DETECTION OF ANTIBODIES AGAINST AVIAN INFLUENZA (SUBTYPE H5) BY HI TEST (*Hemagglutination Inhibition Test*) ON SERUM SAMPLES OF PIGEON TAKEN FROM BANJARAN’S MARKET KEDIRI

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ABSTRACT

Avian Influenza virus has attacked many countries including Indonesia. Pigeons were indentified as one of species that potentially to be reservoir of AI virus. The aim of this research is to determine the pigeon antibodies that are sold at Banjaran’s Market Kediri against AI Subtype H5. This research uses non-experimental research design with descriptive survey methods. Detection of AI antibody subtype H5 is examined by Hemagglutination Inhibition test. Research activities is taking 110 samples of pigeon’s blood slaughtered in the Banjaran’s Market Kediri by simple random sampling methods. The serum is separated from the blood clot, then serum was transferred into the microtube. Before performing HI test, samples must be inactivated in waterbath at 56°C for 30 minute , the purpose is to inactivate non specific reaction of serum. Antigen AI subtype H5N1 4 HA Units is used as antigen in HI test. HI titers may be regarded as being positive if the titers is ≥ 2^4. Analysis is presented in the form of descriptive data by calculating the percentage of antibody AI of pigeons. The result of this research shows that any antibody AI Subtype H5 on serum samples of pigeons can be detected.

**Key words:** Antibody Avian Influenza, HI (Hemagglutination Inhibition), pigeons.