

A NOVEL ARTIFICIAL INTELLIGENCE ASSISTED WHITE LIGHT ENDOSCOPIC MODEL IN THE DIAGNOSIS OF CARDIA ATROPHY: A MULTICENTER STUDY

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Poster

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A multicenter study developed and validated an AI-assisted white light endoscopy system for diagnosing cardia atrophy that outperformed senior endoscopists in internal and external test sets.

KEY POINTS

- The AI system was trained on 895 patients from 2 Chinese hospitals and tested on 220 internal and 354 external test patients between November 2022 and December 2024.
- In the internal test set, the AI system achieved accuracy of 0.927, sensitivity of 0.941, specificity of 0.919, and AUC of 0.967.
- In the external test set, the AI system achieved accuracy of 0.918, sensitivity of 0.894, specificity of 0.931, and AUC of 0.953.
- The AI system outperformed senior endoscopists across all diagnostic metrics in both internal and external test sets.
- The system is proposed for use in guiding white light endoscopic judgment and targeted biopsies for cardia atrophy, addressing the significant difficulty in diagnosing cardia atrophy under conventional endoscopy.

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