

**DETECTION OF ANTIBODY AND ISOLATION OF H7 SUBTYPE
AVIAN INFLUENZA VIRUS ON STRAY CATS IN INDONESIA**

Rediana Rifqi Damayanti

ABSTRACT

The aim of this study was to detect the presence of antibody and H7 subtype Avian Influenza virus on stray cats in Indonesia. 100 stray cats were collected from traditional market in Surabaya (n = 37) , Sidoarjo (n = 33) , Gresik (n = 14), Lamongan (n = 10) and Jakarta (n = 6). The study was conducted from January to April 2016 in the BSL-2 Laboratory Avian Influenza-zoonosis Research Center Airlangga University (AIRC-Unair). The samples being tested in the study were sera and nasofaring swab of the cats. The research method utilize by Hemagglutination Inhibiton (HI) test using H7 antigen subunit for sera samples. Cat sera was inactivated at temperature 56°C for 30 minutes. Swab samples were inoculated in SAN (Specific Antibody Negative) 9-11 days embryoned chicken eggs, then were incubated at 37°C for 4 days. At fourth day, the isolate were harvested then tested using Hemagglutination (HA) test. The result showed that from 100 samples, 18 (18%) samples had specific antibody of H7 subtype Avian Influenza virus. The result of HA test for swab samples was negative.

Key words: antibody, Avian Influenza H7, stray cats