HELMINTH PROFILE OF CLIENT-OWNED DOGS IN NUEVA ECIJA

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ACCEPTANCE SHEET

This undergraduate thesis entitled **"HELMINTH PROFILE OF CLIENT-OWNED DOGS IN NUEVA ECIJA"** prepared and submitted by **JOB RAFAEL M. VENTURINA**, in partial fulfillment of the requirements for the degree of **DOCTOR OF VETERINARY MEDICINE,** College of Veterinary Science and Medicine, Central Luzon State University is hereby accepted:

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BIOGRAPHICAL SKETCH

The author's name was taken from the bible. "Job" represents a man of strong faith who rose above all failures and challenges, and considered God's hand to be above all, and believed that His will reigns over everything.

Job was born on December 27, 1995 in Cabanatuan City, Nueva Ecija. He has one sister, Keziah Isabel and one brother, Aldrian Gabriel. His parents, Dr. Alberto Venturina and Dr. Virginia Mauro-Venturina are both veterinarians. His father inspired and influenced him greatly to take the DVM course.

He finished his elementary education in CLSU Elementary School, Nueva Ecija in 2008. Their family moved to Mariveles, Bataan when her mother had to stay in the United Kingdom for advanced education. Hence, he took his Secondary Education at Mountain View Village School and finished in 2012. He returned to CLSU in the same year where he initially took BS Fisheries then shifted to DVM in 2013. He finished his BS Animal Husbandry degree in 2017 then continued to the DVM program.

The author emerged Champion in Ilocos Invitational Rodeo Competition in 2017 and placed 2nd runner up in the Tanay Rodeo competition in the same year

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ABSTRACT

VENTURINA, JOB RAFAEL M., College of Veterinary Science and Medicine, Central Luzon State University, Science City of Muñoz, Nueva Ecija, Philippines, **June 2019, HELMINTH PROFILE OF CLIENT-OWNED DOGS IN NUEVA ECIJA.**

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The study aimed to identify the helminth species present in client-owned dogs in three selected cities of Nueva Ecija and determine the positivity rate of each gastrointestinal helminth identified.

Fecalysis and blood testing using commercial test kits were performed in ninety (90) client-owned dogs from cities of San Jose, Munoz, and Cabanatuan, Nueva Ecija. Standard fecal flotation techniques were done to demonstrate helminths. The general positivity rate for all gastrointestinal helminths and the positivity rate of each particular parasite were analyzed.

Results showed that 52.22% (47/90) of examined dogs were positive with at least one helminth species. Four species of gastrointestinal helminth parasites were identified across three cities in Nueva Ecija with mean positivity rates of 40.00%(36/90) for *Ancylostoma* sp., 11.11%(10/90) for *Dipylidium* sp., 1.11%(1/90) for *Trichuris* and 10%(9/90) for *Toxocara canis*. *Dirofilaria immitis* antigen was also identified using commercial test kit with 13.33%(12/90)positivity rate. *Ancylostoma* sp.is consistently the most common species found in sampled dogs from all three cities in Nueva Ecija.

Keywords: *Ancylostoma* sp., *Toxocara canis*, *Dipylidium* sp., *Dirofilaria immitis*

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