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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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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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Adoption of **artificial intelligence** (AI) in clinical medicine is revolutionizing daily practice. In the field of **colonoscopy**, major endoscopy manufacturers have already launched their own AI products on the market with regulatory approval in Europe and Asia. This commercialization is strongly support ...

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Author: Yuichi Mori, Yuichi Mori, Helmut Neumann, ...

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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

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### Artificial intelligence in colonoscopy: Now on the market ...

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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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Author: Emanuele Sinagra, Matteo Badalamenti, ...

Publish Year: 2020

### Artificial intelligence for polyp detection during ...

<https://pubmed.ncbi.nlm.nih.gov/32557490>

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