AN OVERVIEW OF THE SPLEEN AND LEUCOCYTE MALE RABBIT (*Oryctolagus cuniculus*) AFTER SINGLE-DOSE HEPATITIS B VACCINATION

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ABSTRACT

This study aims were to determine the change of splenic index, total and differential count of leucocyte in male rabbit (*Oryctolagus cuniculus*) vaccinated by single dose of type 1, type 2 and type 3 hepatitis B vaccine. Twelve male rabbits were devided into 4 groups. Group 1 (P0) as control, group 2 (P1) as treatment 1, group 3 (P2) as treatment 2, and group 4 (P3) as treatment 3. Control group were injected by PBS, treatment 1 group were vaccinated by type 1 of hepatitis B vaccine, treatment 2 group were vaccinated by type 2 of hepatitis B vaccine, and treatment 3 group were vaccinated by type 3 of hepatitis B vaccine. Two weeks after treatment rabbits were weighed, anesthetized, and dissected to collect of spleen organs and whole blood. Spleen organs were removed, weighed and the ratio of spleen weight in mg/rabbit to body weight in g/rabbit was calculated and expressed as splenic index. Whole blood was collected via intracardial and then analyzed by hematology analyzer. Data was statistically analyzed by One Way ANOVA (Analysis of Variance) and continued with Duncan alpha test. One Way ANOVA and Duncan alpha test showed that there were non significantly different between groups ($p>0.05$).

Key words: Hepatitis B vaccine, rabbit (*Oryctolagus cuniculus*), spleen, leucocyte, single-dose.