

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 81532

**Title:** Diabetic wounds and Artificial Intelligence: A mini-review

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

**Peer-review model:** Single blind

**Reviewer's code:** 04770380

**Position:** Editorial Board

**Academic degree:** DSc, PhD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2022-11-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-11-14 14:21

**Reviewer performed review:** 2022-11-23 16:41

**Review time:** 9 Days and 2 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled “Diabetic wounds and AI: A mini-review” focuses on discussion of literature data on the use of Artificial Intelligence (AI) technologies in diagnosis, prognosis, and treatment efficacy assessment of diabetic wound progression and healing. The topic is of interest to the journal audience. However, there are some concerns, which should be addressed to revise the manuscript before publication. Major concerns: 1. The manuscript is not well-organized and titles of subsections do not properly correspond to their content. For example, in the subsections “Impact of ai in diabetic wounds” and “Impact of ai in diabetic wounds” the authors discussed the principles of AI technologies. It is recommended to discuss this in a special subsection. 2. Literature data on diabetic wound characterization and image analysis with the use of AI should be discussed in more details. It would be useful if the authors discuss in short, the pathophysiology and clinical characteristics of diabetic wound progression. Additionally, it is recommended to discuss the phenomena of “loss of protective sensation (LOPS)” and “diabetic foot ulcers (DFUs)”. See, for discussion, doi: 10.1111/iwj.13603, doi: 10.1016/j.combiomed.2021.104596, and doi: 10.1021/acsami.2c08994, and other papers. Other concerns: 3. Tare many repeated and general statements such as “In recent years, AI has also a noticeable impact on diabetic wound care”, “Technology has evolved swiftly in last few decades casing astronomy to entertainment fields”, etc. 4. In the Introduction, the authors stated “This research is mainly focused on external diabetic wounds” – what was a rationale for that? 5. In Title, the abbreviation AI is used, however, in the Abstract, Introduction, and in the entire text, the authors do not use this abbreviation, multiple time exploiting the term “artificial intelligence”. 6. English language grammar requires checking and corrections.; there are

many mistakes such as “This manuscript analyze” (it should be “analyzes”), “One of the significant potential contribution” (it should be “contributions”), “As diabetic wounds comes’ (it should be “come”), etc.

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**Peer-review model:** Single blind

**Reviewer's code:** 06311365

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Dotor

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

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

**Manuscript submission date:** 2022-11-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-11-15 12:17

**Reviewer performed review:** 2022-11-24 17:06

**Review time:** 9 Days and 4 Hours

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



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statements

Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

This manuscript involves studies starting from AI in medical field and then in diabetic wounds. The literature review is limited however, author(s) might find many studies regarding diabetes and AI. My suggestion is to revise the overall literature review based on diabetes (not the whole healthcare) and then diabetic wounds and AI.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Academic degree:** DSc, PhD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2022-11-14

**Reviewer chosen by:** Ji-Hong Liu

**Reviewer accepted review:** 2022-12-15 14:52

**Reviewer performed review:** 2022-12-15 15:06

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

#### **SPECIFIC COMMENTS TO AUTHORS**

The authors have properly addressed all my recommendations.