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Summary

# ARTIFICIAL INTELLIGENCE FOR PROCEDURAL GUIDANCE IN ERCP: A VIDEO DEMONSTRATION STUDY

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**A novel AI-assisted guidance system integrating real-time endoscopic and fluoroscopic image analysis was demonstrated in three cases to guide novice operators during selective biliary cannulation in ERCP.**

## KEY POINTS

- The system displays a thin yellow line indicating the papillary axis and a thicker orange-pink line representing the suggested cannulation path on the endoscopic view in real time
- In the fluoroscopic view, the system analyzes duodenoscope configuration including shaft course, luminal curvature, and bending segment angle to reflect procedural compliance
- During cannulation attempts in all three cases, the system generated continuously updated real-time overlays combining papillary axis recognition with scope configuration assessment
- The endoscopic module provided visual guidance for alignment with the presumed biliary direction while the fluoroscopic module supplemented information on scope configuration and distal bending
- Further prospective evaluation is needed to evaluate impact on cannulation success rates, procedure time, and training outcomes

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