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Summary

COMPARATIVE ANALYSIS OF GLUCOSE AND CEA LEVELS FOR THE DIAGNOSIS OF PANCREATIC CYSTS: INSIGHTS FROM EUS-FNA

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Pancreas

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A retrospective study of 31 patients found that cyst fluid glucose levels demonstrated superior diagnostic performance compared to CEA levels for identifying mucinous pancreatic cysts via EUS-FNA.

KEY POINTS

- Glucose levels below 2.7 mmol/l showed 91.7% sensitivity, 89.5% specificity, and 90.3% accuracy for diagnosing mucinous cysts, compared to CEA levels above 192 ng/ml which showed 81.8% sensitivity, 85.0% specificity, and 83.9% accuracy
- Of 31 patients who underwent EUS-FNA between September 2020 and March 2023, 12 (38.7%) had mucinous cysts and 19 (61.2%) had non-mucinous cysts, confirmed by surgical pathology or EUS-FNB
- Mucinous cysts included 6 mucinous cystic neoplasms and 6 intraductal papillary mucinous neoplasms, while non-mucinous cysts included 9 serous cystic neoplasms, 8 pseudocysts, 1 solid pseudopapillary neoplasm, and 1 lymphoepithelial cyst
- The authors conclude their findings support using EUS-FNA with glucose level analysis and note that further studies are needed to validate these results and explore other biomarkers

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