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Summary

(IIDEAS) INTELLIGENT-C ENDOSCOPY MODULE FOR REAL-TIME DETECTION OF COLONIC LESIONS - A PROSPECTIVE, NON - RANDOMIZED, SINGLE-CENTRE STUDY (NCT 05784935)

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Colorectal

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A prospective single-center study evaluated a real-time AI model for colorectal polyp detection during 200 colonoscopies, finding that the AI detected all 81 lesions while endoscopists missed 20 lesions (24.7% miss rate).

KEY POINTS

- In 200 colonoscopies performed in March 2023, 81 lesions were detected and removed from 42 subjects, with the AI system identifying 100% of lesions compared to 75.3% detected by endoscopists.
- Endoscopists missed 20 of 81 lesions, including 4 of 27 neoplastic lesions (14.8% miss rate) and 15 of 49 non-neoplastic lesions (30.6% miss rate).
- The transverse colon had the highest miss rate, with 5 of 20 missed lesions (38.5% of all missed lesions) located in this section.
- Power analysis estimated the AI system's sensitivity at above 95% with an alpha of 0.05 and power of 80%.
- The authors conclude that computer-aided diagnostic systems appear to perform better than endoscopy alone for polyp detection and may be useful in community practice.

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