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**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 63809

**Manuscript Type:** REVIEW

**Application of artificial intelligence-driven endoscopic screening and diagnosis of gastric cancer**

AI in gastric cancer

### Abstract

The landscape of gastrointestinal endoscopy continues to evolve as new technologies and techniques become available. The advent of image-enhanced and magnifying endoscopies has highlighted the step toward perfecting endoscopic screening and diagnosis of gastric lesions. Simultaneously, with the development of convolutional neural network (CNN), artificial intelligence (AI) has made unprecedented breakthroughs in medical imaging, including the ongoing trials of computer-aided detection of colorectal polyps and gastrointestinal bleeding. In the past





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In gastric cancer, AI is mainly used for molecular bio-information analysis, endoscopic detection for *Helicobacter pylori* infection, chronic atrophic gastritis, early gastric cancer, invasion depth, and pathology recognition.

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### Artificial intelligence in gastric cancer: a systematic review

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Author: Peng Jin, Xiaoyan Ji, Wenzhe Kang, Yang Li...

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presented important data on the **Gastrointestinal Artificial Intelligence Diagnostic System (GRAIDS)** which, after training and validating over 1 million images via **artificial intelligence**, was shown to have a high **diagnostic** accuracy for detecting upper **gastrointestinal cancers**. The rapid pace of advancement in **artificial intelligence** has led to the development of autonomic technologies that assist doctors to ...

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Author: Jialin Li, Bing Li, Wenqian Niu