

Early gastrointestinal (GI) cancer: the application of artificial intelligence



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In the field of **endoscopy**, the application of AI, such as automatic detection, diagnosis, classification, and invasion depth, in early gastrointestinal (GI) cancers has received wide attention. There is a paucity of studies of AI application on common GI benign diseases based on endoscopy.

Author: Hang Yang, Bing Hu

Publish Year: 2021

[Application of artificial intelligence to endoscopy on ...](http://www.wjgnet.com/2689-7164/full/v2/i2/25.htm)
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Early gastrointestinal cancer: The application of artificial intelligence

Yang H *et al.* AI and early GI cancer

Hang Yang, Bing Hu

Abstract

Early gastrointestinal (GI) cancer has been the core of clinical endoscopic work. Its early

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Ueyama H, Kato Y, Akazawa Y, et al. Application of artificial intelligence using a convolutional neural network for diagnosis of early gastric cancer based on magnifying endoscopy with narrow-band imaging.

Author: Jun Zhou, Na Hu, Zhi-Yin Huang, Bin So... **Publish Year:** 2021

Application of Artificial Intelligence for Early Diagnosis ...

<https://clinicaltrials.gov/ct2/show/NCT04563416> ▼

Sep 24, 2020 · Nowadays, **Artificial intelligence** (AI) using deep machine learning has made a major breakthrough in gastroenterology, which using gradient descent method and backpropagation to automatically extract specific images features. The diagnostic accuracy in identifying upper **gastrointestinal cancer** was 0.955 in C-WLI .

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