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Summary

ARTIFICIAL INTELLIGENCE FOR DETECTION OF VASCULAR LESIONS AND BLOOD IN CAPSULE ENDOSCOPY: A PROSPECTIVE MULTICENTER MULTICONTINENTAL REAL-WORLD VALIDATION STUDY

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Small Intestine & Nutrition | Endoscopy

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AI-assisted capsule endoscopy markedly improved detection of vascular lesions (sensitivity 95.7% vs 58.9%) and blood/haematic residues across 505 complete CE studies from 13 centers in nine countries.

KEY POINTS

- For vascular lesions, AI detected 291 confirmed cases versus 179 with standard reading, achieving 95.7% sensitivity compared to 58.9%, with AUC-ROC improving from 0.717 to 0.847, though specificity decreased from 84.6% to 73.6%.
- For blood/haematic residues, AI identified 50 cases versus 44 with standard care, achieving both higher sensitivity (96.2% vs 84.6%) and specificity (98.2% vs 97.6%), with AUC-ROC of 0.972 versus 0.911.
- Mean AI-assisted reading time was 335 seconds per examination.
- The study used four different capsule devices across thirteen high-volume centers, supporting the robustness and generalizability of the AI model.
- The presenter noted their department is beginning to use the AI system as a second assistive tool to ensure no lesions are overlooked, though the official record remains the standard-of-care reading.

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