

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Hepatology*

**Manuscript NO:** 75254

**Title:** Differential distribution of gene polymorphisms associated with hypercholesterolemia, hypertriglyceridemia, and hypoalphalipoproteinemia among Native American and Mestizo Mexicans

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

**Peer-review model:** Single blind

**Reviewer's code:** 05212434

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2022-01-21

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-02-15 11:50

**Reviewer performed review:** 2022-02-27 13:54

**Review time:** 12 Days and 2 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" 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 Grade E: Do not publish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 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



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<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**

In my opinion, the manuscript was prepared well, so I suggest accepting it in actual form. \*      The Introduction Section explains the design of the study. The Authors well justify the research topic. \*      The study was carried out without methodological errors. \*      The Descriptions of the results were correct. \*  
The presented figures and table were prepared precisely and also legible. \*      The Discussion Section includes the accurate reference of the results obtained to the studies of other studies. \*      The Conclusions were well formulated.

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**Peer-review model:** Single blind

**Reviewer's code:** 02623966

**Position:** Editorial Board

**Academic degree:** MD, MSc, PhD

**Professional title:** Attending Doctor, Research Scientist

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

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

**Manuscript submission date:** 2022-01-21

**Reviewer chosen by:** Dong-Mei Wang

**Reviewer accepted review:** 2022-04-27 16:22

**Reviewer performed review:** 2022-04-27 16:23

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" 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 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
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<b>Re-review</b>	[ <input checked="" type="checkbox"/> ] Yes [ <input type="checkbox"/> ] No
<b>Peer-reviewer statements</b>	Peer-Review: [ <input type="checkbox"/> ] Anonymous [ <input checked="" type="checkbox"/> ] Onymous Conflicts-of-Interest: [ <input type="checkbox"/> ] Yes [ <input checked="" type="checkbox"/> ] No

### **SPECIFIC COMMENTS TO AUTHORS**

It is a well-design study adding new information to the literature. According to my knowledge, it is a novel paper in its field opening new horizons for further evidence. Authors, succeed to present their findings in a clear way. In addition, the object as well as the results are appropriately discussed in the context of previous literature explaining the importance of the manuscript in its field. Authors succeed to present their data in a clear way adding information to the existing literature. Therefore, I have no corrections or further work to propose for the improvement of the manuscript and therefore it can be published unaltered.

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**Peer-review model:** Single blind

**Reviewer's code:** 06008175

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor

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

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

**Manuscript submission date:** 2022-01-21

**Reviewer chosen by:** Dong-Mei Wang

**Reviewer accepted review:** 2022-04-28 01:45

**Reviewer performed review:** 2022-05-06 00:41

**Review time:** 7 Days and 22 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 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

Torres-Valadez et al. investigated differential distribution of gene polymorphisms associated with hypercholesterolemia, hypertriglyceridemia, and hypoalphalipoproteinemia among Native American and Mestizo Mexicans. Although the topic may be important to investigate, Reviewer noted several concerns. This manuscript may be better suited for Journals related to lipidology or genetics instead of hepatology. Page 2 Reviewer agreed the author's statement "Regional personalized medicine strategies considering the host's genetic and environmental factors are required to mitigate the prevalence of dyslipidemias" if the patients responded poorly to treatment. Regardless of the genetic background, treatment will be same, i.e., diet, exercise, and medication. The genetic background test is expensive and take time. In Table 3, some genetic data are missing. They are required to discuss heterogeneity of genetic background in different ancestors. What is "normal weight individuals"? In Table 4-7, authors showed results from "normal weight" GDL. Please clarify the reason why authors investigate "normal weight" GDL. It will be much more attractive if authors showed the comparison of these data among NA and MTZ. If authors showed complete data, now authors can describe "Regional primary health care strategies are required to mitigate their prevalence considering the regional genetic and cultural characteristics, which could have important implications for personalized medicine within the new era of precision medicine" in CONCLUSION. Page 8 In Table 1, average ages among groups looked very different to Reviewer. Although authors stated, "All the groups had excess weight, but the MTZ groups from GDL and TPC had

the highest BMI of all the groups ( $33.8 \pm 10.3$  kg/m<sup>2</sup> and  $28.3 \pm 4.7$  kg/m<sup>2</sup>, respectively,  $p=8 \times 10^{-27}$ )", BMI of CUQ was 28.6 and higher than TPC. This is not appropriate expression since highest BMI was from GDL. Page 9 Although authors stated, "On the other hand, the NAH group showed lower levels of HDL-c than those from CUQ and WXX groups ( $p=0.011$ )", HDL-C from SMA was lowest. More detailed description for statistics analyses for Table 5 and 6 is required. When compared frequencies of apoB and LDLR genotypes of HChol in Table 5 and 6, they looked different. Please clarify. Page 10 Authors stated in Results "Also, both genotypes, TT of APOB and GG of LDLR were associated as independent risk factors for HChol (OR=5.33, 95%CI:1.537-18.502,  $p=0.008$ , & OR=3.90 95%CI: 1.042-14.583,  $p=0.043$ , respectively) (Table 6)." Please clarify why authors can state "independent risk factors".

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Reviewer's code:** 02623966

**Position:** Editorial Board

**Academic degree:** MD, MSc, PhD

**Professional title:** Attending Doctor, Research Scientist

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

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

**Manuscript submission date:** 2022-01-21

**Reviewer chosen by:** Han Zhang

**Reviewer accepted review:** 2022-06-26 15:37

**Reviewer performed review:** 2022-06-26 15:37

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" 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 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





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<b>Peer-reviewer statements</b>	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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**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2022-01-21

**Reviewer chosen by:** Han Zhang

**Reviewer accepted review:** 2022-06-28 15:14

**Reviewer performed review:** 2022-06-28 15:16

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" 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
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**Peer-reviewer  
statements**

Peer-Review: ☒ Anonymous ☐ Onymous

Conflicts-of-Interest: ☐ Yes ☒ No

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

All changes have been implemented. I recommend accepting the manuscript.