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

**Manuscript NO:** 62738

**Manuscript Type:** MINIREVIEWS

## Artificial Intelligence Applications in Inflammatory Bowel Disease: Emerging Technologies and Future Directions

Artificial Intelligence in <sup>10</sup>Inflammatory Bowel Disease

### Abstract

Inflammatory bowel disease (IBD) is a complex and multifaceted disorder of the gastrointestinal tract that is increasing in incidence worldwide and associated with significant morbidity. The rapid accumulation of large datasets from electronic health records, high-definition multi-omics (including genomics, proteomics, transcriptomics, and metagenomics), and imaging modalities (endoscopy and endomicroscopy) have provided powerful tools to unravel novel mechanistic insights and help address unmet clinical needs in IBD. Although the application of artificial intelligence (AI) methods has facilitated the analysis, integration, and interpretation of large datasets in IBD,





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Artificial intelligence, through machine learning facilitates the interpretation of large arrays of data, and may provide insight to improving IBD outcomes. While potential **applications** of machine learning models are vast, further research is needed to generate standardized models that can be adapted to target IBD

...

Author: Arushi Kohli, Erik A Holzwanger, Alex... Publish Year: 2020

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Some of the early efforts in applying AI tools to GI will be focused on improving diagnosis and outcomes in common, yet complex GI **diseases** such as liver cirrhosis and **inflammatory bowel disease**.

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With the advancement of computational power, refinement of learning algorithms and architectures, and availability of big data, **artificial intelligence (AI) technology**, particularly with machine learning and deep learning, is paving the way for 'intelligent' healthcare systems. AI-related research i ...

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Feb 01, 2021 · In addition, integration of **AI technology** and telemedicine is now emerging as a potential strategy to address limitations in healthcare resources.<sup>12 13</sup> In this review, we provide an overview of **AI applications** to the anterior segment, addressing the assessment of cornea, cataract and anterior chamber structures, important clinical considerations for clinical adoption, potential **integration** with ...

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Mar 09, 2020 · Machine learning and artificial intelligence are most commonly applied to multiple

... (MS), ... (PA), ... (PD), MS, IBD, ...



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**Artificial intelligence**, through machine learning facilitates the interpretation of large arrays of data, and may provide insight to improving **IBD** outcomes. While potential **applications** of machine learning models are vast, further research is needed to generate standardized models that can be adapted to target **IBD** ...

**Cited by:** 1      **Author:** Arushi Kohli, Erik A Holzwanger, Alexander ...

**Publish Year:** 2020

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Some of the early efforts in applying AI tools to **GI** will be focused on improving diagnosis and outcomes in common, yet complex **GI diseases** such as liver cirrhosis and inflammatory bowel disease. Other potential applications could include practice optimization for endoscopic procedures, the development of new image analysis tools, and innovation focused on early detection of pancreatic and other **GI** cancers.

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