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Summary

UTILIZATION OF HANDCRAFTED SOFTWARE FOR QUANTITATIVE CONTRAST-ENHANCED HARMONIC EUS-FOCUSING ON DIFFERENTIAL DIAGNOSIS OF PANCREATIC TUMORS

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Pancreas

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Quantitative analysis of contrast-enhanced harmonic endoscopic ultrasound using time-intensity curves distinguished pancreatic ductal adenocarcinoma from other pancreatic tumors based on mean peak intensity in a small pilot study.

KEY POINTS

- In 17 videos from patients with pancreatic tumors (9 PDAC, 6 PNET, 2 AIP), mean peak intensity was significantly lower in PDAC compared to non-PDAC tumors (37.88 vs 63.12 dB, p=0.031).
- Handcrafted software was developed to quantify CEH-EUS images through time-intensity curve analysis, using speckle tracking and automated extraction of intensity parameters from regions of interest.
- No significant differences were found among PDAC, PNET, and AIP in time to peak, in-slope, or standard deviation of pixel values within the region of interest.
- The authors conclude that a study with larger sample size is needed for further application of this quantitative approach to differential diagnosis of pancreatic tumors.

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