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Summary

EXPLORING A NOVEL COMPOSITE METHOD USING NON-CONTRAST EUS ENHANCED MICROVASCULAR IMAGING AND CYST FLUID ANALYSIS TO DIFFERENTIATE PANCREATIC CYSTIC LESIONS

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Pancreas

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A composite method combining high-definition microvasculature imaging with cyst fluid biochemistry demonstrated superior diagnostic accuracy compared to fluid analysis alone for differentiating pancreatic cystic lesions in a retrospective study of 110 patients.

KEY POINTS

- The composite method using EUS with HFlow imaging plus cyst fluid analysis achieved 97.3% sensitivity, 77.1% specificity, and 73.2% accuracy for diagnosing pancreatic cystic lesions
- Cyst fluid biochemistry alone yielded lower performance with 76.7% sensitivity, 56.7% specificity, and 56% accuracy
- The study analyzed 110 consecutive patients (65 mucinous, 41 non-mucinous) from two Italian hospitals using surgical resection as the gold standard
- The composite approach can be integrated into a holistic evaluation combining cyst morphology, vascularity, fluid analysis, and endoscopist expertise

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