

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 80188

Title: The role of natural products and intestinal flora on type 2 diabetes mellitus treatment

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05387405

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Research Scientist

Reviewer's Country/Territory: Hungary

Author's Country/Territory: Turkey

Manuscript submission date: 2022-09-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-22 07:21

Reviewer performed review: 2022-09-22 07:37

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input checked="" type="checkbox"/> Grade E: Do not publish
Language quality	<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
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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Peer-reviewer statements	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 manuscript is very short (~ 3 Word pages) with only 18 references, and lacks any in-depth details about the topic. In its current form it is more like an informative online article than a true scientific review article. My recommendation: Reject.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03830173

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor, Doctor

Reviewer's Country/Territory: Croatia

Author's Country/Territory: Turkey

Manuscript submission date: 2022-09-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-22 13:11

Reviewer performed review: 2022-09-22 13:22

Review time: 1 Hour

Scientific quality	<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
Language quality	<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
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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Peer-reviewer statements	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

Dear Authors, Your review is an interesting summary on current literature about the role of intestinal flora on diabetes, primarily type 2 diabetes, prevention and potentially treatment. I would suggest to leave out the classification of diabetes in 3 types. In addition, do not use term diabetics but rather person with diabetes or a T2DM patients which ever is more convenient. You should also prepare literature citations within text according to Journal's propositions.

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Title: The role of natural products and intestinal flora on type 2 diabetes mellitus treatment

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04152279

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Turkey

Manuscript submission date: 2022-09-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-23 03:19

Reviewer performed review: 2022-09-23 14:23

Review time: 11 Hours

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

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

In recent years, the research on the intestinal microbiota has been continuously deepened, and more and more studies show that the microbiota may play an important role in the development of various diseases in the human body. This paper combines the two research topics of diabetes and intestinal microbe, and summarizes the relationship between diabetes occurrence and development and intestinal microbiosis and the treatment of diabetes through the treatment of intestinal microbial dysbiosis. The review content has great guiding value for clinical practice, and the direction selection is also relatively novel. But there are still the following problems: 1. It is suggested to add a subheading to the paragraphs of the three mechanisms of short-chain fatty acids, bile acids and endotoxin to make the article more organized. 2. The content of the three theoretical mechanisms is less. Please continue to consult the relevant literature in the past three years, enrich the content, and add some mechanism maps appropriately. 3. The overall content of the article is slightly less, with only 18 references. Please continue to consult the literature and supplement the relevant content.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05864760

Position: Peer Reviewer

Academic degree: MSc

Professional title: Assistant Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Turkey

Manuscript submission date: 2022-09-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-23 07:24

Reviewer performed review: 2022-09-26 04:59

Review time: 2 Days and 21 Hours

Scientific quality	<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
Language quality	<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
Conclusion	<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
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Indeed, a good topic selected for review. The present review focused on the role of natural products and intestinal flora on diabetes mellitus treatment. The findings reported the short-chain fatty acids theory, the bile acid theory, and the endotoxin theory are all potential methods by which intestinal flora contributes to the establishment and progression of type 2 diabetes. According to research, regulating intestinal flora can improve insulin resistance, increase insulin production, and play an important role in blood sugar regulation. The present review suggested the use of Natural products (bioactive compounds) helps in the modulation of intestinal flora and can be used in the treatment of metabolic diseases such as diabetes and obesity. Key problems are not mentioned and the tentative solution. In upcoming years use of natural products to can be used for diabetes treatment that regulates intestinal flora and this could be an innovative step in the prevention and treatment of diabetes.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05240119

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Turkey

Manuscript submission date: 2022-09-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-20 17:52

Reviewer performed review: 2022-10-03 13:22

Review time: 12 Days and 19 Hours

Scientific quality	<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
Language quality	<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
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This review mainly briefly describes the role of intestinal flora in type 2 diabetes mellitus, and does not mention type 1. It is suggested to change the title. Is there basic experimental support? The relationship between stool and gut microbiota needs to be described in detail. The intestinal flora mechanisms in the formation and development of type 2 diabetes mellitus is not particularly clear.