

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 77361

Title: Relationship between lipids and sleep apnea: based on Mendelian randomization analysis

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05430684

Position: Peer Reviewer

Academic degree: MD, MSc, PhD

Professional title: Chief Doctor

Reviewer's Country/Territory: Greece

Author's Country/Territory: China

Manuscript submission date: 2022-05-08

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-08 16:35

Reviewer performed review: 2022-05-10 17:52

Review time: 2 Days and 1 Hour

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 Grade E: Do not publish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 checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

I studied the manuscript entitled "Mendelian randomization analysis showed that there was no causal relationship between LDL, HDL, Triglyceride, Total cholesterol and Sleep apnea" by Zhang L et al. The study aims to investigate the potential relationship between lipids and sleep apnea by the use of Mendelian Randomization. The unfavourable cardiometabolic effects of sleep apnea are well established in the literature. However, the hypothesis that a vice versa correlation might be present, namely that (elevated) lipids could be somehow responsible for inducing sleep apnea is hardly supported by any known pathophysiological mechanism. Before considering publication, a few but crucial issues might be discussed with the authors: Major issue The authors are wellcome to present a hypothesis-driven core for their analysis in the last paragraph of the "Introduction" section. Minor issues 1) The language is poor and there are many syntax flaws throughout the text. 2) The Supplementary Figures dense and numerous, thus discouraging the average reader from studying them.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04740911

Position: Peer Reviewer

Academic degree: DSc, MD, MSc, PhD

Professional title: Assistant Professor, Research Scientist

Reviewer's Country/Territory: Poland

Author's Country/Territory: China

Manuscript submission date: 2022-05-08

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-06-15 05:50

Reviewer performed review: 2022-06-23 21:19

Review time: 8 Days and 15 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

The work "Mendelian randomization analysis showed that there was no causal relationship between LDL, HDL, Triglyceride, Total cholesterol and Sleep apnea" cover statistical analysis on relation for lipids and sleep penea. The title, abstract and key words reflect the main hypotesis. Background is well prepared I have some doubts for the methods as statistics - data analysis is based on "big data" it may lack real world sytuation, moreover we have no info about the OSA stage and clinical findings of the participants. Hovewer, authors wrote that in the context of low they investigated data, not participants, so in my clinical point of view it should be correlated with other parameters such as waist circumference or BMI - lipids accumulate in addipose tissue, thus in obese persos sleep apnea may be important. The discussion should be extended and conclusions are declarative and also should be extended. The figures are to small and can't be examined by rader.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Peer-review model: Single blind

Reviewer's code: 05430684

Position: Peer Reviewer

Academic degree: MD, MSc, PhD

Professional title: Chief Doctor

Reviewer's Country/Territory: Greece

Author's Country/Territory: China

Manuscript submission date: 2022-05-08

Reviewer chosen by: Ji-Hong Liu

Reviewer accepted review: 2022-07-27 21:13

Reviewer performed review: 2022-07-27 21:54

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 checked="" 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 type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

I re-reviewed the manuscript entitled "Relationship between lipids and sleep apnea: based on Mendelian randomization analysis" by Zhang L and Zhang X. Although the manuscript provides information concerning the relationship between lipid profile and sleep apnea, it is considered to fall short for the standards of World Journal of Clinical Cases.