

## EUS-GUIDED CLE INCREASES ACCURACY OF DIFFERENTIATION OF PCLs

■ Krishna, S.G. (The Ohio State University), et al. ■ Clin Gastroenterol Hepatol, 2019 ■

**Objective:** To compare the accuracy of EUS with nCLE in differentiating mucinous from non-mucinous PCLs with that of measurement of CEA and cytology analysis

**Study Design:**



144 patients



Single-center, prospective study



CEA and cytology accuracy compared to EUS-nCLE

**Results:**

**CEA & cytology:**  
**71% accuracy**

to identify mucinous PCLs  
(74% sensitivity, 61% specificity)

**EUS-nCLE:**  
**97% accuracy**

to identify mucinous PCLs  
(98% sensitivity, 94% specificity)

nCLE was more accurate in **classifying mucinous vs. nonmucinous cysts** than the standard method ( $P < .001$ )

**Conclusion:** "Analysis of cysts by nCLE identified mucinous cysts with greater accuracy than measurement of CEA and cytology analysis. EUS with nCLE can be used to differentiate mucinous from nonmucinous PCLs."



## IMPACT OF NCLE ON THE THERAPEUTIC MANAGEMENT OF SINGLE PCLs

■ Palazzo, M. (Hôpital Beaujon, Clichy, France), et al. ■ Surgical Endoscopy, 2019 ■

**Objective:** To evaluate the impact of needle-based Confocal Laser Endomicroscopy (nCLE) on the therapeutic management of patients with single PCLs

**Study Design:**



206 patients



Retrospective and comparative study



5 pancreatic disease experts reviewing

**Results:**

Adding nCLE to EUS-FNA, led to:

**24% improvement**

rate of full agreement among the 5 experts (from 30 to 54%)

**28% change**

in therapeutic management

**35% decrease**

surveillance rate of benign SCAs (fell from 40 to 5%)

**Conclusion:** "Adding nCLE to EUS-FNA significantly improves the reliability both in diagnosis and therapeutic management among experts in pancreatic cystic lesions. These results support the recognition of nCLE as a key tool of the standard of care for such clinical situations."



## IMPACT OF EUS-GUIDED MFB SAMPLING AND NCLE ON THE DIAGNOSTIC YIELD AND CLINICAL MANAGEMENT OF PANCREATIC CYSTIC LESIONS

■ Cheesman, A.R. (Mount Sinai, NY), et al. ■ Gastrointestinal Endoscopy, 2020 ■

**Objective:** To compare diagnostic outcomes and changes in clinical management resulting from microforceps biopsy sampling (MFB) and nCLE use in PCLs

**Study Design:**



44 patients



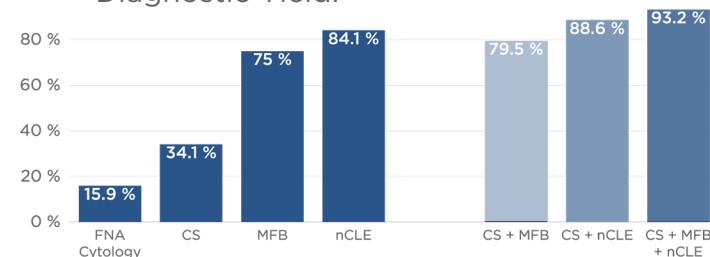
Single-center, retrospective study



Outcomes compared to Composite Standard\*

**Results:**

Diagnostic Yield:



The combined use of nCLE and MFB led to an overall **diagnostic yield of 93.2%** and a **change in clinical management in 52.3%** of cases, vs. CS alone.

\*CS (Composite Standard): obtained by combining clinical, morphological, cyst fluid cytology, and chemical analysis

**Conclusion:** In the evaluation of PCLs, the use of MFB and nCLE led to significant improvements in specific diagnosis, which in turn has a major impact on clinical management.

