

**JURNAL**

# **AgroVeteriner**

**FAKULTAS KEDOKTERAN HEWAN  
UNIVERSITAS AIRLANGGA**



**Vol. 04. No. 02. Juni 2016**

**ISSN 2303-1697**

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## **PENGARUH MENIRAN (*Phyllanthus niruri* Linn) SEBAGAI IMMUNOMODULATOR TERHADAP UKURAN PULPA PUTIH LIMPA AYAM BROILER YANG DIINFEKSI *ESCHERICHIA COLI***

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1. Nurvita Putih K --> Mahasiswa Fakultas Kedokteran Hewan
2. Djoko Galijono --> Dosen Fakultas Kedokteran Hewan
3. Emy Koestanti S. --> Dosen Fakultas Kedokteran Hewan

### **Abstract**

The purpose of this study was to determine the effect of *Phyllanthus niruri*, Linn extract supplementation on diameter of spleen white pulp of broiler chickens were infected by *Escherichia coli*. Twenty five of broiler chickens at 22 days old of *Cobb 500* were randomized into 5 treatment groups. Group PO- was fed basal and not infected by *Escherichia coli* as a control group. Group PO+ was fed basal and infected by  $10^6$  *Escherichia coli*. Group P1 was fed basal and infected by  $10^6$  *Escherichia coli* before supplemented by 20% of *Phyllanthus niruri* at 23 days old. Group P2 was fed basal and infected by  $10^6$  *Escherichia coli* before supplemented by 25% of *Phyllanthus niruri* at 23 days old. Group P3 was fed basal and infected by  $10^6$  *Escherichia coli* before supplemented with 30% of *Phyllanthus niruri* at 23 days old. All of broiler chickens were sacrificed at 30 days old. Data was obtained from spleen white pulp diameter and analyzed by ANOVA followed by Duncan test, while the histology of spleen white pulp data were viewed and analyzed by *Opticlab Viewer* with *Image Raster* software. The results showed that *Phyllanthus niruri* can effect on diameter of spleen white pulp infected by *Escherichia coli*.

Keyword : *Phyllanthus niruri*, immunomodulator, *Escherichia coli*, white, pulp, broiler,

### **Daftar Pustaka :**

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