

# American Society for Gastrointestinal Endoscopy (ASGE) guideline on the role of endoscopy in the diagnosis of malignancy in biliary strictures of undetermined etiology - 2023 Summary by Smit Deliwala, MD



1. Indeterminate biliary strictures historically have been defined as a stricture in which a prior ERCP had inconclusive cytology results 2. This guideline used the term undetermined biliary strictures to include patients undergoing their first ERCP without a prior negative brush cytology

# **Recommendation 1**

Fluoroscopic-guided biopsy sampling + brush cytology > brush cytology alone

- Review all cross-sectional imaging
- Discuss in a multidisciplinary committee

#### **Outcomes**

Incremental yield, lower miss rate, higher sensitivity, and overall low adverse event rate

# **Recommendation 2**

Cholangioscopic-guided biopsy sampling in:

- Nondistal strictures with a high probability of drainage of a liver segment OR
- Previous nondiagnostic ERCP without cholangioscopy AND
- Centers with clinical expertise and easy access to the equipment
- Discuss with a dedicated GI pathologist
- Forceps control in CBD under fluoroscopy
- Not optimal for distal strictures

### **Outcomes**

Incremental benefit, lower AE, and cost-effective

- Benign differential PSC, IgG4, fibrotic, CP
- Benign can mimic malignant obtain tissue
- Malignancy risk of stricture on imaging 55%
- Endoscopic > Percutaneous (risk of seeding)
- Diagnosis often requires multiple procedures



# Pancreati EUS

## Tissue acquisition

cytology



Intraductal biopsy sampling



EUS+ FNA/FNB



Cholangioscopy



# **Recommendation 3**

## Add EUS to ERCP if:

- Prior ERCP(s) were nondiagnostic,
- Distal biliary stricture, or
- Lymphadenopathy/metastasis within reach on imaging
- Upfront EUS + ERCP in the same session
- EUS guided FNA/FNB for hilar cholangiocarcinoma = risk of seeding (do NOT sample biliary mass itself)

## Outcomes

Incremental yield of at least 27% higher sensitivity, no difference in adverse events, and cost-effectiveness

Fujii-Lau LL, Thosani NC, Al-Haddad M, et al. American Society for Gastrointestinal Endoscopy guideline on the role of endoscopy in the diagnosis of malignancy in biliary strictures of undetermined etiology: summary and recommendations. Gastrointest Endosc. 2023;98(5):685-693. doi:10.1016/j.gie.2023.06.005a

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Domínguez-Muñoz E, Veloso-Carmo J, Martín-Presas F, Lariño-Noia J, Abdulkader I, Iglesias-García J. A rare cause of obstructive jaundice: diagnosis by EUS and single-operator per-oral cholangioscopy. VideoGIE. 2017;4(8):375-378. 2017 Dec 26

#### Abbreviations

AE – Adverse events CBD - Common bile duct

CP - Chronic pancreatitis ERCP - Endoscopic retrograde

cholangiopancreatography EUS - Endoscopic ultrasound

FNA - Fine needle aspiration

FNB - Fine needle biopsy IgG4 - Immunoglobulin

subclass type 4 PSC - Primary sclerosing