1) neuroendocrine carcinoma, intermediate cell type, in pancreas with</p> <ul style="list-style-type: none"> - size: 7x5x5cm - extension to duodenum and peripancreatic soft tissue - no metastasis to regional lymph nodes (0/21:peripancreatic (0/3), pericommn bile duct(0/2), perigastric(0/9), pericolic(0/1), mesentery(0/5) and No.12(0/1)) - chronic pancreatitis <p>2) resection margins, proximal(stoamch), distal(duodenum), common bile duct, pancreas: free from tumor extension</p> <p>3) gallbladder: chronic cholecystitis without tumor metastasis</p> <p>4) stomach; no pathological diagnosis</p> <p>5) duodenum: no pathological diagnosis</p> <p>6) sigmoid colon, separately submitted: subserosal fibrosis without tumor metastasis.</p>		

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
26	1,2	m	62	adenocarcinoma	<p>1. Pancreas and soft tissue, distal pancreatectomy: adenocarcinoma, moderately differentiated, in the tail area with</p> <ol style="list-style-type: none"> 1) size: 5x4.5x3cm 2) moderately differentiated 3) diffuse infiltration to surrounding peripancreatic fatty tissue including lymph node and left adrenal gland 4) perineural invasion 5) intact pancreatic resection margin 6) no metastasis to peripancreatic lymph node(0/7) and perihilar lymph node of spleen(0/1) 7) chronic pancreatitis with parenchymal atrophy and dense fibrosis 8) ectopic spleen in the surrounding adipose tissue <p>2. Spleen: free from tumor extension.</p>	G2	T3N1M0(II B)
27	3,4	f	47	adenocarcinoma	<p>Duodenum, common bile duct, pancreas, gallbladder, modified whipple's operation:</p> <ol style="list-style-type: none"> 1) moderately differentiated adenocarcinoma of ampulla of Vater with minimal extension to the pancreatic duct opening(without extension to the common bile duct) 2) resection margins, proximal, distal and common bile duct: free of tumor 3) resection margin, pancreas: - free of tumor - acute pancreatitis 4) gallbladder: chronic cholecystitis 5) omentum: no pathological diagnosis 6) regional lymph nodes, periccommon bile duct(0/4), peripancreatic(0/0), mesenteric(0/4), paraaortic(0/7), N8(0/2), N12(0/2):(0/19): free of tumor in all 19 lymph nodes. 	G2	

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
28	5,6	m	81	adenocarcinoma	<p>Pancreas, duodenum, common bile duct and gallbladder, whipple's operation:</p> <ol style="list-style-type: none"> 1) ampullary adenocarcinoma, moderately differentiated with <ul style="list-style-type: none"> - Invasion to duodenal wall and distal common bile duct - no lymphatic invasion or perineural invasion 2) resection margins, proximal, distal and pancreas: free of tumor 3) pancreas: - multifocal mucinous ductal hyperplasia <ul style="list-style-type: none"> - chronic pancreatitis 4) gallbladder: autolysis 5) regional lymph nodes, No.3(0/2), No.4(0/6), No.5(0/5), No.6(0/4), No.8(0/3), pericommmon bile duct(0/4), peripancreatic(0/7), mesenteric(0/1), lymph node, labelled as "small bowel"(0/1): (0/33): free of tumor in all 33 lymph nodes. 	G2~3	
29	7,8	f	64	carcinoma	<p>Stomach, duodenum, common bile duct, gallbladder with cystic duct and pancreas, Whipple's operation:</p> <ol style="list-style-type: none"> 1) pancreas: Endocrine carcinoma, low grade with <ul style="list-style-type: none"> - size: 3x2.5x2.5cm - well demarcated but not encapsulated appearance (expanding growth) - trabecular histologic type - rare mitotic figure: less than 1/10HPF - angioinvasion - extension to peripancreatic soft tissue and lymph node - intact resection margins including proximal (stomach), distal(duodenum), common bile duct and pancreatic margin <ul style="list-style-type: none"> - free from tumor extension of all lymph nodes (peripancreatic(0/7), perigastric(0/6), periductal (0/1), and No.13(0/1)) 2) gallbladder: autolysis without tumor extension 3) stomach: chronic atrophic gastritis with intestinal metaplasia and no extension of the tumor 4) duodenum: free from tumor extension 5) results of immunohistochemical staining: <ul style="list-style-type: none"> - Synaptophysin, Chromogranin, S-100 protein: positive reaction - Cytokeratin, insulin: negative reaction - Glucogen: equivocal positive reaction . 		

