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Summary

VALIDATION OF AI-BASED BOWEL PREPARATION ASSESSMENT IN SCREENING COLONOSCOPY

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Colorectal

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A prospective study of 393 patients validates an AI-based bowel preparation scoring system (e-BBPS) that matches expert assessment and identifies a threshold to guide repeat colonoscopy decisions.

KEY POINTS

- Patients with e-BBPS scores above 3 had significantly higher miss rates for adenomas and polyps compared to those with scores of 3 or below, supporting a threshold where scores above 3 require repeat bowel preparation.
- Agreement between AI scoring (e-BBPS), expert endoscopist ratings, and clinical BBPS scoring was high (Cohen's kappa 0.78 to 0.83), while general endoscopists showed only low to moderate agreement with other raters.
- In the second colonoscopy pass, patients in the qualified-AI group (adequate preparation) had significantly lower adenoma and polyp detection rates than the unqualified-AI group, indicating fewer missed lesions in adequately prepared patients.
- The study was conducted prospectively at a single center in China from October 2021 to November 2022, with patients undergoing two colonoscopies and independent video review by five endoscopist raters.
- The findings support implementation of fully automated bowel preparation assessment systems to improve objectivity and standardize screening colonoscopy practice.

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