

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 80426

**Title:** Bone loss in chronic liver diseases: Could healthy liver be a requirement for good bone health?

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

**Peer-review model:** Single blind

**Reviewer's code:** 02445854

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Doctor, Research Assistant Professor

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

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

**Manuscript submission date:** 2022-09-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-10-04 15:38

**Reviewer performed review:** 2022-10-05 07:51

**Review time:** 16 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 Grade E: Do not publish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 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 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 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 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
<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

This review is of interest for the clinicians. These are my comments: -More details must be given about the diagnostic tools available for the diagnosis of osteoporosis or osteopenia. For instance, in the section "Osteodensitometry findings in CLD patients" none information is given about the technique(s) used to assess it. The same applies to "Bone turnover biomarkers": what are these biomarkers and what is the tool used to assess them? The same for "assessments of micro-scale bone properties in CLD individuals". Some information is given in the figure but a reader that is not familiar with them will get confused, therefore some of the value of this review will be lost.

-All abbreviations must be spelled out at their first mention -The English needs to be revised by a native English speaker.

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**Reviewer's code:** 00005258

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Director, Doctor, Professor

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

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

**Manuscript submission date:** 2022-09-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-10-13 06:46

**Reviewer performed review:** 2022-10-13 09:28

**Review time:** 2 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 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 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 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 checked="" type="checkbox"/> Accept (General priority) <input 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

Secondary osteoporosis and increased bone fragility are frequently overlooked complications in patients with chronic liver disease (CLD). Recent studies indicated that CLD-induced bone fragility depended on the etiology, duration, and stage of liver disease. In this manuscript, the authors reviewed and discussed the osteodensitometry findings, bone turnover biomarkers, and the assessments of micro-scale bone properties in CLD patients, and the molecular mechanisms involved in the etiopathogenesis of CLD-induced bone loss. The authors concluded that the bone strength could be compromised in CLD individuals, and that an individualized approach to fracture risk assessment and subsequent therapy is necessary for these patients. This is a comprehensive review on the secondary osteoporosis and increased bone fragility in patients with chronic liver disease. The manuscript was well prepared. In this article, the authors present an overview regarding the assessments of osteoporosis and bone fragility in CLD patients, and the molecular mechanisms involved in CLD-induced bone loss. Thus, this review provided useful information to the clinicians to manage CLD patients with bone loss.

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**Peer-review model:** Single blind

**Reviewer's code:** 03477847

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Associate Professor

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

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

**Manuscript submission date:** 2022-09-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-10-12 15:50

**Reviewer performed review:** 2022-10-17 21:05

**Review time:** 5 Days and 5 Hours

Scientific quality	<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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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<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>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 authors have discussed in detail a subject that is not emphasized much in practical life, but is very important. The subject has been examined in order until the beginning and conclusion of the article, enriched with figures. Other than a few typos, I have no further suggestions. Congratulations to the authors.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Academic degree:** MD

**Professional title:** Doctor, Research Assistant Professor

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

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

**Manuscript submission date:** 2022-09-27

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2022-12-02 02:01

**Reviewer performed review:** 2022-12-02 02:21

**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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<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**

no other comment.