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Summary

EVALUATING AN INNOVATIVE VIDEO-BASED AI TOOL FOR AUTOMATED MEASUREMENT OF PROCEDURE DURATION, PHOTO DOCUMENTATION, AND ANATOMIC LANDMARK LABELING DURING UPPER ENDOSCOPIES IN A LARGE HEALTHCARE SYSTEM

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Oesophagus

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An AI platform measuring upper endoscopy procedure time and landmark documentation in 21,989 procedures revealed median procedure times of 3.18 minutes and extremely low landmark labeling rates that improved when the platform provided automated labeling suggestions.

KEY POINTS

- The validated AI platform (98% accuracy) automatically measured total procedure time and documented photo snapshots of seven anatomical landmarks in upper endoscopies performed on patients 45 years and older at a 20-unit healthcare organization in 2024.
- Median total procedure time was 3.18 minutes (IQR 2.18-4.25), described as considerably lower than recommended durations.
- Without platform labeling suggestions, endoscopists failed to label any landmarks in 25% of procedures with a median of 2 landmarks labeled (IQR 0-3).
- When the platform provided labeling suggestions, the rate of procedures with no labeled landmarks dropped significantly to 12% ($p<0.001$) and the median number of landmarks labeled increased to 3 (IQR 1-4, $p<0.001$).
- The findings indicate critical gaps in quality measure reporting for upper endoscopy and suggest AI-based documentation may help identify and address documentation deficiencies in endoscopy quality assurance.

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