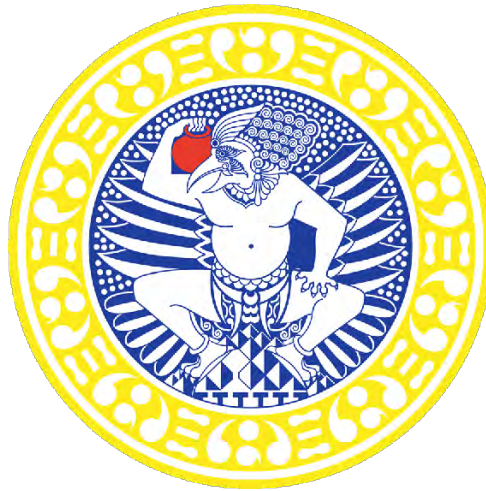


THESIS

**THE EFFECT OF LASERPUNCTURE ON BODY WEIGHT
AND OOCYST PRODUCTION OF BROILER CHICKEN
INFECTED BY *Eimeria tenella***



By:

MOCH. ZEIN ICHWAN FERDIANSYAH
SIN. 061511133103

**FACULTY OF VETERINARY MEDICINE
UNIVERSITAS AIRLANGGA
SURABAYA
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ENDORSEMENT FORM

**THE EFFECT OF LASERPUNCTURE ON BODY WEIGHT AND
OOCYST PRODUCTION OF BROILER CHICKEN
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Thesis
Submitted in partial fulfillment of the requirement for the degree of Bachelor of
Veterinary Medicine
at
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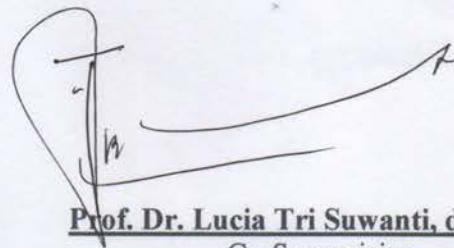
By

MOCH. ZEIN ICHWAN FERDIANSYAH
SIN. 06151113303

Approval of
Supervising Committee



Dr. A. T. Soelih Estoepangestie, drh
Supervisor



Prof. Dr. Lucia Tri Suwanti, drh., MP.
Co-Supervisor

DECLARATION

Hereby, I declare in this thesis entitled:

**THE EFFECT OF LASERPUNCTURE ON BODY WEIGHT
AND OOCYST PRODUCTION OF BROILER CHICKEN
INFECTED BY *Eimeria tenella***

There is no other work ever published to obtain a college degree in a certain collage and to my knowledge there is also no work or opinion ever written or published by others, except those in writing referred to in this paper and mentioned in the reference.

Surabaya, 20 January 2020



Moch. Zein Ichwan Ferdiansyah
SIN. 061511133103

Has been assessed in Result Seminar

Date: 14th of November 2019

RESULT SEMINAR ASSESSEMENT COMMITTEE

Head : Prof. Dr. Tatang Santanu Adikara, MS., drh
Secretary : Prof. Dr. Nunuk Dyah Retno Lastuti, MS., drh
Member : Dr. Thomas Valentinus Widijatno, M. Si., drh
Supervisor : Dr. A. T. Soelih Estoepangestie, drh., M.P.
Co-Supervisor : Prof. Dr. Lucia Tri Suwanti, M.P., drh

Has been assessed in Thesis Examination

Date : 17th of Desember 2019

THESIS ASSESSEMENT COMMITTEE

Head : Prof. Dr. Tatang Santanu Adikara, MS., drh
Secretary : Prof. Dr. Nunuk Dyah Retno Lastuti, MS., drh
Member : Dr. Thomas Valentinus Widijatno, M. Si., drh
Dr. A. T. Soelih Estoepangestie, drh., M.P.
Prof. Dr. Lucia Tri Suwanti, M.P., drh

Surabaya, 17th of December 2019

Faculty of Veterinary Medicine

Universitas Airlangga

Dean,



Prof. Dr. Pudji Srianto, drh., M.Kes

NIP. 195601051986011001

SUMMARY

Moch. Zein Ichwan Ferdiansyah. Thesis entitled “**The Effect of Laserpuncture on Body Weight and Oocyst Production of Broiler Chicken Infected by *Eimeria tenella***” under the guidance of Dr. A. T. Soelih Estoepongastie, drh as the supervisor and Prof. Dr. Lucia Tri Suwanti drh, MP. as the co-supervisor.

Broiler chicken is one of commercial chicken beside the layer chicken in the poultry production which is a top priority in meeting the needs of animal protein due to its superior characteristics which do not require a large area for maintenance and broiler chicken also have fast and efficient growth in converting feed into meat (Ensminger *et al.*, 2004).

Avian coccidiosis is a digestive parasitic disease caused by multiple species of the protozoan parasite of the genus *Eimeria*. It is one of the most common and economically most important diseases of poultry worldwide (Khaled Kaboudi *et al*, 2016). *E. tenella* is one of the important coccidian species in chickens due to its pathogenic characteristics that cause problems and disadvantages to the poultry production (Chapman, 2003). Coccidiosis can cause large economical losses for poultry sector due to inhibition of chicken growth, decrease at body weight, carcass quality, and egg production (Tampubolon, 2004).

This research aims to prove that the use of alternative treatment, laserpuncture procedure at *Wei Gen* and *Hu Men* point on body surface of broiler chicken infected by *E. tenella* can improve chicken body weight and decrease oocyst production. This research used 35 day old chickens (DOC) randomly divided into five groups. First group was control group, second group was only infected with *E. tenella*, third

group was only treated with laserpuncture shot, fourth group was treated with laserpuncture shot before infected with *E. tenella* and fifth group was treated with laserpuncture shot after infected with *E. tenella*. The body weight of broiler chickens was measured every week, while the oocyst production through the count of oocyst in faeces in 7 to 12 days post infection.

The data were analyzed using ANOVA test and continued with LSD test. The body weight result showed that chickens with laserpuncture treatment had the highest result compared with group that doesn't have laserpuncture treatment. While oocyst production showed lower result on group with laserpuncture treatment. The result suggests that laserpuncture shot before *E. tenella* infection was more effective to improve chicken body weight, while laserpuncture shot after infection was more effective to decrease oocyst production of *E. tenella*.

ACKNOWLEDMENT

The utmost gratitude is for God Almighty for His abundance blessing and guidance for the author to finish the research and write this thesis with title **The Effect of Laserpuncture on Oocyst Production and Body Weight of Broiler Chicken Infected by *Eimeria tenella*** could be finished.

On this opportunity, the author wanted to say thank you for

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The author has realized this thesis still not perfect, therefore the author accepts and appreciate any kind of critique and recommendation from the reader that will help improvement of this thesis. Last but not least, the author wishes that this research will be useful for further research and for the advancement of science.

Surabaya, October 2019

Author