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Summary

BOWEL PREPARATION QUALITY AND COMPUTER-AIDED DETECTION OF ADENOMAS DURING COLONOSCOPY

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Colorectal

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Computer-aided detection systems improve adenoma detection rate during colonoscopy in patients with adequate bowel preparation, regardless of whether preparation quality is good or excellent.

KEY POINTS

- In a pooled analysis of 2103 patients from three randomized controlled trials, CADe increased adenoma detection rate by 8.4% in patients with good preparation (BBPS 6-7) and by 10.6% in those with excellent preparation (BBPS 8-9), with no significant interaction between preparation quality levels (interaction p = 0.612).
- Adenomas per colonoscopy increased by 0.28 in the good preparation group and by 0.20 in the excellent preparation group, with no significant interaction observed (interaction p = 0.261).
- Similar trends were observed when analysis was restricted to the right colon or to diminutive adenomas.
- The study included only patients with adequate bowel preparation defined as Boston Bowel Preparation Scale greater than 2 in each colonic segment, with 43.1% having good preparation and 56.9% having excellent preparation.

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