

[Making colonoscopies 'smarter' with artificial intelligence](https://www.ucihealth.org/blog/2018/03/artificial-intelligence-colon-cancer)

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Promising new research at UC Irvine indicates that **colonoscopies aided by artificial intelligence (AI) software can dramatically improve ADR**, even among highly proficient colonoscopists. The research is being conducted by a team led by UCI Health gastroenterologist Dr. William E. Karnes, who is working with AI specialists at DocBot, a company that began through UCI Applied Innovation. Essentially, all colorectal cancers s...

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Published: Mar 27, 2018

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Feb. 14, 2020. **Artificial intelligence (AI)** is emerging as a tool with which gastroenterologists can **improve colon polyp** detection rates, characterization and management. This branch of computer scien...

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The most experienced colonoscopists have been able to reduce their patients' cancer risk by 82 percent. Promising new research at UC Irvine indicates that colonoscopies aided by artificial intelligence (AI) software can dramatically improve ADR, even among highly proficient colonoscopists.



Making colonoscopies 'smarter' with artificial intelligence

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Name of Journal: *Artificial Intelligence in Gastrointestinal Endoscopy*
Manuscript NO: 68259
Manuscript Type: MINIREVIEWS

Artificial Intelligence and Colonoscopy - Enhancements and Improvements

Artificial Intelligence and Colonoscopy - Enhancements and Improvements

Byung Soo Yoo, Steve Mark D'Souza, Kevin Houston, Ankit Patel, James Lau, Alsiddig Elmahdi, Parth J Parekh, David Johnson

Abstract

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Author: Yuichi Mori, Yuichi Mori, Helmut Neuman...

Publish Year: 2021

Use of artificial intelligence in improving adenoma ...

<https://pubmed.ncbi.nlm.nih.gov/33132644>

Use of **artificial intelligence** in improving adenoma detection rate during **colonoscopy**: Might both endoscopists and pathologists be further helped *World J Gastroenterol* . 2020 Oct 21;26(39):5911-5918. doi: 10.3748/wjg.v26.i39.5911.

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Background: **Artificial intelligence** (AI)-based polyp detection systems are used during **colonoscopy** with the aim of increasing lesion detection and improving **colonoscopy** quality. Patients and methods: We performed a systematic review and meta-analysis of prospective trials to determine the value of AI-based polyp detection systems for detection of polyps and colorectal cancer.

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Author: Ishita Barua, Daniela Guerrero Vinsard, D...

Publish Year: 2021

Cost savings in colonoscopy with artificial intelligence ...

<https://pubmed.ncbi.nlm.nih.gov/32240683>

Background and aims: **Artificial intelligence** (AI) is being implemented in **colonoscopy** practice, but no study has investigated whether AI is cost saving. We aimed to quantify the cost reduction using AI as an aid in the optical diagnosis of colorectal polyps. Methods: This study is an add-on analysis of a clinical trial that investigated the performance of AI for differentiating colorectal ...

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Author: Yuichi Mori, Shin-ei Kudo, James E. East...

Publish Year: 2020