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## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastrointestinal Pathophysiology*

**Manuscript NO:** 108952

**Title:** Gut-skin axis: emerging insights for gastroenterologists- a narrative review

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 08492962

**Position:** Peer Reviewer

**Academic degree and professional title:** Chief Physician

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

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

**Manuscript submission date:** 2025-04-27

**Reviewer chosen by:** AI Editor

**Reviewer accepted review:** 2025-04-28 15:26

**Reviewer performed review:** 2025-05-14 01:36

**Review time:** 15 Days and 10 Hours

<b>Content to be reviewed</b>	Does the manuscript's content fall within the scope of the journal? <b>Yes</b> Is there any Key Word that is not included in the manuscript title? <b>Yes</b> Do authors' affiliations correspond to the content of the manuscript? <b>Yes</b> Does the Abstract contain the contents of each part of the manuscript (IMRaD)? <b>Yes</b> Are the Key Words complete? <b>Yes</b> Is the content of the Introduction adequate? <b>Yes</b>
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Is the content of the Materials and Methods complete?

**Not Applicable**

Is the description of the experiments clear and complete? **Not Applicable**

Are the experimental data presented in the manuscript's biostatistics content reliable? **Not Applicable**

Are the experimental data of the Results true and reliable? **Not Applicable**

Are the quality and resolution of the images up to standard? **Yes**

Do the selection and design of the figures and tables follow the principles of necessity and clarity? **Yes**

Is there any duplication between various parts of the manuscript and between the main text and the content presented in the figures and tables? **Yes**

Are the figures and tables numbered consecutively in the order in which they appear in the manuscript? **Yes**

Is the content of the Discussion reasonable? **Yes**

Is the Conclusion reasonable? **Yes**

Are all references necessary and reasonable? **Yes**

Do authors omit important references? **Yes**

Are all references related to the topic of the manuscript? **Yes**

Do authors only cite their own earlier publications? **Yes**

Is the manuscript's text correct, concise, and clear? **Yes**

Will the manuscript's content be of interest to readers? **Yes**

Are additional experiments needed for the study? **Yes**

Does the research scope comply with ethics? **Yes**



Scientific quality	Grade A (Excellent)
Novelty of this manuscript	Grade B (Very Good)
Creativity or innovation of this manuscript	Grade B (Very Good)
Scientific significance of the conclusion in this manuscript	Grade A (Excellent)
Language quality	Grade A (Excellent)
Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	Yes
Does this manuscript report an unconventional innovation?	Yes
Conclusion	Minor revision
Re-review	No
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No
Are your review comments generated by AI tools?	

### **SPECIFIC COMMENTS TO AUTHORS**

This article comprehensively summarizes the bidirectional interaction between the gut and skin axis, and explores the pathogenesis and treatment of skin diseases from the perspective of the gut, which has certain clinical significance. However, there are also some minor issues in this article

1. Add some mechanism pictures for better understanding.
2. Please supplement the role of light and vitamin D between the two.



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**Peer-review model:** Single blind

**Reviewer's code:** 08133652

**Position:** Peer Reviewer

**Academic degree and professional title:** MD, PhD, Professor Emeritus

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

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

**Manuscript submission date:** 2025-04-27

**Reviewer chosen by:** Jia-Lin Zhang

**Reviewer accepted review:** 2025-05-14 15:23

**Reviewer performed review:** 2025-05-18 08:31

**Review time:** 3 Days and 17 Hours

<b>Content to be reviewed</b>	Does the manuscript's content fall within the scope of the journal? <b>Yes</b> Is there any Key Word that is not included in the manuscript title? <b>No</b> Do authors' affiliations correspond to the content of the manuscript? <b>Yes</b> Does the Abstract contain the contents of each part of the manuscript (IMRaD)? <b>Yes</b> Are the Key Words complete? <b>Yes</b> Is the content of the Introduction adequate? <b>Yes</b>
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Is the content of the Materials and Methods complete?

**Not Applicable**

Is the description of the experiments clear and complete? **Not Applicable**

Are the experimental data presented in the manuscript's biostatistics content reliable? **Not Applicable**

Are the experimental data of the Results true and reliable? **Not Applicable**

Are the quality and resolution of the images up to standard? **No**

Do the selection and design of the figures and tables follow the principles of necessity and clarity? **Yes**

Is there any duplication between various parts of the manuscript and between the main text and the content presented in the figures and tables? **No**

Are the figures and tables numbered consecutively in the order in which they appear in the manuscript? **Yes**

Is the content of the Discussion reasonable? **Yes**

Is the Conclusion reasonable? **Yes**

Are all references necessary and reasonable? **Yes**

Do authors omit important references? **No**

Are all references related to the topic of the manuscript? **Yes**

Do authors only cite their own earlier publications? **No**

Is the manuscript's text correct, concise, and clear? **Yes**

Will the manuscript's content be of interest to readers? **Yes**

Are additional experiments needed for the study? **No**

Does the research scope comply with ethics? **Not**



	<b>Applicable</b>
Scientific quality	Grade B (Very good)
Novelty of this manuscript	Grade C (Good)
Creativity or innovation of this manuscript	Grade C (Good)
Scientific significance of the conclusion in this manuscript	Grade B (Very Good)
Language quality	Grade A (Excellent)
Does this manuscript describe a study of the existing knowledge system?	No
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	No
Conclusion	Major revision
Re-review	No
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No
Are your review comments generated by AI tools?	

### SPECIFIC COMMENTS TO AUTHORS

This review assessed the skin-gut axis from different aspects, including immune modulation, systemic inflammation, and gut microbiota dynamics. The authors explains the skin manifestations of gut disorders according to these aspects. They discuss an important issue on the role of medicines targeting the microbiota on the gut and skin manifestations. There are few queries about this review:

Introduction



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1. This review looks like a narrative review, so add to the title "A narrative review"
2. Is there a similarity in the microbes species in the skin and gut? If there is no similarity then the assessment of GSA is based on the microbiota metabolites.
3. Dysbiosis is not restricted to the inflammatory bowel disease, but also in the irritable bowel disease (Gut dysfunction) and it also associated with a flare up of acne rosacea. It will be more attractive to add a paragraph that GSA have a role in both functional and pathological gut disorders
4. The objective of this review is clear

#### Understanding the Gut-Skin axis

1. Figure 1: It does not appear as a network and it is so brief. It requires more specifications and it will be nicely appeared as a network (because the term bidirectional is the hallmark of this review)
2. Add examples of dysbiosis metabolites that interfere with immunomodulation as a brief graph
1. Is there is a relation between a specific metabolite and specific skin lesion? P-cresol is associated with a specific skin lesion? Add a brief sentence.

#### Clinical Implications for Gastroenterologists

1. It will be highly attractive if summarize the types of skin lesions with their diseases as a diagram.
2. Please add the role of immunomodulation in each skin lesion as it appears with psoriasis "overlapping inflammatory pathways involving TNF- $\alpha$ , IL-23, IL-17, and IL-22"
1. Please clarify whether there is a significant difference in the skin manifestations between celiac diseases in children and adult type?

#### Microbiome and Skin disorders

No comments



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Role of Pro/Pre-biotics in GSA

No comments. It is so interesting.

Role of FMT in GSA

The subheading SLE, write it full term systemic lupus erythematosus

Emerging Insights on Gut-Skin axis

Please, use italic font on typing bacterial species

References

1. Recheck references no. 60, 85
2. About one-third of total references were published between 2020-2024. Please update the references to the accepted number