

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 75014

Title: Insights into induction of the immune response by the hepatitis B vaccine

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05242921

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Lecturer

Reviewer's Country/Territory: India

Author's Country/Territory: Argentina

Manuscript submission date: 2022-01-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-12 05:38

Reviewer performed review: 2022-02-23 17:41

Review time: 11 Days and 12 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

overall the manuscript is well written. please correct grammar of manuscript by using grammar correction software like grammarly.

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Peer-review model: Single blind

Reviewer's code: 02539106

Position: Peer Reviewer

Academic degree: FRCS (Gen Surg), MD, MSc, PhD

Professional title: Assistant Professor, Doctor, Research Scientist, Teacher

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: Argentina

Manuscript submission date: 2022-01-16

Reviewer chosen by: Jia-Qi Zhu

Reviewer accepted review: 2022-04-17 16:19

Reviewer performed review: 2022-04-23 01:00

Review time: 5 Days and 8 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
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Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is a mini review article on hepatitis B vaccine efficacy in inducing protective immunity against hepatitis B. Briefly, this manuscript is well written. There was some points I would suggest to add information regarding Page 5 and Figure 2. Taiwan is the paradigm of the HBV vaccination impact on the control of hepatitis. It was the first country to implement the HBV vaccine schedules in 1984 and, after 30 years of sustained vaccination, the prevalence of HBsAg has decreased from 9.8% in the pre-vaccinated period to 0.5% in the cohort reached by HBV immunization protocols [14]. I would suggest to add: The main reason for Taiwan's success was their high 3-doses hepatitis infant vaccine coverage rate, which increased from 88.9 percent in 1985 [A, B] to 98.1 percent in 2018 [C]. As there is no data in Figure 2 in delineating 3-doses infant HB vaccine coverage rate in Taiwan. That's not exact. Please add the below references: A. Gust ID. Immunisation against hepatitis B in Taiwan. Gut. 1996;38 Suppl 2(Suppl 2):S67-8. doi: 10.1136/gut.38.suppl_2.s67. PMID: 8786059; PMCID: PMC1398048. B. Chien YC, Jan CF, Kuo HS, Chen CJ. Nationwide hepatitis B vaccination program in Taiwan: effectiveness in the 20 years after it was launched. Epidemiol Rev. 2006;28:126-35. doi: 10.1093/epirev/mxj010. Epub 2006 Jun 16. PMID: 16782778. C. Lu FT, Ni YH. Elimination of Mother-to-Infant Transmission of Hepatitis B Virus: 35 Years of Experience. Pediatr Gastroenterol Hepatol Nutr. 2020 Jul;23(4):311-318. doi: 10.5223/pghn.2020.23.4.311. Epub 2020 Jul 3. PMID: 32704492; PMCID: PMC7354867. Regarding the different generation types of hepatitis B vaccines, the authors may also do a more detailed review on the differences over the HBsAg+, anti-HBs+, as well as anti-HBc+ seroepidemiology descriptions on this mini review. For example: Higher disappearance rate of anti-HBs was noted in recombinant group than in plasma group

when the subjects reached their youth and young adulthood in Taiwan. Reference: Hsu SH, Chih AH, Lee YC, Huang KC, Jan CF. Higher disappearance rate of anti-HBs in Taiwanese freshers neonatally vaccinated with recombinant yeast hepatitis B vaccine. *Liver Int.* 2017 Dec;37(12):1780-1787. doi: 10.1111/liv.13437. Epub 2017 Apr 27. PMID: 28374906.

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Peer-review model: Single blind

Reviewer's code: 05040484

Position: Editorial Board

Academic degree: MD, PhD

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

Reviewer's Country/Territory: Russia

Author's Country/Territory: Argentina

Manuscript submission date: 2022-01-16

Reviewer chosen by: Jia-Qi Zhu

Reviewer accepted review: 2022-04-17 07:26

Reviewer performed review: 2022-04-27 14:06

Review time: 10 Days and 6 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
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Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is an interesting mini-review, but I have a few comments: 1) the clinical effectiveness of vaccination (how different the frequency of hepatitis B infection in the vaccinated and unvaccinated groups) should be described, if the data are available; 2) the mechanism of development of the immunity against HBV after vaccination should be described; 3) The first sentence of the paragraph describing vaccination in Taiwan is not clear.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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

Reviewer's Country/Territory: Russia

Author's Country/Territory: Argentina

Manuscript submission date: 2022-01-16

Reviewer chosen by: Kai-Le Chang

Reviewer accepted review: 2022-05-26 07:19

Reviewer performed review: 2022-05-26 07:25

Review time: 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
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
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



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SPECIFIC COMMENTS TO AUTHORS

No comments