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	Sebagai Pengembangan Antibiotika Alami dan
	Imunomodulator

PENELITI UTAMA : Sri Hidanah

UNIT/LEMBAGA/TEMPAT	: Penelitian Unggulan Perguruan Tinggi
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A Study on the Effect of Meniran (*Phyllanthus Niruri* Linn) Extract to Improve Infundibulum and Egg Production of Laying Chicken Infected with *Escherichia Coli*

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Abstract

The aims of the research work was to determine the meniran extract potential to improve infundibulum and egg production of layer chicken infected with *Escherichia coli*. Twenty five layer chicken were divided 5 groups: infected with *Escherichia coli*, without meniran extract (C+), not infected with *Escherichia coli*, without meniran extract (C-), T1, T2, T3 were infected with *Escherichia coli* and given meniran extract 10, 20, 30% respectively. The results indicated that meniran extract were effective in elimination of *Escherichia coli infection*. Furthermore, the infundibulum improved and the egg production of laying chicken has increased.

Key words: Meniran, *Escherichia coli*, infundibulum, egg production, laying chicken

Colibacillosis is an infectious disease caused by *Escherichia coli* an avian pathogen. Currently *Escherichia coli* is resistant to almost all antibiotics (Hidanah *et al.* 2018). Meniran extract has antibacterial effect on *Escherichia coli* (Hidanah *et al.*, 2019) and can inhibit or kill the *Escherichia coli* because of the substances in these plants function as antibactericidal actions of alkaloids, tannins, saponins, and flavonoids (Gunawan *et al.*, 2008) present in there plants.

Materials and Methods

Twenty five laying hen aged 26 weeks were divided into 5 groups: infected with *Escherichia coli*, without meniran extract (C+), not infected with *Escherichia coli*, without meniran extract (C-), T1, T2, T3 were infected with *Escherichia coli* and given meniran extract, 10, 20, 30% respectively during 2 weeks. The source, isolation, identification, dosage, route infection of *Escherichia coli*, preparation of meniran extract, in vitro studies on bactericidal effect and necropsy for sample collection and processing, record of egg production were done as per Hidanah *et al.* (*loc. cit*). Laying hens was infected with 1 mL/kg BW of *Escherichia coli* (10⁸ cells/mL) and

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Treatment Groups	Inflammation Score Median Value	Congestion Score Median Value	Egg weight (g) (layer/week)
C -	$1.00^{a} \pm 0.50$	1.00ª ± 0.35	400.4 ^b ± 9.12
C+	$4.00^{\text{b}} \pm 0.65$	$3.00^{a} \pm 0.45$	365.4ª ± 9.12
T1	$1.00^{\circ} \pm 0.45$	1.00°± 0.30	400.4 ^b ± 9.12
T2	$1.00^{ab} \pm 0.40$	$1.00^{a} \pm 0.30$	406 ^b ± 11.06
Т3	0ª ± 0.00	$0^{b} \pm 0.00$	408,8⁵ ± 12.71

Table I. Median Value of Infundibulum Inflammation and Congestion Score and Egg Weight of Laying Chickens

^{a,b,c,d} Different superscripts in the same column show significant differences (p <0.05)

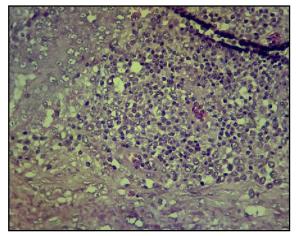


Fig 1. The infundibulum of laying hens red arrow as cell inflammation; with tubular gland cell nucleus (H.E; 400x;).

observed for 3-5 days. Histological assessment of inflamation and congestion of infundibulum with HE method (Safitri and Hariadi, 2019). Clinical signs and data on egg production and their qualities were recorded.

Results and Discussion

The extent of tissue damage was assessed in the damages in infundibulum due to inflammation (Fig 1) and congestion (Fig 2). The results of the inflammation and congestion score and Egg Weight (layer/week) was presented in Table I. Median as the mean value of the inflammatory histopathology score.

On control (C-), the infundibulum appeared normal. The control positive (C+) which was not given meniran extract (*Phyllanthus niruri* Linn) but infected with *Escherichia coli* showed pathological changes in marked infiltration with a score of 4 compared to the other groups. In the histopathology figure of infundibulum in control positive (C+), the

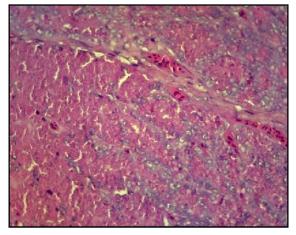


Fig 2. Infundibulum of laying hens, showing congestion in the blood vessels (arrow) (H.E 400x).

presence of purplish color is seen in inflammatory cell infiltration (Sugihartini and Fajri, 2016).

