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Summary

RESECT AND DISCARD IN THE ERA OF ARTIFICIAL INTELLIGENCE: A NOVEL CADX ALGORITHM FOR CHARACTERISATION AND SIZING OF POLYPS MEETS PIVI THRESHOLDS

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Colorectal

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A novel computer-aided diagnosis algorithm demonstrated the ability to both size and characterise colorectal polyps in real-time colonoscopy, meeting PIVI thresholds for resect-and-discard and diagnose-and-leave strategies.

KEY POINTS

- In real-time colonoscopy of 116 polyps in 36 patients, the CADx system achieved 90.50% sensitivity and 94.10% specificity for polyp characterisation using image enhancement, with 92.10% accuracy.
- Real-time sizing concordance between endoscopist and AI was 84.61%, and the negative predictive value for diminutive rectosigmoid polyps for adenomatous diagnosis was 93.3%.
- Surveillance interval concordance was 97.2% between histology-based intervals versus AI diagnosis for diminutive polyps combined with histology for non-diminutive polyps.
- The authors state this is the first study demonstrating AI-based sizing and characterisation together in real time, and that the system meets PIVI 1 and PIVI 2 thresholds.
- This study is relevant to endoscopists and gastroenterologists interested in optical diagnosis strategies and the implementation of computer-aided polyp assessment during colonoscopy.

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