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**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 60037

**Manuscript Type:** OPINION REVIEW

**Artificial intelligence-aided colonoscopy: recent developments and future perspectives**

AI for colonoscopy

### Abstract

Artificial intelligence (AI) systems, especially after the successful application of Convolutional Neural Networks, are revolutionizing modern medicine. Gastrointestinal Endoscopy has shown to be a fertile terrain for the development of AI systems aiming to aid endoscopists in various aspects of their daily activity. Lesion detection can be one of the two main aspects in which AI can increase diagnostic yield and abilities of endoscopists. In colonoscopy, it is well known that a substantial rate of missed neoplasia is still present, representing the major cause of interval cancer. In addition, on



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Furthermore, some **artificial intelligence-assisted systems** that aim to improve the quality of **colonoscopy** have been reported. The implementation of computer-**aided system clinical practice** may provide additional benefits such as helping in educational poorly performing endoscopists and supporting real-time clinical decision-making.

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**Artificial intelligence-assisted colonoscopy** is no doubt an attractive option for **standardizing endoscopy practice**, which is necessarily imperfect because of human error. Several related technologies and their...

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