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## 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<sup>®</sup> 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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