

Clinical Utility of the Contrast-Enhanced Endoscopic Ultrasound Guided Fine Needle Aspiration in the Diagnosis of Pancreatic Cyst

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Supplementary Materials

Table S1. B-mode EUS aspects according to the final diagnosis.

Cyst features	IPM N (n=30)	PK (n=9)	SCN (n=8)	Cystic Ductal adk (n=6)	MCN (n=4)	Cystic acinar cell carcinoma (n=1)	Total (n=58)
Communication with MPD	9	2	0	0	0	0	11
MPD size							
5-9 mm	4	0	1	1	0	0	6
≥10 mm	2	0	0	0	0	0	2
Mural nodules	7	0	0	5	0	1	13
Solid mass	10	2	0	6	2	1	21
Septae	20	2	8	5	3	1	31
Septae>2 mm	3	0	0	3	0	1	7

Data are expressed as numbers; IPMN- branch duct intrapapillary mucinous neoplasm, PK- pseudocyst, SCN- serous cystic neoplasms, MCN- mucinous cystic neoplasms, MPD- main pancreatic duct

Table S2. Arterial enhancement and venous wash-out on the wall, septa and solid component by type of pancreatic cysts.

CH-EUS features	SCN (n=8)	PK (n=9)	IPMN (n=30)	MCN (n=4)	Cystic acinar cell carcinoma (n=1)	Cystic ductal adk (n=6)
<i>Wall</i>						
Arterial enhancement						
yes	4	1	30	4	1	6
no	4	8	0	0	0	0
Venous wash-out						
fast	1	0	13	3	1	3
slow	3	3	17	1	0	0
<i>Septae</i>						
Arterial enhancement						
yes	7	0	12	3	1	3
no	0	0	0	0	0	0
Venous wash-out						
fast	2	0	6	2	1	1
slow	5	0	6	1	0	2
<i>Solid component</i>	0	2	10	2	1	6
<i>Mural nodule</i>	0	0	7	0	1	5
Arterial enhancement						
hyper	0	0	6	0	1	3
hypo	0	0	0	0	0	2
iso	0	0	1	0	0	
Venous wash-out						
fast	0	0	4	0	1	3
slow	0	0	3	0	0	2

Data are expressed as numbers; SCN- serous cystic neoplasms, PK- pseudocyst, IPMN- branch duct intrapapillary mucinous neoplasm, MCN- mucinous cystic neoplasms, adk- adenocarcinoma, MPD- main pancreatic duct

Table S3. Contrast-EUS-FNA cytology assessment of specific pancreatic cysts.

Final diagnosis of cysts assessed With CH- EUS-FNA	SCN (n=7)	PK (n=7)	IPMN (n=23)	MCN (n=4)	Cystic acinar cell carcinoma (n=1)	Cystic ductal adk (n=6)
Fluid + mural nodules cytology (n=48)						
Conclusive/inconclusive (n=41/7)	7/0	7/0	19/4	2/2	1/0	5/1
Malignant/non-malignant (16/25)	0/7	0/7	9/9	2/2	1/0	5/0
High dysplasia / carcinoma	-	-	9/19	1/2	1/0	0/5
Low / moderate dysplasia	-	-	4/19	1/2	-	-
No dysplasia	0/7	0/7	6/19	-	-	-
Mural nodule cytology (n=13)						
Conclusive/inconclusive (13/0)	0/0	0/0	7/0	0/0	1/0	5/0
Malignant/non-malignant (10/3)	0/0	0/0	4/3	0/0	1/0	5/0
High dysplasia / carcinoma (n=10)	-	-	4	-	1	5
Low / moderate dysplasia (n=3)	-	-	3	0	-	0

SCN- serous cystic neoplasms, PK- pseudocyst, IPMN- branch duct intrapapillary mucinous neoplasm, MCN- mucinous cystic neoplasms, adk- adenocarcinoma