

REAL-LIFE CLINICAL APPLICATION OF AN ARTIFICIAL INTELLIGENCE-ASSISTED READING TOOL FOR AUTOMATED DETECTION AND DIFFERENTIATION OF VASCULAR LESIONS IN CAPSULE ENDOSCOPY: A MULTICENTER STUDY

William Preston Sonnier

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Poster

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A multicenter prospective study of 211 capsule endoscopy videos found that AI-assisted reading significantly outperformed conventional interpretation in detecting small bowel vascular lesions.

KEY POINTS

- AI-assisted reading identified 241 confirmed vascular lesions compared to 158 by conventional reading, with sensitivity of 96.4% versus 67.7%.
- Overall accuracy was higher with AI-assisted reading at 89.7% compared to 76.1% for conventional reading, though specificity was lower at 75.7% versus 93.5%.
- The AUC-ROC was 0.93 for AI-assisted reading compared to 0.78 for standard reading.
- AI-assisted reading reduced mean examination time to 316 seconds per video.
- The study included videos from three different CE devices across seven centers in four countries, supporting generalizability across systems and populations.

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