



# Evaluating the Effectiveness of Hepatitis-B Vaccine: A Systematic Literature Review

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**Keywords:** Hepatitis B, Effectiveness, Vaccine, Vaccination.

**Abstract:** Hepatitis B virus (HBV) infection is a significant threat to the global health system, especially in Indonesia. In Southeast Asia, Indonesia is ranked 2nd for hepatitis B cases. The high prevalence of HBV cases in Indonesia is partly due to transmission from pregnant women to their babies due to lack of knowledge and economic status. Although the national program to prevent HBV transmission has been conducted with Early Detection of Hepatitis B (DDHB) using rapid diagnostic test (RDT) and hepatitis B surface antigen (HBsAg), the high number of HBV cases is a challenge for the national health system. A systematic review was conducted to assess the effectiveness of hepatitis B vaccination in newborns with three doses of HB1, HB2, and HB3. The study was conducted by searching published journals accessed through Pubmed, ProQuest, and Cochrane Library databases. Based on the results of the systematic review, 8 related articles were obtained. The vaccination program in Indonesia is still relatively low, so the role of health workers is important in increasing vaccination compliance rates in Indonesia, one of which is by conducting routine vaccinations for newborns and giving booster vaccines to prevent virus transmission, especially hepatitis B.

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## Declarations

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### Conflict of Interest

The authors declare no conflicting interest.

### Data Availability

Tersedia

### Ethics Statement

tidak menggunakan

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