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Summary

THE DIAGNOSTIC PERFORMANCE OF ARTIFICIAL INTELLIGENCE-ASSISTED ANALYSIS OF PAN-ENTERIC CAPSULE ENDOSCOPY IN PATIENTS WITH SUSPECTED CROHN'S DISEASE

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An AI algorithm (AXARO) reduced pan-enteric capsule endoscopy review time to a median of 208 seconds per patient while achieving 92-96% sensitivity and 90-93% specificity for detecting Crohn's disease in 131 patients suspected of the condition.

KEY POINTS

- The AXARO framework reduced image output to a median of 2.1% (470 images per patient) from pan-enteric capsule endoscopy, with pooled mean review time of 208 seconds per patient.
- Two blinded observers achieved sensitivities of 96% and 92% for Crohn's disease detection, with specificities of 93% and 90%, respectively, compared to standard specialist evaluation as reference.
- For inflammatory bowel disease overall (Crohn's disease plus ulcerative colitis), sensitivity was 97% for both observers with negative predictive values of 95% for Crohn's disease and 97% for inflammatory bowel disease.
- Interobserver agreement was very high with kappa values of 0.91 for Crohn's disease and 0.92 for inflammatory bowel disease; disagreements occurred mainly in very mild disease and classification of non-specific inflammation.
- The authors conclude the algorithm could serve as a rapid tool to rule out inflammatory bowel disease in newly referred patients; study included patients from a prospective multicenter trial (NCT03134586) with complete capsule endoscopy in 83% of cases.

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