

ABSTRACT

The purpose of this research is to know the effect of various of infection doses sporocyst of *Eimeria tenella* to the histopathological and pathological anatomy descriptions of caecum, leukocytes, differentiate leukocytes and oocyst production on broiler.

Eighty of one week old chick were divided into 5 treatments and each treatment consisted 16 replications. The Complete Random research design was used in this experiment. Procedur of research was consisted isolation and identification of *Eimeria tenella*, multiply of *Eimeria tenella*, isolation of oocyst by using the floation method, cleavage of oocyst by using glass beads, preparation of experiment chick, sporocyst infection on chick, observation of the result and data analysis. Observation of experiment were histopathological and pathological anatomy descriptions of caecum, leukocytes, differential leukocytes and oocyst production. The number of leukocytes and oocyst production were analysed by analisis of variant and if they were differences Tukey-HSD continuously. The lesion scores used Kruskal Wallis One-Way Anova for lasting Mann Whitney U-Wilcoxon Rank Sum W . In the present study, we used a complete random design for macroscopic and microscopic analysis on caecum description, leukocytes counting, and oocyst production.

No significantly affect sporocyst of *Eimeria tenella* infected chicken doses 1000, 2000 and 4000 on leukocytes differentiation counting, monocyte exception. Based on our finding, we suggest that there were some significantly affects sporocyst of *Eimeria tenella* infected chicken doses 1000, 2000 and 4000 on lesion scores, histopathological description of caecum, leukocytes counting and oocyst production.

Key words : *sporocyst, leukocyte, histopathological, pathological*