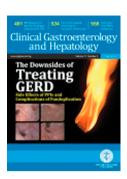
# **Accepted Manuscript**

Mutation Profile and Fluorescence in Situ Hybridization Analyses Increase Detection of Malignancies in Biliary Strictures

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#### ACCEPTED MANUSCRIPT

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Study concept and design: TAG, SAJ, SDF

Acquisition of Data: All authors

Drafting of the article: TAG, DV, SAJ, NT, SDF

Critical revision for important intellectual content: All authors

Final approval of the article: All authors

#### Conflict of interest/funding:

Interpace Diagnostic Corporation provided research grant support to Columbia University Medical Center.

SAJ, MB, NT, SDF are employees of Interpace Diagnostics Corporation.

TAG, DV, VG, CK, AS, JMP, FG, TP, AK have no conflicts of interest to declare.

#### **Abbreviations:**

ERCP, endoscopic retrograde cholangiopancreatography; FISH, fluorescence in situ hybridization; MP, DNA mutation profiling; LOH, loss of heterozygosity; PPV, positive predictive value; NPV, negative predictive value; PSC, Primary sclerosing cholangitis; CCA, Cholangiocarcinoma

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