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Summary

ARTIFICIAL INTELLIGENCE-ASSISTED DIAGNOSIS OF GASTRIC INTESTINAL METAPLASIA BASED ON WHITE LIGHT IMAGES: COMPARISON OF DIAGNOSTIC ABILITY WITH ENDOSCOPISTS

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Oesophagus

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An AI model for diagnosing gastric intestinal metaplasia from white-light endoscopy images demonstrated superior accuracy compared to both expert and non-expert endoscopists in a single-center validation study.

KEY POINTS

- The AI-IM model achieved an accuracy of 0.813, sensitivity of 0.891, and specificity of 0.630 when tested on 91 white-light endoscopic images with histologically confirmed diagnoses as the gold standard.
- The AI model's diagnostic accuracy significantly outperformed 11 expert endoscopists (accuracy 0.711, P=0.017) and 20 non-expert endoscopists (accuracy 0.664, P<0.001).
- The study included 6,487 images from 1,454 patients at a single Korean tertiary referral center between 2016 and 2020.
- This work addresses a limitation of image-enhanced endoscopy for intestinal metaplasia diagnosis, which requires special training and shows variable accuracy depending on operator experience.

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