



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 52466

Title: Serum N-glycan markers for diagnosing liver fibrosis induced by hepatitis B virus

Reviewer's code: 03537407

Position: Peer Reviewer

Academic degree: MD

Professional title: Postdoc

Reviewer's country: Germany

Author's country: China

Manuscript submission date: 2019-11-05

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-11-05 08:26

Reviewer performed review: 2019-11-05 09:49

Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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In this article, the authors describe a new diagnostic model on HBV-related liver fibrosis based on serum N-glycan analysis. Their data show good diagnostic accuracy especially in early stages of fibrosis, where other serum based markers show a weaker performance. As esp the surveillance of patients at risk is an urgent problem, this approach could provide a new way to have closer monitoring of respective patients, while other methods may be superior only in later stages of fibrosis development. Some minor points should be addressed: - please add a figure with coloured overlays of the peakds in Fig 1. This would make the differences in the peaks clearer. - add significances to tables 1 and 2 (this might then spare table 3) or provide a matrix like presentation of the significances. - language needs correction

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- The same title
- Duplicate publication
- Plagiarism
- No

BPG Search:

- The same title
- Duplicate publication
- Plagiarism
- No



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 52466

Title: Serum N-glycan markers for diagnosing liver fibrosis induced by hepatitis B virus

Reviewer's code: 03537043

Position: Peer Reviewer

Academic degree: PhD

Professional title: Doctor

Reviewer's country: Poland

Author's country: China

Manuscript submission date: 2019-11-05

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-11-05 08:51

Reviewer performed review: 2019-11-19 08:33

Review time: 13 Days and 23 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

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In the study Xi Cao et al titled "Serum N-glycan markers for diagnosing liver fibrosis induced by hepatitis B virus" authors found that multiparameter models based on serum N-glycans are effective supplement markers to distinguish between adjacent fibrosis stages of HBV infected HBV, especially in combination with ALT and PLT. The paper makes original contribution. The results of this study were novel to previous literatures regarding the relationship between serum N-glycans and liver fibrosis stages by construction multiparameter diagnostic models based on N-glycan peak 1, 3, 4, 8. The manuscript is well organized and the abstract represent the content of the paper. Screening for construction multiparameter diagnostic models between fibrosis stages groups was performed on sufficient number of patients, therefore the results obtained should not be approached with caution The authors used a validation group to validate their results, in which the obtained results were confirmed. This confirmation should be expected by other research teams. The description of the methods used and the results obtained is appropriate. The research methods used allow the authors to draw conclusions about the strong diagnostic power of diagnostic models based on N-glycan peak 1, 3, 4, 8 to distinguish between different stages of liver fibrosis in HBV-infected patients. Comments: 1. Since the diagnostic model was based on logistic regression, please attach logistic regression results for each model including all variables that were part of the model (supplement). 2. Is the activity of inflammatory liver was known. Please include this information in the patient characteristic. 3. Figure 2. Please mark individual graphs (A, B, C). 4. Supplementary table 2. Please verify fibrosis stages for Model B + ALT + PLT (F2 vs F3-F4?) and add the footnotes to the table.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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