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## The observation of the immunization effect of hepatitis B vaccine to the newborn with HBeAg positive

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Using the same dose of hepatitis B vaccine, HBsAg negative and HBeAg-positive newborns can produce higher and more sustained amount of anti-HBs than HBeAg-negative newborns birthed by HBV infected mothers, suggesting the effect of the presence of HBeAg and hepatitis B vaccine simultaneously on the anti-HBs is worth to discuss. With the approval of the ethical argument, we observed 460 cases of hepatitis B virus carriers (HBVDNA≥106), the venous blood detection of HBsAg of all the newborns were negative within 2 hours of birth, 234 HBeAg negative cases of experimental group at birth quantitative M (P25, P75) was 48000 (23.875, 86.050), 226 cases of control group was HBeAg-negative. Both groups were injected with hepatitis B immune globulin 200 IU within 6 hours after birth , and 10µg hepatitis B vaccine immunization at 0, 1, 6 months. When they are 2 years old, the anti-HBs detection M (P25, P75) of study group was 456.850 (312.900, 652.325), the control group M (P25, P75) was 149.800 (65.300, 343.400). Statistically, Z=-9.963, p<0.01. When they are 5 years old, detection of anti-HBs group M (P25, P75) was 612.600 (366.025, 982.550) and control group M (P25, P75) was 215.00 (51.05, 478.15). Statistically, Z=-8.260, P<0.01. Both groups were HBsAg negative. Concluded that the presence of serum HBeAg in newborns may be more sensitive to immune response of hepatitis B vaccine may increase the immunogenicity of hepatitis B vaccine.

Keywords: HBeAg-positive, newborns, immune effect

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