EFFECT MENIRAN (Phyllanthus niruri Linn) ON Eimeria tenella INFECTION FEATURES OF (NUMBER AND SIZE) GOBLET CELLS, AND EXPRESSION OF INTERLEUKIN -1 IN BROILER

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ABSTRACT

Overview of research has been conducted number and size of goblet cells and the expression of IL-1 chicken caecum infected Eimeria tenella with meniran simplicia (Phyllanthus niruri Linn). The purpose of this study was to determine the effect of the meniran simplicia (number and size) caecal goblet cells and the expression of IL-1 on Eimeria tenella infected chickens (Gallus gallus domesticus). This type of research was experimental using completely randomized design with five experimental treatments, P0 unit (group of chickens dose infected Eimeria tenella 5000 oocysts), P1 (control group), P2 (group of chickens that infected Eimeria tenella dose 5000 oocysts + meniran simplicia (dose 12.25 mg/ml)), P3 (group infected Eimeria tenella dose 5000 oocysts of chicken + meniran simplicia (dose 14.7 mg/m1)), P4 (group of chickens that infected Eimeria tenella dose 5000 oocysts + meniran simplicia (dose 24.5 mg / ml). Data were analyzed by ANOVA (Analysis of Variant) and tested by test F. If there are significant differences (p <0.05), followed by a test of statistical tests smallest real differences. Results showed a positive correlation and significant differences between meniran dose treatment with 12.25 mg/ml, 14.7 mg/ml and 24.25 mg/ml and without meniran on AB-PAS staining and score of IL-1 positive cell percentage score of 4 (cells positive for more than 80% obtained in treatment (P4)) with painting immunohistochemical Remelle index method.

Key word: Meniran, Phyllanthus niruri Linn, Eimeria tenella, IL-1, goblet cells