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Advanced diagnostics for pancreatic cysts: Confocal endomicroscopy and molecular analysis

Durkin C *et al.* Advanced diagnostics for pancreatic cysts

Claire Durkin, Somashekar G Krishna

Abstract

Technological advances and the widespread use of medical imaging have led to an increase in the identification of pancreatic cysts with a reported incidence of 1.2%-19.6% in all patients who undergo cross-sectional imaging. Current methods for the diagnosis and risk-stratification of pancreatic cysts are suboptimal, resulting in both unnecessary surgical resection and overlooked cases of neoplasia. Accurate diagnosis is crucial for guiding how a pancreatic cyst is managed, whether with surveillance for low-risk lesions or surgical resection for high-risk lesions. Early detection and intervention also represent the opportunity to resect pre-malignant and malignant lesions, preventing their progression to more severe disease. <sup>1</sup> This review aims to summarize the current literature on confocal

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EUS-guided needle-based **confocal** laser **endomicroscopy** (nCLE) and **pancreatic cyst** fluid **molecular** markers are promising new **diagnostic** modalities to aid in **diagnosis** and management of PCLs. Imaging biomarkers for the evaluation of **pancreatic** cystic lesions

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## The clinical evaluation of needle-based confocal laser ...

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Background/aim:**Pancreatic** cystic lesions are increasingly diagnosed from cross-sectional imaging done for other indications. The challenge lies in the ability to correctly identify the high-risk individuals for resection surgery, which carries high morbidity and mortality. Unfortunately, present **diagnostic** techniques are suboptimal. Needle-based **confocal** laser **endomicroscopy** (nCLE) has been ...

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