

PROSPECTIVE STUDY ON AI-ASSISTED WITHDRAWAL TIME CALCULATION IN COLONOSCOPY

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Poster

Colorectal

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A prospective blinded study of 126 colonoscopies found that a novel AI system estimated withdrawal time more accurately than physician assessment when compared to manual frame-by-frame video annotation as the gold standard.

KEY POINTS

- The AI system achieved a mean absolute error of 2.17 minutes for withdrawal time estimation compared to 4.23 minutes for physician assessments ($p < 0.01$).
- Manual frame-by-frame video annotation served as the gold standard reference in this examiner-blinded evaluation conducted from December 2023 to March 2024.
- The AI-generated image reports achieved 97% satisfaction with timeline representation and 81% overall satisfaction among four independent endoscopist reviewers.
- The authors conclude the system has potential to improve efficiency and precision in withdrawal time calculation and represents a step toward integrating AI-driven solutions for optimizing colonoscopy quality metrics.

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