TOTAL VALUE AND DIFFERENTIAL COUNTING OF LEUCOCYTE AS CELLULAR IMMUNE RESPONSES OF MALE WHITE RATS (Rattus norvegicus) AFTER INJECTED WITH VACCINE HEPATITIS B FORMULA BY BOOSTER METHOD

Fariz Rozianwar

ABSTRACT

This study aims to determine the effect of Hepatitis B vaccine with different formulas towards the changes of total value and leucocyte differential counting as cellular response of male white rat (Rattus norvegicus). The amount of 20 male white rats were randomly divided into 4 treatment groups. Group P0 (Controls) which given 0.4 ml of PBS solution by IM, Group P1 (0.4 ml of Hepatitis B vaccine formula type 1 by IM), group P2 (0.4 ml of Hepatitis B vaccine formula type 2 by IM), and group P3 (0.4 ml of Hepatitis B vaccine formula type 3 by IM). Treatment given on day 0, 30, and 60 after adaptation for 7 days, then on day 75 performed anesthesia to take whole blood by intracardiac in male white rats. Based on the results used SPSS 22 for windows the method used is statistical parametric one way analysis of variance (ANOVA) and continued with multiple comparison tukey post hoc test. In the ANOVA test, showing that the probability value (Sig.)> 0.05, thus H0 was accepted, or there was no significant difference between control and treatment group.

Key words: Hepatitis B vaccine formula, male white rat (Rattus norvegicus), total value leucocyte, leucocyte differential counting, ANOVA Test