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PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 38812

Title: Progression and status of antiviral monitor in patients with CHB: From HBsAg to HBV RNA

Reviewer's code: 00030603

Reviewer's country: Greece

Science editor: Xue-Jiao Wang

Date sent for review: 2018-03-20

Date reviewed: 2018-03-27

Review time: 7 Days

| 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 checked="" 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

No comments

INITIAL REVIEW OF THE MANUSCRIPT



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PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 38812

Title: Progression and status of antiviral monitor in patients with CHB: From HBsAg to HBV RNA

Reviewer's code: 02527569

Reviewer's country: Japan

Science editor: Xue-Jiao Wang

Date sent for review: 2018-03-20

Date reviewed: 2018-03-29

Review time: 9 Days

| SCIENTIFIC QUALITY | LANGUAGE QUALITY | CONCLUSION | PEER-REVIEWER STATEMENTS |
|--|--|--|---|
| <input type="checkbox"/> Grade A: Excellent | <input checked="" type="checkbox"/> Grade A: Priority publishing | <input type="checkbox"/> Accept | Peer-Review: |
| <input checked="" type="checkbox"/> Grade B: Very good | <input 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 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

This is a nice review. I hope that one summarized figure should be included.

INITIAL REVIEW OF THE MANUSCRIPT



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PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 38812

Title: Progression and status of antiviral monitor in patients with CHB: From HBsAg to HBV RNA

Reviewer's code: 02996674

Reviewer's country: Japan

Science editor: Xue-Jiao Wang

Date sent for review: 2018-03-20

Date reviewed: 2018-04-04

Review time: 15 Days

| 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: |
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| | | | <input type="checkbox"/> No expertise |
| | | | Conflicts-of-Interest: |
| | | | <input type="checkbox"/> Yes |
| | | | <input type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

The review paper entitled 'Progression and Status of Antiviral Monitor in Patients with CHB: From HBsAg to HBV RNA.' Is interesting and following current trend. However, there is a major basic question. Major The quantity of serum HBsAg is widely



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measured with established method. However, detection of HBV RNA is not easy, and the result is unstable. Thus, detection of HBV RNA is performed in only a few specific research labs. In addition, the quantity of HBV RNA in serum is very small, and the sensitivity of HBV RNA is low. Thus, HBV RNA is not widely accepted as a bio-marker of HBV cccDNA activity. Please make reference to HBcrAg or other candidates as a marker of HBV cccDNA activity. (for example; Distinct patterns of serum hepatitis B core-related antigen during the natural history of chronic hepatitis B. Zhang ZQ, Zhang XN, Lu W, Wang YB, Weng QC, Feng YL. BMC Gastroenterol. 2017 Dec 4;17(1):140. doi: 10.1186/s12876-017-0703-9. Etc.) Minor As the author described that a part of HBsAg comes from integrated HBV DNA fragment. Please show the evidence that a part of HBsAg comes from integrated HBV DNA fragment. Please add reference articles.

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