HISTOPATHOLOGICAL APPEARANCE OF CHICKEN CAECUM DUE INFECTED BY *Eimeria tenella* OOCYST THAT ATTENUATED THROUGH THE SERIAL PASSAGE

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ABSTRACT

The aim of the research was to find out the histopathological appearance of chicken caecum due infected by *Eimeria tenella* oocyst that attenuated through the serial passage. This research used histopathological scores and the number of schizont to show the changes due attenuated *E. tenella*. Twenty four male chickens were divided into four groups and each group consisted five male chickens as repetition and one male chicken as a control. The first group was infected by *E. tenella* parent lines, the second group was infected by precocious lines *E. tenella* of the first group, the third group was infected by precocious lines *E. tenella* of the second group, then the fourth group was infected by precocious lines *E. tenella* of the third group. The feces samples was processed by sediment and floating method. Histopathological score and the total number of schizont were examined under microscope with magnification 400-1000x. The result showed that there was significantly difference (p<0.05) in the score of hemorrhage between the first, second, third and fourth group. The score of caecum epithel erosion showed significantly difference (p<0.05) between the first, second, third, and fourth group. The number of schizont showed significantly difference (p<0.05) between the first, second, third, and fourth group. Moreover, attenuation through serial passage decrease injury levels of histopathological chicken caecum and the number of schizont.

Key words: *Eimeria tenella*, attenuation, hemorrhage, caecum epithel erosion, number of schizont.