

PEER-REVIEW REPORT

Name of journal: *World Journal of Hepatology*

Manuscript NO: 70822

Title: Prevalence of Hypothyroidism and Effect of Thyroid Hormone Replacement Therapy in Patients with Non-alcoholic Fatty Liver Disease: A Population-based Study and Review of Literature.

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05270042

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Viet Nam

Author's Country/Territory: United States

Manuscript submission date: 2021-08-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-09-13 02:25

Reviewer performed review: 2021-09-21 02:49

Review time: 8 Days

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 Grade E: Do not publish
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



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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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 is a compilation of many studies with a very large number of patients. It is very valuable. However, some details need to be clarified: 1. Is hypothyroidism a risk factor leading to NAFLD? Or does persistent NAFLD cause hypothyroidism? 2. Why doesn't thyroid hormone replacement therapy for hypothyroidism improve the risk of NAFLD? 3. The degree of hypothyroidism should be categorized. What degree is the risk factor for NAFLD? 4. How long does the treatment hypothyroidism take to reduce the risk of NAFLD effectively? 5. Each patient group should be analyzed such as obesity, T2DM, DLP, HTN. Which group of patients is more related to hypothyroidism?

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Peer-review model: Single blind

Reviewer's code: 05145460

Position: Editorial Board

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2021-08-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-09-13 00:43

Reviewer performed review: 2021-09-26 12:46

Review time: 13 Days and 12 Hours

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
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Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	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

Thank you for this work. The authors aimed to investigate the prevalence of hypothyroidism in patients with NAFLD. Above all, the topic the authors are trying to address in this paper is too cliché and described in other papers (PMID: 28181781, PMID: 31153607, PMID: 32824723). My main problem remains the lack of novelty of this study.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's code: 05270042

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Viet Nam

Author's Country/Territory: United States

Manuscript submission date: 2021-08-16

Reviewer chosen by: Han Zhang (Online Science Editor)

Reviewer accepted review: 2022-01-21 13:15

Reviewer performed review: 2022-01-22 09:57

Review time: 20 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection



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**Peer-reviewer
statements**

Peer-Review: ☒ Anonymous ☐ Onymous

Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

I agree with authors' answers.