ABSTRACT

ROBY RADITIA ARYOPUTRANTO. The Immune Response of Newcastle Disease (ND) on Broiler Chicken that were Vaccinated with Newcastle Disease and Avian Influenza in Various Age. Under the direction of RETNO D. SOEJODONO and SRI MURTINI

The aim of this study were to determine the immune response of Newcastle Disease (ND) on broiler that vaccinated with Newcastle Disease (ND) and Avian Influenza (AI) in various age. 1500 DOC broiler chicken strain Cobb in this study were divided into 5 groups and each group consist of 300. Group A vaccinated with AI vaccine in day 1, Group B vaccinated with AI vaccine in day 7, Group C vaccinated with AI vaccine in day 10, Group D vaccinated with AI vaccine in day 14, and Group E were unvaccinated as control. Each group were vaccinated with ND active vaccine at day 4 by eye drop and booster at day 18 by drinking water. The antibody ND were measured at day 1, 21, 35, 49. Measurement of ND antibody titer were done with haemaglutination Inhibition test, and analyzed using one-way test of ANOVA by Duncan’s test. The results of this study show AI vaccinated in broiler was affect the ND antibody titer. The group that shows that best protective antibody titer of ND appeared only in the group that was AI unvaccinated.

Key word: ND titer, Avian Influenza, Broiler chicken, Vaccination