THE EFFECT OF EXTRACT Phyllumhus niruri., Linn ON HISTOPATHOLOGICAL CHANGES IN THE INTESTINE OF BROILER CHICKEN INFECTED BY Escherichia coli

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ABSTRACT

The aim of this research was to prove the effect of given Phyllumhus niruri., Linn extract on histopathological changes in the intestine of broiler chicken infected by Escherichia coli. The extract of Phyllumhus niruri Linn. were widely known as antibacterial. The method used broilers at the age of twenty three days divided into five groups; negative control was not infected by Escherichia coli and without given extract of Phyllumhus niruri., Linn. Three groups were infected by Escherichia coli 10^6CFU/ml given extract of Phyllumhus niruri., Linn in variety dosage: 20%, 25%, and 30%. After five days treatment the broiler was sacrificed to take the sample of intestine tissue. The data were analyzed with Kruskal Wallis test, followed by Mann Whitney test. The result showed that there was a significant difference of inflammation and damage crypt in intestine between treatment groups. The conclusion was extract Phyllumhus niruri., Linn can be used to improve histopathological changes in the intestine of broiler chicken infected by Escherichia coli.

Key words: Broiler chicken, Escherichia coli, Histopathological changes, Intestine, Phyllumhus niruri L.