

CROSS-REACTIVITY OF CHICKEN SERUM VACCINATED WITH AVIAN INFLUENZA VIRUS H5N1 CLADE 2.3.2 AND CLADE 2.1.3 USING HEMAGGLUTINATION INHIBITION TEST (HI Test)

Ema Ria Nanda

ABSTRACT

The aim of this study was to determine cross-reactivity between Avian Influenza H5N1 virus clade 2.3.2 post-vaccination chicken serum with clade 2.1.3 antigen and Avian Influenza H5N1 virus clade 2.1.3 post-vaccination chicken serum with clade 2.3.2 antigen using HI test. Test-serum was obtained from total 45 chickens, 15 chickens was vaccinated with Avian Influenza H5N1 virus clade 2.3.2 killed-vaccine, 15 chickens was vaccinated with Avian Influenza H5N1 virus clade 2.1.3 killed-vaccine and 15 chickens used as controls without vaccination. After getting test-serum, HI test was performed by using AI H5N1 antigen clade 2.1.3 and AI H5N1 antigen clade 2.3.2 for all sera from each group. The HI-titer was calculated and analysis by ANOVA. The results of HI test showed cross-reactivity between post-vaccination chicken serum Avian Influenza H5N1 virus clade 2.3.2 with clade 2.1.3 antigen occurs with low antibody titers and cross-reactivity chicken serum post-vaccination Avian Influenza H5N1 virus clade 2.1.3 with clade 2.3.2 antigen occurs with high antibody titers.

Key Word : *Avian Influenza, Cross-reactivity, Clade 2.1.3, Clade 2.3.2, HI Test*