

## PEER-REVIEW REPORT

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

**Manuscript NO:** 89662

**Title:** Effect of viral hepatitis on type 2 diabetes: A Mendelian randomization study

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

**Peer-review model:** Single blind

**Reviewer's code:** 02530641

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Professor, Research Fellow

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

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

**Manuscript submission date:** 2023-11-11

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-11-12 14:44

**Reviewer performed review:** 2023-11-12 15:27

**Review time:** 1 Hour

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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input 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

The manuscript "A Mendelian Randomization Study of the Effect of Viral Hepatitis on Type 2 Diabetes" by Yu YF et al. showed that there is a relationship between chronic hepatitis B and type 2 diabetes in East Asians. No further associations were detected. Abbreviations in the abstract CHB, CHC are not explained. "which helps early detect T2D induced by CHC-mediated other factors. " this is unclear, please rewrite. "direct-acting antiviral agent (DAA)," this has to be corrected. "Type 2 diabetes (T2D), Type 2 diabetes (T2D)," please delete one „diabetes mellitus" may be replaced by T2D data on HAV, HDV, and HEV have not to be mentioned because this was not analyzed in this study. Authors should discuss the role of obesity / metabolic syndrome in HBV / HCV.

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**Peer-review model:** Single blind

**Reviewer's code:** 00006518

**Position:** Peer Reviewer

**Academic degree:** MD, MHSc, PhD

**Professional title:** Associate Professor, Chief Doctor, Doctor

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

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

**Manuscript submission date:** 2023-11-11

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-11-12 06:56

**Reviewer performed review:** 2023-11-21 11:47

**Review time:** 9 Days and 4 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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<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 checked="" 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
<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 did a Mendelian randomization analysis on the causal relation between different types of viral hepatitis (VH) and type 2 diabetes (T2D) from the BioBank Japan Project, European Bioinformatics Institute, and FinnGen. They found no significant relationship between VH and T2D in Europeans. No significant causal association between chronic hepatitis C (CHC) and T2D, while a negative causal association between chronic hepatitis B (CHB) and T2D in East Asians. They concluded that CHB in East Asians is associated with reduced T2D risk and it is limited by HBV viral load and cirrhosis, while early detected T2D induced by CHC-mediated ‘other factors’ is still recommended. This study used a novel analysis method the literature had never been published but several issues still deserve further clarification in its current version. 1. HDV can progress to chronic liver disease, please modify it in the Introduction. 2. Since the European GWAS dataset did not contain CHB & CHC data, how can you conclude that no significant relationship was found between VH and T2D in Europeans? 3. Please address on what are the most significant differences between the current study and other published clinical articles on the causal relationship between CHC and T2D since many

hepatologists were convinced to accept the positive relation in this scenario.