Vaccination of hepatitis B in healthy adults: Effect of sex and age, two protocols of revaccination in non-responders

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Aim: Aim of this study is to assess in non vaccinated healthy adults, the response to the standard protocol SP of vaccination for hepatitis B (0, 1, 6 months), and the response to two booster protocols in Non-Responders (NR).

Methods: 192 adults with mean age of 44.3 have received Engerix® B 20 µg/1 ml by the SP. The non-responders (anti-Hbs antibodies <10UI/l) were divided into two groups. The first group (P1) received a single booster (R1) four months after the SP, and those who remained non-responders received a double booster (R1b) two years after the SP. The second group (P2) received a unique double booster (R2), two years after the SP.

Results: The rate of response after the SP is 75.5% (145/192). 28 NR in P1 have a response rate of 32.14% (9/28). The 19 NR in R1b have a response of 36.84% (7/19). 19 NR in P2 have a response of 63.16% (12/19). 9.9% (19/192) of individuals don't respond to any booster. The rate of response decreases with the age (5% every year and 41% every 10 years). For the same age, men are two fold more responders than women.

Conclusion: A unique double booster done two years after the SP gives a better response than a single booster done after four months, and a similar response to a single booster done after four months followed by a double booster done after two years. The female gender and the age are two factors that decrease the response to the vaccination.

Biography
Jacques Choucair completed his MD degree in 1994 from Saint-Joseph University, Faculty of Medicine in Beyrouth. Since May 2001, he is a Practitioner and ID Consultant in the Infectious Diseases department at Hôtel Dieu de France de Beyrouth Teaching Hospital. He has published more than 20 articles and is a Reviewer of many national and international journals. His main topics of research interest are bacterial resistance and the proper use of antibiotics. He is a member in the Arab Association for the Proper Use of Antibiotics and member of ESCMID.

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