



**DETECTION OF INTESTINAL PARASITES ON SELECTED DOMESTIC
DOGS (*Canis familiaris*) IN RELATION TO ITS HEALTH AND
SANITARY CONDITION IN BRGY. PALIPARAN III AND
BRGY. SALAWAG, CITY OF DASMARIÑAS, CAVITE**

A Special Problem Presented to the
Biological Sciences Department
College of Science and Computer Studies
De La Salle University - Dasmariñas
City of Dasmariñas, Cavite

In Partial Fulfilment of the Requirements
for the degree of Bachelor of Science in Medical Biology

**LOUISSE GRACE DOLOT
SHAHANIE MAY D. LOPEZ**

March 2014



ABSTRACT

To determine the presence of intestinal parasites of domestic dogs in Barangay Paliparan III and Barangay Salawag, Dasmariñas, Cavite, examination of 30 fecal samples were conducted. Among the intestinal parasites detected, the helminthic parasites being the most dominant followed by the protozoan parasites. *Ancylostoma caninum* was the most prevalent helminth having the prevalence of 36.67%, followed by the most prevalent protozoan, *Cryptosporidium sp.* with 16.67% prevalence. Among the twenty four dogs being infected majority has single parasitism, followed by double and the least was multiple parasitism. The health and sanitary condition of the indoor dogs examined was assessed and correlated to the number of dogs being infected and non-infected. Through Fisher's Exact Test, it was found out that the health and sanitary condition of the indoor dogs are statistically not significant with the occurrence of intestinal parasite infection.



ACKNOWLEDGEMENTS

The researchers wish to express their utmost and unfathomable gratitude and appreciation to the following:

Dr. Cristina C. Salibay, the researchers' adviser, for her support, guidance and understanding, and who despite her many prior commitments and advisees, whole-heartedly shared her time and expertise for the completion of this undertaking;

Ms. Olgga Hara, Mrs. Ma. Luisa V. Cuaresma and Mrs. Hazel Ann Tabo, the members of the Thesis Review Panel, for their useful suggestions and substantive recommendations that effectively guided the researchers from proposal stage up to the completion phase of the paper;

Ms. Janete Macawile, the Biology Laboratory Supervisor, and the laboratory technicians, for permitting the researchers to conduct experiments even beyond the allowable period and gain access to some solutions and equipment for free;

The barangay workers, residents and dog owners of Brgys. Paliparan III and Salawag, Dasmariñas, Cavite for their accommodation to the researchers' request for fecal collection and answers to questionnaires;

Block mates in MEB31 Batch 2015, for sharing the same experiences in their researches and for the good laughs during nerve-wracking times;



The researchers' parents and families, for staying supportive in the researchers' high endeavors and showing patience and understanding in times of the researchers' moodiness;

Above all, God, who created all living and non-living things for the satisfaction of the researchers' thirst for discovery and hunger for knowledge.

- *S.M.D.L and L.G.D*



TABLE OF CONTENTS

Title Page	i
Abstract	2
Approval Sheet	3
Acknowledgements	4
Table of Contents	6
CHAPTER 1 INTRODUCTION	
1.1 Background of the Study	8
1.2 Statement of the Problem	10
1.3 Scope and Limitations	11
1.4 Significance of the Study	11
1.5 Definition of Terms	12
CHAPTER 2 LITERATURE REVIEW	
2.1 Conceptual Literature	14
2.2 Related Studies	21
CHAPTER 3 METHODOLOGY	
3.1 Research Design	27
3.2 Research Setting	27
3.3 Research Procedure	28
3.4 Data Gathering and Statistical Analysis	31



CHAPTER 4 RESULTS AND DISCUSSION

4.1 Results 33

4.2 Discussion 42

CHAPTER 5 CONCLUSION AND RECOMMENDATIONS

4.1 Conclusion 51

4.2 Recommendation 51

Cited References 53

Appendices

A. Map of Study Site 62

B. Standard Procedure 63

C. Questionnaire 65

D. Raw Data 68

E. Photo documentation 72

F. Curriculum Vitae 77