

REAL-TIME COMPUTER-AIDED POLYP AND ADENOMA DETECTION DURING SCREENING COLONOSCOPY IN EXPERT AND NON-EXPERT ENDOSCOPISTS: A SINGLE CENTER STUDY

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Poster

Colorectal

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A prospective study of 115 patients compared standard versus AI-assisted colonoscopy, finding that AI increased adenoma detection rate from 16.5% to 18.2% overall, with the greatest benefit observed in junior endoscopists.

KEY POINTS

- AI-assisted colonoscopy increased overall adenoma detection rate from 16.5% to 18.2% and polyp detection rate from 50.4% to 60% when used as a secondary pass after standard colonoscopy.
- Junior endoscopists showed adenoma detection rate improvement from 10.8% to 16.2% with AI assistance, while senior endoscopists showed no change (remained at 19.2%).
- The AI system demonstrated sensitivity ranging from 56.25% in the rectum to 78.26% in the ascending colon, but had high false positive rates resulting in low specificity (8.42-49.49%) and positive predictive value (9.89-19.78%).
- The polyp miss rate was 43.13% and adenoma miss rate was 5.19% when comparing standard colonoscopy to the combined standard plus AI-assisted approach.
- This real-world effectiveness study may interest gastroenterologists evaluating AI tools for adenoma detection, particularly those training junior endoscopists.

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