

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Diabetes*

**Manuscript NO:** 71726

**Title:** Hemoglobin within normal range is negatively related to hemoglobin c in a nondiabetic American population aged 16 years and older

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

**Peer-review model:** Single blind

**Reviewer's code:** 03906428

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2021-09-19

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-09-19 14:08

**Reviewer performed review:** 2021-10-02 04:36

**Review time:** 12 Days and 14 Hours

<b>Scientific quality</b>	<input checked="" 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 type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Peer-reviewer  
statements**

Peer-Review: [☒] Anonymous [☐] Onymous

Conflicts-of-Interest: [☐] Yes [☒] No

## **SPECIFIC COMMENTS TO AUTHORS**

The article “Hemoglobin within the normal values is negatively related to hemoglobin A1C in non-diabetic American populations aged 16 years and older: data from the NHANES 1999-2018” was submitted for review. The abstract contains complete information about the research issues of the relationship between normal hemoglobin and hemoglobin A1C in nondiabetic American populations aged 16 and over. A large sample of non-diabetic American adults aged 16 years and older was evaluated to examine the relationship between Hb levels and HbA1c levels in the normal range. The results showed that hemoglobin levels independently and negatively correlated with HbA1c levels in both men and women. Appropriate, adequate statistical research methods were used. All results are well illustrated with figures and tables. A qualitative discussion of the results is given. The list of references contains 14 sources, including modern ones, the review is illustrated by 4 Tables and 6 Figures. Conclusion. The article can be accepted for publication without changes.

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

**Peer-review model:** Single blind

**Reviewer's code:** 05571689

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Consultant Physician-Scientist, Senior Editor, Senior Lecturer, Senior Researcher

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

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

**Manuscript submission date:** 2021-09-19

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-10-13 08:58

**Reviewer performed review:** 2021-10-13 09:24

**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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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 type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection

<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<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**

Well written study that deals with the relationship between hemoglobin and glycated hemoglobin in normal population. A negative relationship has been described (the lower the hemoglobin the higher the glycated hemoglobin), both well in the normal range. Which is the clinical significance of this? Introduction can be shortened and more focused on the topic of the study. I find figures 4 to 6 repetitive and useless; maybe only figure 6 published as supplemental material is enough. Discussion can also be shortened avoiding repeating similar concepts.