The treatment 10% meniran extract (T1) also showed an inflammatory cells infiltration, compared to C+ which was infected by *Escherichia coli* but not given meniran extract (*Phyllanthus niruri* Linn). The treatment 20% meniran extract (T2) was showed an inflammation score = 1. The inflammation was reduced compared to the treatment T1. The treatment 30% meniran extract (T3) has scored = 0 (indicating inflammation). The role of meniran extract (*Phyllanthus niruri* Linn) at this concentration reduced the inflammatory reaction.

T control positive C+ has shown most severe congestion with a score - 3, it appears that the microcirculation is dilated with full of erythrocytes. In groups C-, T1 and T2 there were congestion, but in lesser extent and the score obtained was 1. In treatment T3 there was no congestion, due to the role of meniran plant extract (*Phyllanthus niruri* Linn) with a concentration of 30% that was able to reduce the congestion. Congestion and inflammation was caused by oxidative stress because of the absence of a balance between oxidant production and antioxidant defense (Febriana, 2016). Antithrombic flavonoids can form platelet plugs, so that they can close small tares in blood vessels, inhibit bacterial development by acting as enzyme inhibitors by inhibiting the production of energy and nucleic acids or proteins and can reduce blood capillary permiability, so that blood capillary damage. Tanin is efficacious as an antiseptic (preventing bacterial growth) and hemostatic (stopping bleeding) (Mathivanan et al., 2006).

Based on the results of the research study, it can be seen that the meniran extract (*Phyllanthus niruri* Linn) with concentration of 10% (T1) has been able to kill the *Escherichia coli*, at the concentration of 20% there was an increase in antibacterial activity against *Escherichia coli*. At a concentration of 30% meniran extract showed high potential antibacterial effect and reduced inflammation and congestion due to *Escherichia coli infection*.

The presence of *Escherichia coli* affect the reproductive tract in laying hens, especially in the infundibulum. Tabbu (2000). Since infundibulum functions to catch the ovulated follicles; *Escherichia coli* infection in the infundibulum the egg production drops. The concentration of meniran extract (*Phyllanthus niruri* Linn) at 10%, 20%, and 30% indicated that the egg production increased due to the presence of terpenoids in meniran extract agent which a act as an antibacterial. Higher amount of meniran extract, there will be a corresponding increase in the amount of terpenoid content which has more potent in reducing the activity of the bacteria (Gunawan *et al.*, *loc. cit*).

Summary

Meniran extract (*Phyllanthus niruri* Linn) with a concentration of 10%, 20% and 30% can improve functions of the infundibulum and increase egg production in laying chiken infected with *Escherichia coli*.

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 - b) Full papers: Abstract (not more than 100 words), Keywords (not more than 4 words), Introduction (with no subtitle), Materials and Methods, Results and Discussions, Summery, Acknowledgement (optional) and References (not exceeding 15). The full papers should not exceed 4 printed pages.
 - c) Clinical articles : Abstract (not more than 100 words), Keywords (not more than 4 words), Introduction (with no subtitle), Case History and Observations, Treatment and Discussion, Summary, Acknowledgement (optional) and References (not exceeding 15). The Clinical articles should not exceed 3 printed pages.
 - d) Short Communications: There is no specific format for Short Communication. Articles which do not comply to either Full Papers or Clinical Articles either on quality basis or on page-wise basis will be allotted under Short Communication.
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- 9. Citing references: In the text, references should be cited by names of the authors followed by the year of publication in parenthesis. In case of more than two authors, the name of the first author must be followed by *et al.* For the references repeated in the text, the year must be replaced by *loc cit.* in successive references. At the end of the text, the references must be furnished in alphabetical order. Each author's name must be followed by initials. Before the name of the last author, the word 'and' must be included. The year of publication must be in parenthesis. The title of the referred article must be given in full. The Journal's name must be in approved abbreviated form and must be in italics. The volume number of the journal must be given in bold letters. It should be followed by a colon and the starting and ending page numbers. While citing books, the Title of the book, Year, Publisher, Place of Publication, Number of the Edition and the relevant page number(s) must be provided. Website, 'in press' and 'personal communication' should be avoided as references.
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