

**COMPARISON TITER ANTIBODY AVIAN INFLUENZA H5 VIRUSES
ON PIGS BY HAEMAGLUTINATION INHIBITION TEST (HI TEST)
WITH PIG ERYTHROCYTE**

Noviana Fitria Gusman

ABSTRACT

Avian influenza is a viral disease caused by type A influenza virus, it belongs to the virus family *Orthomyxoviridae*. HI test can be used for detecting virus which have haemagglutinin such as Avian Influenza virus. So far there are not any literature mention about the concentration of pig erythrocyte. The aim of this research was to find out and to compare titer antibody to Avian Influenza viruses on pigs with different pig erythrocyte concentration (0,5% and 0,75%).

HI test were done with 18 samples of pigs sera. Samples for HI test were isolated from sera of pigs that have been added RDE (Receptor Destroying Enzyme) (3:1). Positive result show if the titer reach 2^3 ($\log_2 3$) or more. On this HI test result from 0,5% erythrocyte concentration were shown at 12 samples and at all samples from 0,75% erythrocyte concentration.

The avarage of Avian Influenza viruses antibody titer on pigs using 0,5% and 0,75% erythrocyte concentration is 3,67:6,11. The conclusion from this research was that 0,75% pig erythrocyte more respon to Avian Influenza viruses of pigs.

Key words: Avian Influenza, antibody, erythrocyte, pigs