CLINICAL PERFORMANCE EVALUATION OF THE LANDMARK PHOTO CHECKER IN UPPER GASTROINTESTINAL ENDOSCOPY USING LINKED COLOR IMAGING: A SINGLE-CENTER PILOT STUDY

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UEG Week Copenhagen 2023 | Poster

Oesophagus

October 17, 2023

A prospective pilot study of 95 participants evaluated the Landmark Photo Checker AI function for facilitating photodocumentation of seven anatomical landmarks during upper gastrointestinal endoscopy using linked color imaging.

KEY POINTS

- The AI system achieved 87.3% sensitivity (primary endpoint), 75.5% specificity, and 81.5% accuracy in identifying appropriate still images of seven gastric landmarks during endoscopy
- Individual landmark sensitivities ranged from 77.6% to 93.2%, with the body lesser curvature retroflex view and pylorus near field view showing the highest sensitivity at 93.2%
- Specificities varied widely across landmarks, from 38.6% for cardia and fundus to 90.2% for the esophagogastric junction
- The study used a randomized design with 49 participants in the sensitivity verification group (appropriate images captured) and 46 in the specificity verification group (inappropriate images intentionally captured)
- Mean examination time was 8 minutes 10 seconds, and the authors concluded the AI was effective in supporting appropriate image capture using linked color imaging

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