ANTIBODY TITER MEASUREMENT OF *Avian Influenza (AI)* ON QUAIL (*Coturnix coturnix japonicum*) POST VACCINATION

Yuke Novia Hardiyanti

**ABSTRACT**

*Avian Influenza* is an important zoonotic disease that infected to many Avian group. The observation of immunity level by antibody titer test is needed to know imun states for anticipating one of some factors of spreading trigger. This research aimed to provide information about level of antibody titer on quail post vaccinated *Avian Influenza*. Sixty quail (*Coturnix coturnix japonicum*) at four weeks old were divided into four groups (P0, P1, P2, and P3). P0 was the control group where the quail did not vaccinated. P1, P2 and P3 were vaccinated with one time, two times and three times vaccination respectively. Blood sample were collected at 2 weeks post-vaccination. Serological tests in this study used Haemagglutination Inhibition (HI) test. Statistical analysis comparisons were performed using SPSS v17.0 for Windows. Data were compared by ANOVA and Duncan’s. ANOVA showed significantly difference among all of the experiment groups (p<0.05), moreover Duncan’s test showed the group treated with three times vaccination gave highest level of antibody titer *Avian Influenza*.

**Keywords**: *Avian Influenza*, *Quail*, *Vaccination*, *Antibody Titer*, *HI Test*