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Summary

CLINICAL VALIDATION OF POLYDEEP A COMPUTER-AIDED DIAGNOSIS SYSTEM (CADE/X)

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Colorectal

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The Polydeep Advance 1 prospective trial compared the AI system Polydeep with experienced endoscopists for colorectal polyp detection and characterisation in 205 colonoscopy patients.

KEY POINTS

- Polydeep demonstrated 91.5% sensitivity for polyp detection compared to 94.1% for endoscopists, with similar positive predictive values (89.7% vs 89.4%) but low specificity for both (14.3% vs 9.5%).
- For adenoma detection, Polydeep achieved 92.6% sensitivity versus 94.4% for endoscopists, with comparable positive predictive values around 61% and negative predictive values of 51.4% versus 45.8%.
- Both Polydeep and endoscopists achieved 98.6% sensitivity for advanced lesion detection.
- For neoplasia characterisation, Polydeep showed 82.6% sensitivity and 31.1% specificity, while the endoscopists' NICE II classification achieved 76.5% sensitivity and 61.8% specificity.
- The study enrolled patients with positive fecal immunochemical tests or undergoing surveillance after prior adenomas, and the authors state results will be confirmed in ongoing multicentre trials.

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