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Artificial intelligence for colorectal polyp detection ...

jmai.amegroups.com/article/view/5127/html

Artificial intelligence for **colorectal polyp detection**: are we ready for prime time? **Colorectal cancer** (CRC) is a leading cause of **cancer-related** mortality worldwide. **Colonoscopy** is protective against CRC through the detection and removal of **neoplastic polyps**.

Author: Omer F. Ahmad, Laurence B. Lovat **Publish Year:** 2019

Artificial Intelligence in Colonoscopy: Improving Medical ...

ijmi.ir/index.php/IJMI/article/view/209/302

Nov 22, 2019 · Although the various method of **polyp detection** is available, **colonoscopy** remains the standard in **detection and removal of polyps**. Several studies showed how **Artificial Intelligence** (**AI**) used in **colonoscopy** such as in **detecting polyps**, assessing physicians and predicting patients with a high risk of CRC.

Artificial Intelligence Identifying Polyps in Real-world ...

https://clinicaltrials.gov/ct2/show/NCT03761771

Artificial Intelligence Identifying Polyps in **Real-world Colonoscopy** The safety and scientific validity of this study is the responsibility of the study sponsor and investigators. Listing a study does not mean it has been evaluated by the U.S. Federal Government.

Artificial Intelligence-Assisted Polyp Detection for ...

https://www.gastrojournal.org/article/S0016-5085(18)30415-3/abstract

Apr 10, 2018 · The adenoma detection rate is an established quality indicator for **colonoscopy**. For instance, a 1% increase in the adenoma detection rate was associated with a 3% decrease in interval colorectal cancer incidence.1 However, a previous meta-analysis showed that approximately 26% of neoplastic diminutive **polyps** were **missed** in single **colonoscopy**.2 Two factors are considered ...

Cited by: 69 **Author:** Masashi Misawa, Shin-ei Kudo, Yuichi ...

Publish Year: 2018

Performance of artificial intelligence for colonoscopy ...

https://pubmed.ncbi.nlm.nih.gov/32598963

According to available evidence, the incorporation of **Artificial Intelligence** as aid for **detection of colorectal neoplasia** results in a significant increase of **the detection of colorectal neoplasia**, and such effect is independent from main adenoma characteristics.

Author: Cesare Hassan, Marco Spadaccini, A… **Publish Year:** 2020

AI-assisted Detection of Missed Colonic Polyps

https://clinicaltrials.gov/ct2/show/NCT04227795

Jan 14, 2020 · If additional **polyps** were detected by AI but not by the endoscopist, that segment were reexamined to **look for the missed polyp**. If no additional **polyp** was detected by the AI, the **next colonic** segment was examined. **Missed lesions** were defined as **lesions** identified by AI and then confirmed on reexamination by the endoscopist.

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 57198

Manuscript Type: MINIREVIEWS

Is artificial intelligence the final answer to missed polyps in colonoscopy?

Thomas KL Lui, Wai K Leung

Abstract

Lesions missed by colonoscopy are one of the main reasons for post-colonoscopy colorectal cancer, which is usually associated with a worse prognosis. Since the adenoma miss rate could be as high as 26%, it has been noted that endoscopists with higher adenoma detection rates are usually associated with lower adenoma miss rates.

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Artificial Intelligence-Assisted Polyp Detection for ...

https://www.gastrojournal.org/article/S0016-5085(18)30415-3/fulltext

Apr 10, 2018 · Our proposed CADe system showed that **artificial intelligence** has the potential to provide automated detection of **colorectal polyps**. Further machine learning and prospective evaluation are mandatory; however, such **CADe systems** are expected to **fill** the gap between endoscopists with different levels of experience.

Cited by: 93 **Author:** Masashi Misawa, Shin-ei Kudo, Yuichi M...
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Performance of artificial intelligence for colonoscopy ...

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Artificial intelligence for colorectal polyp detection ...

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3. Randomised clinical trials
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