

OPTICAL DIAGNOSIS IN COLONOSCOPY: MORE TO IT THAN MEETS THE AI

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Poster

Colorectal

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A multi-centre prospective study comparing CADx, expert endoscopists, and trainee endoscopists in characterising 139 colonic polyps found expert endoscopists achieved the highest sensitivity for polyp characterisation.

KEY POINTS

- Expert endoscopists achieved 91.67% sensitivity in polyp characterisation, outperforming both CADx at 84.31% and trainee endoscopists at 87.23% when compared against histologic diagnosis as gold standard.
- For non-adenomatous polyps specifically, CADx performed poorly with 42.11% sensitivity compared to expert endoscopists at 77.27% and trainee endoscopists at 63.16%.
- Trainee endoscopist performance was similar to CADx predictions, though both trainees were experienced endoscopists nearing the end of their training schemes.
- The authors conclude that a resect and discard strategy utilising CADx does not at present appear feasible, and suggest CADx may be more useful in earlier training phases though further studies are necessary.
- This study is relevant to endoscopists and gastroenterology training programs evaluating the role of artificial intelligence tools in polyp characterisation and resect-and-discard strategies.

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