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Summary

COMPARISON OF AN ARTIFICIAL INTELLIGENCE CAPSULE ENDOSCOPY SYSTEM (NAVICAM®) WITH CONVENTIONAL CAPSULE ENDOSCOPY (PILLCAM® SB3) IN THE STUDY OF THE SMALL BOWEL: THE NAVIPILL PILOT STUDY

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UEG Week Copenhagen 2023 | Poster

Oesophagus

October 15, 2023

A prospective pilot study comparing artificial intelligence reading with Navicam to conventional reading with Pillcam SB3 in small bowel capsule endoscopy found high agreement and significantly reduced reading times.

KEY POINTS

- Twenty patients underwent both Navicam and Pillcam SB3 capsule endoscopy in randomized order; artificial intelligence reading showed 90% overall agreement with conventional reading (Cohen's kappa 0.62).
- Artificial intelligence reading demonstrated 90% diagnostic accuracy in per-patient analysis and 93% in per-lesion analysis, with 97% per-lesion sensitivity.
- Reading time was significantly reduced with artificial intelligence (3.2 minutes) compared to conventional reading (27.5 minutes), p less than 0.001.
- Both capsules showed similar completion rates (100% versus 95%) and diagnostic yield (80% versus 90%), with no adverse events or electromechanical interferences observed.

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