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Summary

REAL-LIFE CLINICAL VALIDATION OF AI-ASSISTED EVALUATION OF PANCREATIC SOLID LESIONS IN ENDOSCOPIC ULTRASOUND: A TRANSCONTINENTAL MULTICENTRIC STUDY

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Surgery | Pancreas | Mechanisms & Personalised Medicine | Digestive Oncology

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Multicenter prospective validation across 16 centers and four continents demonstrates that an AI model detects and characterizes pancreatic solid lesions on EUS with 96.9% sensitivity for pancreatic ductal adenocarcinoma and 80.2% diagnostic yield.

KEY POINTS

- The AI model achieved 96.9% sensitivity for PDAC detection and 80.2% diagnostic yield across 354 EUS exams from 16 centers in the United States, Spain, Brazil, Australia, Uruguay, and the United Kingdom.
- At the frame level, the model detected pancreatic solid lesions with 81.8% accuracy and mean intersection-over-union of 0.54 against expert annotations.
- The model performs both detection and differentiation of lesions, benchmarked against histopathology, and is interoperable across different EUS device platforms.
- This represents the first real-life multicentric validation of an AI model for both detection and characterization of pancreatic solid lesions, confirming consistent performance across diverse clinical and demographic settings.
- The study supports AI-assisted EUS as a tool with potential to identify smaller, earlier-stage lesions and improve PDAC detection and prognosis.

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