

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 53226

Title: Gut microbiota and Nutrients interactions with skin in psoriasis: A comprehensive review of animal and human studies

Reviewer's code: 03478404

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's country: Romania

Author's country: Italy

Manuscript submission date: 2019-12-10

Reviewer chosen by: Jin-Zhou Tang

Reviewer accepted review: 2019-12-22 10:53

Reviewer performed review: 2019-12-29 13:06

Review time: 7 Days and 2 Hours

| 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 |
| <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 checked="" type="checkbox"/> Advanced |
| | | <input type="checkbox"/> Rejection | <input type="checkbox"/> General |
| | | | <input type="checkbox"/> No expertise |
| | | | Conflicts-of-Interest: |
| | | | <input type="checkbox"/> Yes |
| | | | <input checked="" type="checkbox"/> No |



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SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled "Gut microbiota and Nutrients interactions with skin in psoriasis: A comprehensive review of animal and human studies" appears as a high quality and innovative review of the available published data. The scientific content of the paragraphs is very good and titles of the paragraphs are very well chosen. The two Tables contain pertinent data and include the known studies to date. Figure 1 is of excellent scientific quality, and illustrative. The use of new actual terms is highly appreciated (exposome, microbiome, infectome and autoinfectome). References are up-to-date. In all, a very good and well-written review. Readers should learn a lot from this paper. Minor comments: 1. There is no short (running) Title 2. In "Introduction", the authors wrote "In addiction", instead of "In addition". Please correct. 3. "Psoriasis, diet and circadian rhythm". There is nothing about circadian rhythm in this paragraph. There are mentions about vitamin D, but nothing about the rhythm.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism



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[Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 53226

Title: Gut microbiota and Nutrients interactions with skin in psoriasis: A comprehensive review of animal and human studies

Reviewer's code: 00002649

Position: Editorial Board

Academic degree: MD

Professional title: Professor

Reviewer's country: United States

Author's country: Italy

Manuscript submission date: 2019-12-10

Reviewer chosen by: Jin-Zhou Tang

Reviewer accepted review: 2019-12-25 03:25

Reviewer performed review: 2020-01-07 13:15

Review time: 13 Days and 9 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 type="checkbox"/> Grade B: Minor language | (High priority) | <input type="checkbox"/> Anonymous |
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| <input type="checkbox"/> Grade E: Do not | language polishing | <input type="checkbox"/> Minor revision | topic of the manuscript: |
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| | | <input type="checkbox"/> Rejection | <input type="checkbox"/> General |
| | | | <input type="checkbox"/> No expertise |
| | | | Conflicts-of-Interest: |
| | | | <input type="checkbox"/> Yes |
| | | | <input type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

Gut microbiota and Nutrients interactions with skin in psoriasis: A comprehensive review of animal and human studies. This study explores psoriasis pathogenesis including the microbiome, infectome, and autoinfectome. Authors describe studies of diet, obesity, vitamins, and potential interaction with microbiota. They attempt to summarize the current knowledge of Skin-Microbiome-Gut-Nutrient interactions.

COMMENTS: Major: 1. There are many grammatical and contextual errors. Initially, I felt the entire review should be rejected because it is difficult to understand. However, I have re-written most of it (attached) because I think there is value to what is being reported. 2. Section 2. This might be a good place to discuss exposome (shown in the figure). What environmental factors are there besides obesity and oxidant stress? Drugs, toxins, pollutants? Lifestyle, alcohol, psychological factors? 3. Section 6: Sentence beginning with Although... Authors need to strongly defend why they think the microbiota are important despite these 2 systematic reviews. Do these reviews refute reduced microbial diversity? 4. The last paragraph is redundant with the last sentence in section 6. There is limited, evolving information suggesting some benefit from fecal microbiota transplantation, not probiotics, although durability of response is a concern and under investigation. 5. Sentence: "Moreover, various antimicrobial peptides which regulate the cutaneous microbiome have been identified as autoantigens in psoriasis" is important. This should be mentioned early in this review. Minor: 6. I do not understand the statement: "a very high correlation of dietary regimens or selected food components recommendation on the protection against cancer was documented among general population." 7. Last sentence Section 4: solenopsin analogs: What are these? 8. Table 1: there are several questions. Psoriasis risk factor (without s). Reduced vitamin D level. Reference 46: Increase of Akkermansia (or

decrease)? 9. Section 5: reference 47. Which probiotic(s)? Two studies on probiotics are in Table. These should be discussed. 10. I do not understand the sentence: The absence in the anamnesis of an infection could be attributed to the fact that even silent infections can act as triggers for autoimmune diseases. 11. First sentence, section 7. Authors should mention that the microbiome has been previously reviewed in 58. 12. Section 7: Candia levels in gut microbiome? Levels? I don't understand. Candida is in the mycobium. 13. Last sentence: The transition from immune-targeted therapy to precision therapy will be based on the mix between biological signature, the endotype, and the specific interaction with the exposome. No additional sentence is needed.

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