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Summary

EFFECTIVENESS OF ARTIFICIAL INTELLIGENCE FOR COLONOSCOPY ON ADENOMA AND POLYP MISS RATE: A META-ANALYSIS OF TANDEM RCTS

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Colorectal

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Meta-analysis of 4 randomized controlled trials (1166 patients) demonstrates that AI-assisted colonoscopy with computer-aided polyp detection significantly reduces adenoma and polyp miss rates compared to white light colonoscopy in tandem-design studies.

KEY POINTS

- Pooled adenoma miss rate was significantly lower with CAD-first versus white light-first colonoscopy (15.5% versus 35.0%; RR 0.45, 95% CI 0.35-0.58, P<0.001).
- Polyp miss rate was also significantly lower with CAD-first versus white light-first colonoscopy (16.0% versus 38.1%; RR 0.43, 95% CI 0.30-0.61, P<0.001).
- No significant difference was observed in advanced adenoma miss rate (8.7% versus 15.6%, P=0.71) or sessile serrated lesion miss rate (11.6% versus 40.3%, P=0.13), though the authors note these findings require confirmation in larger studies.
- The authors conclude that CADe has potential implications for reducing interval colorectal cancer incidence, though this represents their interpretation rather than a direct study outcome.

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