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Application of artificial intelligence in the diagnosis and prediction of gastric cancer

Qie YY *et al.* AI in the gastric cancer

Yin-Yin Qie, Xiao-Fei Xue, Xiao-Gang Wang, Sheng-Chun Dang

Abstract

Gastric cancer is the second leading cause of cancer deaths worldwide. Despite the great progress in the diagnosis and treatment of gastric cancer, the incidence and mortality rate of disease in China are still relatively high. The high mortality rate of gastric cancer

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Artificial intelligence (AI) has reached new heights in clinical cancer research in recent years. • AI is applied to assist cancer diagnosis and prognosis, given its unprecedented accuracy level, which is even higher than that of general statistical expert. •

Author: Shigao Huang, Jie Yang, Simon Fong,... Publish Year: 2020

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Apr 16, 2020 · Artificial intelligence (AI) approaches have emerged as promising tools to address important unmet needs across different specialties in medicine, including oncology, radiology, and pathology. Recent studies have described the utility of AI in lung cancer to improve detection, **diagnosis**, and prognostication.

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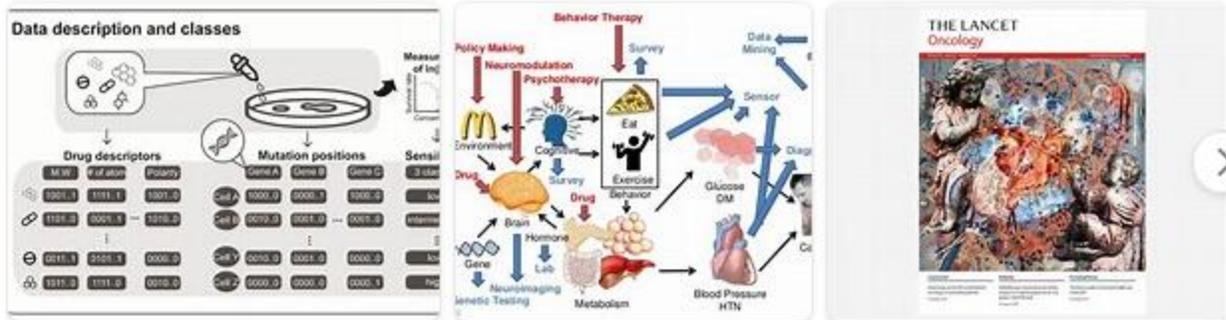
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The improvement of biomedical translational research and the **application of advanced statistical analysis** and machine learning methods are the driving forces to improve **cancer prognosis prediction**.

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Artificial intelligence in cancer diagnosis Clinicians usually rely on their personal knowledge and clinical experience when examining patients' signs and symptoms. This clinical information and data can be used to **diagnose disease**, but the accuracy of the **diagnosis** cannot be guaranteed, and it is impossible to avoid mistaken **diagnoses**.

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Jan 01, 2020 · Since 2010, substantial progress has been made in **artificial intelligence (AI)** and its **application** to medicine. AI is explored in gastroenterology for **endoscopic analysis** of lesions, in detection of **cancer**, and to facilitate the analysis of inflammatory lesions or **gastrointestinal bleeding** during wireless capsule endoscopy.

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artificial neural network to **predict** the survival rate of **cancer** patients more accurately. In this con-text,