



PEER-REVIEW REPORT

Name of journal: *World Journal of Experimental Medicine*

Manuscript NO: 95960

Title: Exploring the impact of Hepatitis B Immunoglobulin and antiviral interventions to reduce vertical transmission of Hepatitis B Virus

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05195752

Position: Peer Reviewer

Academic degree: PhD

Professional title: Director

Reviewer's Country/Territory: India

Author's Country/Territory: Indonesia

Manuscript submission date: 2024-04-23

Reviewer chosen by: Jia-Lin Zhang

Reviewer accepted review: 2024-07-25 08:25

Reviewer performed review: 2024-07-25 18:58

Review time: 10 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 Grade E: Do not publish
Novelty 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 novelty
Creativity or innovation 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 creativity or innovation



Scientific significance of the conclusion in 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 scientific significance
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
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Strengths The manuscript provides evidence-based recommendations for reducing mother-to-child transmission (MTCT) of HBV, including screening, antiviral prophylaxis, and immunoprophylaxis. Example, Antiviral therapy, particularly with tenofovir disoproxil fumarate (TDF), has been a cornerstone in reducing HBV MTCT, which are included in the manuscript. These recommendations are supported by references to recent studies and guidelines. The manuscript includes up-to-date statistics and data on HBV prevalence and the impact of chronic HBV infection globally and specifically in the Asia-Pacific region. This enhances the relevance and timeliness of the information presented. The manuscript is well-structured, with clear sections dedicated to different aspects of HBV transmission and prevention, including prenatal, perinatal, and postnatal transmission routes. This organization helps readers follow the progression of information logically. Highlighting regional variations in HBV prevalence and transmission, particularly in the Asia-Pacific region, underscores the need for tailored public health strategies and interventions.

Area for improvement The manuscript provides a fair overview of HBV vertical transmission, with recent prevalence data.



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: office@baishideng.com
https://www.wjgnet.com

However, since the topic already has extensive studies and has various attempts of ongoing preventive strategies across geographies; more insight should be included on implementation challenges and effectiveness. In addition, successful health practices proven in reducing the HBV vertical transmission may be included from developed nations to bring larger perspective. Challenges in adopting such steps may be included as well, to inform of various healthcare investments required for actually preventing the mother to child HBV transmission. The recent approaches in the area of immediate infant immunization may be included. The "immediate immunization next to bedside" strategy, where infants receive HepB-BD and HBIG within the delivery room, has reportedly shown significant efficacy in preventing HBV transmission. Abbreviations required to be corrected ex. Full form of ART. Although HBV transmission mechanisms is detailed out nicely, it could be simplified for better readability. The manuscript does mentions challenges in the distribution of antiviral prophylaxis and immunoprophylaxis, however does not deeply discuss the into potential solutions/ strategies to overcome these barriers. Inclusion of these shall provide a future looking prospective and better inform the policymakers and scientific community. Identify gaps in current research and suggest areas where further studies are needed, such as the long-term effects of antiviral prophylaxis initiated during pregnancy. A thorough proofreading is needed to correct minor grammatical errors and improve the overall flow of the text. Ensure that all sentences are grammatically correct and that the text flows smoothly from one section to the next. While the focus on the Asia-Pacific region is important, incorporating more information about HBV transmission and prevention efforts in other parts of the world can provide a more comprehensive global perspective. Example: Include data and examples from Africa, Europe, and the Americas to provide a broader context for the issue of HBV vertical transmission. Overall, the manuscript provides a detailed and informative exploration of HBV transmission and prevention. By improving clarity,



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA

Telephone: +1-925-399-1568

E-mail: office@baishideng.com

https://www.wjgnet.com

consistency, and depth in certain areas, and by incorporating more global perspectives, the manuscript can be further strengthened to effectively convey its themed message of prevention of vertical transmission of HBV. Inclusion of above shall strengthen the manuscript and will add more value to the scientific community.