

THESIS

**Prevalence and Severity of Scabies (*Sarcoptes scabiei*)
on Rabbits in Kuala Lumpur City**



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UNIVERSITAS AIRLANGGA
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ENDORSEMENT FORM

**Prevalence and Severity of Scabies (*Sarcoptes scabiei*)
on Rabbits in Kuala Lumpur City**

Thesis

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at

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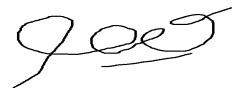
DECLARATION

Hereby, I declare that in this thesis entitled :

Prevalence and Severity of Scabies (*Sarcoptes scabiei*) on Rabbits in Kuala Lumpur City

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

Surabaya, 1 February 2021



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Date : 1 February 2021

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SUMMARY

Veena Vasheene Vijaya Kumar. Research on Prevalence and Severity of Scabies (*Sarcoptes scabiei*) on Rabbits in Kuala Lumpur City under the supervision of the first supervisor Dr. Mustofa Helmi Effendi drh., DTAPH and Dr. Kusnoto, drh, M.Si. as the co-supervisor.

Scabiosis is a skin disease that is a zoonosis with a great cause of irritation and symptoms as well as symptoms of scabiosis are crusty and ensuring disturbing activities resulting in a decrease in the quality of meat and the skin. (Thomas et al., 2015), This situation in Kuala Lumpur supports the existence of rabbit farms with superior breeds as well as favorable climate. Rabbits with *scabiosis* have a fairly high mortality rate ranging from 15-40%, this can occur starting from birth to weaning due to the disease (Masanto and Agus, 2011). Factors that influence diseases are poor sanitation (Lastuti et al., 2018). *Scabiosis* is a skin disease caused by *Sarcoptes scabei*, which is included in the class of Arachnida (Kuizheng et al., 1994).

Sarcoptes scabiei pierce the skin and suck the lymph fluid in the epidermis, which causes irritation and symptoms of severe itching finally formed a thick scab on dry skin. So skin thickening due to their keratinization and their growth tremendously woven the binder and cause the hairs to lose or fall out (Soulsby, 1986).

Suspected rabbits with symptoms of Scabiosis, Skin scrapings were taken from the skin of the wound, then scraped away with a scalpel or razor until it bleeds. Skin scrapings are taken from several different spots on the skin with the

lesion (Ravindran and Subramanian, 2000). Effect of seasonal and climatic variations on the prevalence of mite infestation in rabbits. Then viewed under a microscope to determine the cause of the agent *Sarcoptes scabiei*.

The research was conducted in the 4 rabbit breeding farms located in the City of Kuala Lumpur with 35 samples from each farm. The sample used in the form of rabbits infected with *Scabiosis* clinical symptoms and results of scraping or skin scrapings, 140 samples are calculated from the number of rabbits which showed clinical symptoms of *Scabiosis* and *Scabiosis* positive through laboratory tests that indicate the presence of the mite *Sarcoptes scabiei*.

Results are drawn from the results of research on the prevalence and severity of *scabies* (*Sarcoptes scabiei*) in rabbits in Kuala Lumpur City. The prevalence rate of scabies in rabbits in farms in Kuala Lumpur is 9.29%. The severity of scabies in rabbits in farms Kuala Lumpur is divided into 2, namely mild and moderate severity. The level of mild severity was 69.23% and moderate severity was 30.78%.