

**THE EFFECT OF MENIRAN ( *Phyllanthus niruri*Linn ) EXTRACT  
ON THE HISTOPATHOLOGY OF BROILER CHICKEN LIVER  
INFECTED WITH *Escherichia coli*.**

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**ABSTRACT**

The purpose of this study was to determine the effect of meniran (*Phyllanthus niruri* Linn) to reduce the occurrence of necrosis and degeneration in the liver histopathology broiler chickens that infected by *E. coli*. This study used 30 broiler chickens and divided into six groups. All groups except the negative control group were infected with *E. coli* at a dose of  $10^6$  CFU/ml/kgbw. The sixth group is a positive control, negative control, the control group were given antibiotics and extracts of *Phyllanthus niruri* L, divided 3 concentration: 20 % , 25 % and 30 %. Histopathological examination can be seen from the picture of degeneration and hepatic necrosis. Data were analyzed using Kruskal-Wallis test and if there are significant differences between treatment groups ( $p < 0.05$ ), then followed by Mann-Whitney test. Statistical analysis performed using SPSS for Windows 20. The results showed that meniran (*Phyllanthus niruri* L) extract at a concentration of 20 % has been able to decrease the picture degeneration and necrosis of the liver of broiler chickens infected with *E. coli* and meniran (*Phyllanthus niruri* L) extracts with a concentration of 30 % has the same potential with antibiotics.

Key words :*Phyllanthus niruri* L, *Escherichia coli*, Liver, Degeneration, Necrosis.