

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 90899

Title: Capsule endoscopy and panendoscopy: A journey to the future of gastrointestinal endoscopy

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03478404

Position: Editor-in-Chief

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Romania

Author's Country/Territory: Portugal

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2024-01-02 09:49

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Scientific quality	<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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	[Y] Grade A: Excellent [] Grade B: Good [] Grade C: Fair [] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [] Accept (General priority) [Y] Minor revision [] Major revision [] Rejection
Re-review	[Y] Yes [] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [] Onymous
	Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This manuscript represents a very good review on advantages and limitations of the panenteric capsules, in comparison with invasive methods and some imaging techniques, based on appropriate scientific literature and personal experience. Their usefulness in Crohn's disease was well approached, including (besides mucosal healing and other classical indications) the importance of the findings (by PCE) in changing the disease management. The paragraph about mid to lower gastrointestinal bleeding is also well crafted, with very recent data. Safety and pitfalls in CD were also properly addressed. The description on recently developed magnetically controlled capsule endoscopy is nicely summarized, as this review is described as a journey to the future. The usefulness of artificial intelligence in capsule endoscopy (including panenteric capsules) was also addressed, including a very recent prospective study. Nonetheless, the best paragraph, beautifully conceived is represented by "Summary and future perspectives", where the authors commented from their own point of view, about "how", "what to choose" and "when" regarding the panenteric capsules or other techniques; it gives an original note to this review. The manuscript is well written and structured (including the tables) and it

contains most important references. It appears easily to be read, given the clarity of the data. Info is accurate and useful for our practice. It is true that, nowadays, there are many reviews concerning the panenteric capsules, the role of the artificial intelligence in capsule endoscopy and so on, but this one has novelties and original points of view. I have only some minor remarks, listed below: 1. Maybe the historical aspects regarding the original capsule endoscopy (in Introduction) could be considered too much, as these things are well known, but personally I would not omit them, as they are presented in comparison with the panenteric devices. 2. Regarding the number of citations of their own personal manuscripts, representing 12% of the total number (9 out of 74), I consider it appropriate, as they are references of utmost importance, that had to be included in such a comprehensive review. 3. I just suggest the Authors to include two very recent references: 1. Levartovsky A, Eliakim R. Video Capsule Endoscopy Plays an Important Role in the Management of Crohn's Disease. *Diagnostics*. 2023; 13(8):1507. 2. Mascarenhas M, Martins M, Afonso J, Ribeiro T, Cardoso P, Mendes F, Andrade P, Cardoso H, Ferreira J, Macedo G. The Future of Minimally Invasive Capsule Panendoscopy: Robotic Precision, Wireless Imaging and AI-Driven Insights. *Cancers*. 2023; 15(24):5861. Especially the 2nd one is excellent and it contains important data. Very minor suggestions: 1. Table 3: CD could be used, instead of Crohn's disease – in "suspected Crohn's Disease"; UC abbreviation does not need to be explained, as it was not used in the table (just atypical ulcerative colitis)" 2. Page 9: in the sentence: "as demonstrated in the multicentric study by Way et al.," – please replace "Way" with "Tai", as in reference [22] – Tai is correct.