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## PEER-REVIEW REPORT

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

**Manuscript NO:** 85011

**Title:** A review of noninvasive prognostic models, imaging, and elastography to predict clinical events in primary sclerosing cholangitis

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

**Peer-review model:** Single blind

**Reviewer's code:** 03699990

**Position:** Editorial Board

**Academic degree:** MD, PhD

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

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

**Author's Country/Territory:** United States

**Manuscript submission date:** 2023-04-07

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

**Reviewer accepted review:** 2023-05-15 02:48

**Reviewer performed review:** 2023-05-24 05:41

**Review time:** 9 Days and 2 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 Grade E: Do not publish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 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 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 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 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 author reviewed the reports on non-invasive prediction of clinical event study in primary sclerosing cholangitis (PSC), including prognostic models, MR imaging, elastography, etc. The role of systematically organizing the research results involved in relevant clinical studies in evaluating the prognosis of PSC: Compared to Mayo Risk Score (MRS), the UK-PSC score has superior testing performance in short-term and long-term transplant free survival; The Primary Sclerosis Risk Assessment Tool (PREsTo) has good testing performance for the risk of liver decompensation; The Amsterdam Oxford model includes patients with overlapping small catheter PSC and PSC autoimmune hepatitis; Elastic imaging and magnetic resonance imaging are expected to become prognostic tools. There are some improvements as following. There are many abbreviations in the manuscript. The conventional way of expression when first appearing is the original text (abbreviation). Some abbreviations in this paper are not expressed according to the above stated.



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**Peer-review model:** Single blind

**Reviewer's code:** 05770409

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

**Author's Country/Territory:** United States

**Manuscript submission date:** 2023-04-07

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

**Reviewer accepted review:** 2023-06-17 12:24

**Reviewer performed review:** 2023-06-21 14:04

**Review time:** 4 Days and 1 Hour

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 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



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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 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 author reviewed of noninvasive prognostic models, imaging, and elastography to predict clinical events in primary sclerosing cholangitis. The Mayo risk score incorporates noninvasive variables and has served as a surrogate endpoint for survival, but newer models, including the primary sclerosing risk estimate tool model and UK-PSC score have better test performance than the Mayo risk score. The Amsterdam-Oxford model included patients with large duct and small duct PSC and patients with PSC-autoimmune hepatitis overlap. Other noninvasive tests include MRI, elastography and the enhanced liver fibrosis score warrant further validation. Prognostic models and noninvasive tests serve to inform patients about their prognosis and serve to be useful in clinical trials of investigational agents so accept this paper for publication.