DIFFERENTIAL DIAGNOSIS OF SOLID PANCREATIC TUMOURS BY EUS-GUIDED DETECTIVE FLOW IMAGING (DFI): AN ACCURATE ADVANCED IMAGING TECHNIQUE

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EUS-guided detective flow imaging achieved 97.7% agreement with contrast-enhanced harmonic EUS in characterizing vascular patterns of solid pancreatic tumours without requiring contrast agents in a prospective study of 44 patients.

KEY POINTS

- EUS-DFI and CEH-EUS demonstrated 97.7% agreement in characterizing the vascular pattern of solid pancreatic tumours across 44 patients with mean tumour size 26.1 ± 15.7 mm.
- All 24 adenocarcinomas were hypovascular with both methods, while 12 of 13 neuroendocrine tumours (90%) were hypervascular on EUS-DFI compared to all 13 on CEH-EUS.
- Inflammatory masses and autoimmune pancreatitis appeared isovascular, pancreatic necrosis avascular, and accessory spleen and lipoma hypervascular with both imaging modalities.
- EUS-DFI is a recent technology that evaluates microvascularization and low-velocity blood flow without contrast agents, potentially offering a non-contrast alternative for characterizing solid pancreatic lesions.
- This single-centre prospective observational study used histology after EUS-guided biopsy as the diagnostic reference standard.

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