ESTIMATION OF BLOOD SERUM TITER ANTIBODY IN QUAIL
(Coturnix coturnix japonica) BY USING HEMAGGLUTINATION INHIBITION TEST FROM THE EGG YOLK POST VACCINATION Avian Influenza (AI)

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ABSTRACT

The aim of this study was to determine the estimation of blood serum antibody titer in quail by using Hemagglutination Inhibition (HI) test from the egg yolk post vaccination AI. The study was conducted on a laying quail farm in Karang Pilang subdistrict, Surabaya. This study used 45 quail birds that have been vaccinated with a dose of 0.3 ml AI. The blood and the egg were collected at 2 weeks post-vaccination. Examination of the samples was conducted in the Laboratory of Virology and Immunology Faculty of Veterinary Medicine, Airlangga University. Examination of the samples consisted of serum preparation, extraction of egg yolk, and serological tests. Serological tests in this study used Hemagglutination Inhibition (HI) test. The result of statistical analysis using Regression showed that between blood serum antibody titer with egg yolk antibody titer from quails has a linear relationship (p<0.05). The conclusion of this study was blood serum antibody titer of quail post vaccination AI can be estimated by using HI test from the egg yolk.

Keyword: AI, HI test, egg yolk, vaccination, quail