



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 48672

Title: Beneficial effects of nutritional supplements on intestinal epithelial barrier functions in experimental colitis models in vivo

Reviewer's code: 02441062

Reviewer's country: Italy

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-04-30 10:02

Reviewer performed review: 2019-05-09 12:44

Review time: 9 Days and 2 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is an interesting topic, but in my opinion, it would be useful to change the setting of the review. In particular, the authors describe the two types of experimental colitis, namely the DSS model and the TNBS model, but the two parts are very unbalanced. I



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-223-8242
Fax: +1-925-223-8243
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

would suggest to improve the part concerning the TNBS model, and to group the two models of experimental colitis into a single chapter. Subsequently the various nutritional supplements used can be discussed without dividing them according to the experimental model. Furthermore, it would be necessary to add a more in-depth discussion part, in which to draw some conclusions and highlighting the key points, also discussing the possible use of some of these substances in humans.

INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 48672

Title: Beneficial effects of nutritional supplements on intestinal epithelial barrier functions in experimental colitis models in vivo

Reviewer's code: 03538272

Reviewer's country: Australia

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-04 09:45

Reviewer performed review: 2019-05-11 11:53

Review time: 7 Days and 2 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input checked="" type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The authors provide a comprehensive review of nutritional supplements with anti-inflammatory and anti-oxidative and how they may contribute to the intestinal barrier function based on mouse models. There are a number of minor grammatical, but



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7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-223-8242
Fax: +1-925-223-8243
E-mail: bpgoffice@wjgnet.com
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the content is very interesting. There are just a couple of points relating to the structure:

- A methods section detailing the scope of the study should be added and how relevant studies were identified (even briefly)
- A discussion section should be added which addresses the potential issues with the findings or limitations of the study and how this will impact on the interpretations.

Minor points:

- Abstract Line 2 - remove “the” from before diet
- Introduction: Line 2: consider changing the sentence “Most of these cases do not require treatment, with changes in life-style resolving the problems” to “Most cases are self-limited and resolve without specific treatment”. The next sentence should then discuss that some forms of colitis require long term therapy (like IBD)
- Line 12 - consider removing word “strongly”
- Line 15 - consider changing chemodrugs to immunosuppressive therapy or immunomodulators
- DSS colitis model Paragraph 2 line 2: add “an” between “as important”
- Page 7 second last line - colon should be colonic
- Section 3.4 Paragraph 2 Line 4 - change gavage to lavage
- 3.6 Line 1 - change fibers to fiber
- Page 14 section on magnolol - it should be “the anti-inflammatory mechanism of magnolol was shown to relate to the”

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[] Plagiarism

[Y] No



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 48672

Title: Beneficial effects of nutritional supplements on intestinal epithelial barrier functions in experimental colitis models in vivo

Reviewer's code: 00502973

Reviewer's country: China

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-02 11:32

Reviewer performed review: 2019-05-13 12:33

Review time: 11 Days and 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In this manuscript, the authors reviewed the pathogenesis mechanisms of DSS and TNBS induced colitis in rodents and the effects of some bioactive molecules. These two animal models are the most common used animal models in the study of IBD. The



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7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
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effects of these bioactive molecules would shed light on the development of new therapeutic drugs for IBD. Thus this review is within the scope of WJG. The English used in this manuscript is good for publication. I would have 2 suggestions for this submission. 1. As most of the molecules mentioned in this manuscript are from alternative medicine, and not from conventional nutritional supplements, I would suggest to change the title "Beneficial effects of nutritional supplements on intestinal epithelial barrier functions in experimental colitis models in vivo" to "Beneficial effects of some bioactive molecules from alternative medicine on intestinal epithelial barrier functions in experimental colitis models in vivo" 2. In Conclusion, I think that "Thus, preservation of epithelial barrier functions is the most important goal of all colitis treatments" changing to "Thus, preservation of epithelial barrier functions is an important goal of all colitis treatments" would be more safe and reasonable. The reason is that it is not widely accepted that preservation of epithelial barrier functions is the top one target of all colitis treatment.

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[Y] No