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM
30	9,10	f	53	anaplastic carcinoma papillary adenocarcinoma	<p>1. Head of pancreas, duodenum, common bile duct, Whipple's operation:</p> <ol style="list-style-type: none"> 1) anaplastic carcinoma with <ul style="list-style-type: none"> - foci of well-differentiated papillary adenocarcinoma - extension to peripancreatic soft tissue - perineural invasion 2) chronic pancreatitis 3) resection margins, proximal and distal duodenal, common bile duct, pancreatic: free of tumor 4) gallbladder, cholecystectomy: acute and chronic nonspecific inflammation 5) lymph nodes, peripancreatic(0/7), omental(0/3), node around superior mesenteric artery(1/3), intercaval(0/12), N6(0/0), N12(0/6), N14(0/4):(1/29): metastatic carcinoma in 1 out of 29 nodes <p>2. Nerve, peripancreatic: fibrofatty tissue with nerve fibers.</p>	G4	T3N1M1(IV)
31	1,2	m	44	adenocarcinoma	<p>Pancreas, CBD, liver, gallbladder, stomach and duodenum:</p> <ol style="list-style-type: none"> 1) adenocarcinoma, moderately to poorly differentiated, in pancreas and liver with <ul style="list-style-type: none"> - size: pancreas(4x4x3.5cm) and liver(4x3.5x3.5cm) - dense fibrosis and significant necrosis - frequent lymphovascular and neural invasion - invasion to common bile duct - intact resection margins including proximal(stomach), duodenum(distal), pancreatic and hepatic <ul style="list-style-type: none"> - dysplasia on CBD resection margin - metastasis to 9 out of 26 of lymph nodes (9/26): No.3(0/0), No.4(0/4), No.6(3/13), No.8(1/4), No.12(1/1), paraaortic(1/1), peripancreatic(3/3) 2) gallbladder: focal dysplastic change 3) stomach and duodenum: no pathological diagnosis. 	G2~3	T3N1M1(IV)

A207(III): Pancreas Cancer tissues

No	Coordina	Sex	Age	Key word	Histological Diagnosis	Grade	TNM		
32	G	3,4	m	55	adenocarcinoma	<p>1. Stomach, total gastrectomy:</p> <p>1) poorly differentiated tubular adenocarcinoma mixed with signet ring cell carcinoma, ulceroinfiltrative type, with extension to the perigastric fatty tissue</p> <p>2) resection margin, proximal(esophagus) and distal(duodenum): free of tumor</p> <p>2. Pancreas, pancreatectomy:</p> <p>1) ductal adenocarcinoma, poorly differentiated with extension to peri-pancreatic soft tissue and with involvement of spleen</p> <p>2) pancreas, resection margin: free of tumor</p> <p>3. Regional lymph nodes, N3(0/4), No.4(0/8), No.6(1/7), No.8(2/3), No.11(4/9), peripancreatic node(2/4):(9/35): metastatic adenocarcinoma in 9 out of 35 lymph nodes</p> <p>4. Soft tissue, separately submitted as node N2 and N10: extension of adenocarcinoma. (no lymph node tissue is identified)</p> <p>5. Transverse colon, segmental colectomy: free of tumor.</p>	G3	T3N1M1(IV)	
33		5,6	m	49	adenocarcinoma	<p>Pancreas, common bile duct, duodenum, and gallbladder with cystic duct, pylorus preserving pancreaticoduodenectomy:</p> <p>1) infiltrative adenocarcinoma, poorly differentiated, arising in pancreatic duct with</p> <ul style="list-style-type: none"> - size: 2cm in the greatest dimension - infiltrative growth with invasion to peripancreatic soft tissue and common bile duct - perineural and microvascular invasions - intact resection margins including proximal and distal (duodenum), common bile duct, and pancreas - no metastasis to regional lymph nodes (perigastric(0/1), peripancreatic(0/8), mesenteric(0/6), and No.8(0/3)) <p>2) gallbladder with cystic duct: free from tumor extension.</p>	G3		
34		7	m	51	non-neoplastic	non-neoplastic from A1,2			
35		8	m	70	non-neoplastic	non-neoplastic from A3,4			
36		9	m	60	non-neoplastic	non-neoplastic from B5,6			
37		10	f	58	non-neoplastic	non-neoplastic from B7,8			
38		H	7	m	62	non-neoplastic	non-neoplastic from B7,8		
39			8	f	47	non-neoplastic	non-neoplastic from F3,4		
40			9	m	81	non-neoplastic	non-neoplastic from F5,6		
41			10	m	49	non-neoplastic	non-neoplastic from G5,6		