



## PEER-REVIEW REPORT

**Name of journal:** Artificial Intelligence in Gastrointestinal Endoscopy

**Manuscript NO:** 60490

**Title:** Artificial intelligence assisted endocytoscopy: a novel eye in endoscopy

**Reviewer's code:** 05382551

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** Spain

**Author's Country/Territory:** Bulgaria

**Manuscript submission date:** 2020-11-01

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-11-03 00:20

**Reviewer performed review:** 2020-11-03 00:45

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

The paper presents a review about the most relevant information related to the latest Endocytoscopy technology and its clinical application in the lower gastrointestinal tract diagnostic. The subject matter is within the scope of the journal. The article is well written and structured. I consider that it can be published in its current state.



## PEER-REVIEW REPORT

**Name of journal:** Artificial Intelligence in Gastrointestinal Endoscopy

**Manuscript NO:** 60490

**Title:** Artificial intelligence assisted endocytoscopy: a novel eye in endoscopy

**Reviewer's code:** 00047316

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** Hungary

**Author's Country/Territory:** Bulgaria

**Manuscript submission date:** 2020-11-01

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2020-11-05 07:09

**Reviewer performed review:** 2020-11-16 14:56

**Review time:** 11 Days and 7 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

Extremely interesting topic. the authors present the real time histology results of a new device - endocytoscope (EC) - in the diagnosis and characterisation of GI neoplasms. The authors also introduce the role and value of artificial intelligence (AI) technology combined with EC in the real time histology diagnosis of colorectal polyps. However, it is not clear whether the authors deal only with the study results performed with EC or also with the results achieved by conventional NBI colonoscopies. Question is whether colonoscopy studies are also involved in the analysis? For example publication by Cesare Hassan et al. (citation 25) is a meta-analysis of studies performed by colonoscopies and not only by endocytoscopes. Despite of these anomalies the review is correct and very informative.



## PEER-REVIEW REPORT

**Name of journal:** Artificial Intelligence in Gastrointestinal Endoscopy

**Manuscript NO:** 60490

**Title:** Artificial intelligence assisted endocytoscopy: a novel eye in endoscopy

**Reviewer's code:** 05261363

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Chief Physician, Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Bulgaria

**Manuscript submission date:** 2020-11-01

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2020-11-03 11:30

**Reviewer performed review:** 2020-11-19 07:28

**Review time:** 15 Days and 19 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

Endocytoscopy (EC) is a innovative endoscopic technique facilitates a more accurate evaluation of the superficial mucosal surface and allows real-time examination with the capability to distinguish normal from abnormal mucosa. This review aims to represent the most relevant information related to the latest EC technology and its clinical application in the lower GI tract diagnostic. The paper discussed mainliy the role of artificial intelligence-assisted endocytoscopy in colorectal polyps, colorectal cancer and IBD. It means that EC has shown an excellent diagnostic accuracy, offering to aid in the in-vivo diagnosis of lesions in the lower GI tract. It is more helpful for readers to learn.