

Supplementary Table S1. Summary of national guidelines.

| | Type | Surgical indication | EUS FNA indication |
|-----------|------|--|---|
| 2015 AGA | | Solid component and dilated pancreatic duct and/or concerning features on EUS FNA (solid component and a dilated pancreatic duct) | At least 2 high risk features Size ≥ 3 cm Dilated main pancreatic duct Presence of an solid component |
| 2016 JAMA | | Symptomatic MD-IPMN or Mixed type Cysts with High risk features MPD > 10 mm Solid component Mural nodule High risk features on EUS FNA Positive cytology Mural nodule Thickened cyst wall MPD 5-9 mm Cyst ≥ 3 cm | No High risk feature, but ≥ 3 cm |

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|--|----------|--|----------------|
| 2017 Revisions of international consensus Fukuoka, | MD BD | MPD >10 mm Jaundice Mural nodule | |
| | BD | <p>WF with concerning features on EUS FNA</p> <p>WF</p> <ul style="list-style-type: none"> Pancreatitis Cyst ≥ 3 cm Enhancing mural nodule < 5mm Thickened/enhancing cyst walls MPD 5-9 mm Abrupt change in pancreatic duct Lymphadenopathy Increased CA19-9 Cyst growth rate ≥ 5 mm/2years <p>EUS FNA</p> <p>Cytology</p> | Presence of WF |

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|--------------|----|--|---|
| | | <p>Mural nodule $\geq 5\text{mm}$</p> <p>MPD involvement</p> <p>anyone of thickened walls, intraductal mucin or mural nodules</p> | |
| 2018 EEBGPCN | MD | Recommendation for the surgery | |
| | BD | <p>Absolute</p> <p>Positive cytology</p> <p>Solid mass</p> <p>Jaundice</p> <p>Enhancing mural nodule $\geq 5\text{ mm}$</p> <p>MPD $\geq 10\text{ mm}$</p> <p>Relative</p> <p>Cyst growth rate $\geq 5\text{ mm}/1\text{years}$</p> <p>Increased CA19-9 ($\geq 37\text{U/ml}$)</p> <p>MPD 5-9 mm</p> <p>Cyst $\geq 4\text{ cm}$</p> <p>New onset DM</p> <p>Acute pancreatitis</p> | <p>Either clinical or radiological features of pancreas cystic neoplasm, in cases of unclear diagnosis based on cross-sectional imaging</p> |

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| | | Enhancing mural nodule <5 mm | |
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