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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 57010

Manuscript Type: MINIREVIEWS

Potential applications of artificial intelligence in colorectal polyps and cancer: Recent advances and prospects

Ke-Wei Wang, Ming Dong

Abstract

Since the advent of artificial intelligence (AI) technology, it has been constantly studied and achieved rapid development. The AI assistant system is expected to improve the



Potential applications of artificial intelligence in colorectal polyps



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Cited by: 2**Author:** Wei-Lun Chao, Hanisha Manickavasagan, S...**Publish Year:** 2019

Artificial intelligence might help improve ... - Cancerworld

<https://cancerworld.net/news/artificial-intelligence-might-help-improve-the...> ▼

May 04, 2020 · Home News **Artificial intelligence** might help improve the classification of **colorectal polyps** ... this study is the first to evaluate a deep neural network for **colorectal polyp** classification on a large multi-institutional data set with comparison with local diagnoses made at the point of care» Saeed Hassanpour and colleagues write in a paper ...

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Oct 30, 2017 · "The most remarkable breakthrough with this system is that **artificial intelligence** enables real-time optical biopsy of **colorectal polyps** during colonoscopy, regardless of the endoscopists' skill ...

New Use of A.I. Accurately Detected Cancer 86 Percent of ...

<https://www.inverse.com/article/37873-artificial...> ▼

Here's how the researchers used **artificial intelligence** to spot **cancer**: The AI program observed a **colorectal polyp** magnified by 500 times in order to spot its variations.

Author: Megan Eredetto

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[Role of AI in detection and management of colorectal ...](#)

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Artificial intelligence (AI) is emerging as a tool with which gastroenterologists can improve **colon polyp** detection rates, characterization and management. ... "Because IBD increases an individual's risk of **colorectal cancer**, the **potential** utility of AI to enhance **polyp** detection in these patients is very exciting," explains Dr. Coelho Prabhu.

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6787748>

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Oct 30, 2017 - "The most remarkable breakthrough with this system is that **artificial intelligence** enables real-time optical biopsy of **colorectal polyps** during colonoscopy, regardless of the endoscopists' skill ...

Author: Brett Molina

[The role of artificial intelligence in colon polyps ...](#)

<https://journals.sbm.ac.ir/ghfbb/index.php/ghfbb/article/view/1866> ▾

Jun 02, 2020 - Over the past few decades, **artificial intelligence** (AI) has evolved dramatically and is believed to have a significant impact on all aspects of technology and daily life. The use of AI in the healthcare system has been rapidly growing, owing to the large amount of data. Various methods of AI including machine learning, deep learning and convolutional neural network (CNN) have been used in ...

Author: Pezhman Rasouli, Arash Dooghaie M...

Publish Year: 2020