

IMMUNE RESPONSE OF MICE (*Mus musculus*) BY VACCINATED *Brucella abortus* STRAIN RB51 AND INFECTED WITH *Brucella suis* TOWARD SPLEEN HISTOPATHOLOGY

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ABSTRACT

The purpose of this study was to know the number and diameter of white pulp of the spleen of mice (*Mus musculus*) by vaccinated *Brucella abortus* Strain RB51 and infected *Brucella suis*. Eighteen mice were divided into three treatment groups which each group consists of six mice, P0- as negative control was given NaCl by intramuscular injection, meanwhile P0+ as positive control was infected with *Brucella suis* 1×10^8 CFU/ml and P1 was vaccinated by *Brucella abortus* strain RB51 0,1 ml and infected by *Brucella suis* 1×10^8 CFU/ml, and then sacrificed at tenth week. The data of the number and diameter of white pulp of the spleen was examine with Nikkon H600L mikroskop. Then, the data analyzed using ANOVA test and continued by HSD test. The result of this study showed there was significant ($p < 0,05$) different between negative control and treatment groups but not significant different with positive control.

Keywords: *Brucella abortus* Strain RB51, *Brucella suis*, mice, the number of white pulp, diameter of white pulp