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Summary

DIAGNOSTIC ACCURACY OF COMPUTER AIDED DETECTION (CADE) ASSISTED READING VERSUS CLINICIAN READING FOR POLYP DETECTION IN COLON CAPSULE ENDOSCOPY: A MULTICENTER PROSPECTIVE STUDY

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Colorectal

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Multi-centre study of 673 patients demonstrates that AI-assisted colon capsule endoscopy reading achieves superior diagnostic accuracy for polyp detection compared to standard reading while reducing reading time 5.4-fold.

KEY POINTS

- AI-assisted reading showed diagnostic accuracy of 0.96 (95% CI: 0.95–0.98) for detecting polyps requiring follow-up procedures, compared to 0.91 (95% CI: 0.89–0.93) for standard reading ($p<0.0001$).
- Per-patient diagnostic yield for polyp detection was 70.6% with AI-assisted reading versus 63.6% with standard reading, demonstrating both non-inferiority and superiority (both $p<0.001$).
- Mean reading time was reduced from 47.3 minutes for standard reading to 8.7 minutes for AI-assisted reading, a 5.4-fold reduction.
- The CESCAIL study enrolled 720 participants across 14 UK centres between November 2021 and September 2024, with 673 included in final analysis; capsule excretion rate before battery depletion was 77.1%.
- Study evaluated patients referred under urgent cancer pathway or for post-polypectomy surveillance using PillCam COLON 2 capsules analysed with AiSPEED AI system.

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