

Original Paper

Comparison of protective antibody level against hepatitis B in accelerated and conventional vaccination

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Abstract

Background and Objective: The vaccination against hepatitis B is a front line defence for all at-risk groups. Conventional methods of hepatitis B vaccination (0, 1 and 6 months) is considered a long process. But vaccination at shorter intervals (0, 10 and 21 days) is suggested to achieve rapid immunity. This study was carried out to compare for the protective antibody level against hepatitis B in accelerated and conventional vaccination.

Materials and Methods: In this descriptive and analytical study 160 health personnel of Imam Reza hospital of Kermanshah, Iran with no history of vaccination against hepatitis B were selected and divided into two groups during 2009. The volunteers were received vaccination according to accelerated (0, 10 and 21 days) and conventional (0, 1 and 6 months) methods. The antibody titer measured two years after the final dose of vaccination. The acceptable level of antibody was considered higher than 10 IU/ml.

Results: After two years the acceptable level of antibody was observed in 94.5% and 97.9% of subjects in accelerated and conventional methods, respectively. This difference was not significant.

Conclusion: This study showed that there is not significant differences between accelerated and conventional methods in antibody production against hepatitis B antigen.

Keywords: Hepatitis B, Vaccination, Accelerated Vaccination, Conventional vaccination

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