INFLUENCE OF IMMUNIZATION WITH WHOLE BACTERIUM OF *Brucella abortus S19* ABOUT SPERMATOGENIK CELL NUMBER ON RABBIT (*Orytolagus cuniculus*) TESTICLE

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**ABSTRACT**

*Brucella abortus S19* is an attenuated live vaccine that used for Brucellosis controlling program, but this vaccine cause orchitis. The purpose of this research was to know the influence of immunization with whole bacterium of *Brucella abortus S19* to spermatogenik cell number on rabbit testicle. Sixteen male rabbits (*Orytolagus cuniculus*) were divided into two groups (P0 and P1) and each groups composed eight replications. P0 were treated with 0.5mL NaCl physiology with subcutaneous injection and would repead two times per two weeks. P1 were treated with 0.5mL whole bacterium of *Brucella abortus S19* added with 0.5mL CFA and 0.5mL bacterium of *Brucella abortus S19* added with 0.5mL CFA as boster given in two times per two weeks. Rabbit testicle were collected on the five weeks after treatment. Each testicle specimen was processed and stained using H&E staining. The data were compared using Independent T test. The result of the research showed that P1 was significantly higher than P0 (p<0.05). The conclusion of the research demonstrated that whole bacteria *Brucella abortus S19* could decrease spermatogenik cell number on rabbit testicle.

**Key words:** immunization, *Brucella abortus S19*, spermatogenik cell.