

**PREVALENCE OF INTESTINAL PARASITES IN BRAHMAN  
AND MAGAR COMMUNITY OF RIMUWA VDC, GULMI**



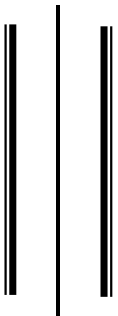
**A Thesis**

**Submitted in Partial Fulfillment of the Requirements for the  
Master's Degree in Zoology with Special Paper Parasitology**



**Submitted by**

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2008**

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**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
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**KIRTIPUR, KATHMANDU,**  
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**Letter of Recommendation**

It is my pleasure to mention here that Mr. Badri Nayak has completed his dissertation work entitled "**Prevalence of Intestinal Parasites in Brahman and Magar Community of Rimuwa VDC, Gulmi**" as a partial fulfillment of the M.Sc. Degree in Zoology (Parasitology) under my supervision and guidance. To my knowledge his work has not been submitted for any other degree. His work is an original one and deserve to recommendation.

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**Letter of Approval**

On the recommendation of supervisor Mr. Janak Raj Subedi and co-supervisor Mr. Pitambar Dhakal, this dissertation work of Mr. Badri Nayak is approved for the examination and is submitted to the Tribhuvan University in partial fulfillment of the requirements for the degree of Master of Science in Zoology with Parasitology as a special paper.

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## **ACKNOWLEDGEMENT**

First of all, I would like to express my hearty appreciation to thesis supervisor, Mr. Janak Raj Subedi, Lecturer and Co-supervisor Pitambar Dhakal, Lecturer for his able guidance, critical suggestions and encouragement support, co-operation and supervision through out this study.

I express my gratitude to Prof. Dr. Vasanta Kumar Thapa, Head of Central Department of Zoology for providing the all facilities and other suggestions to complete my thesis.

I would like to extend my gratitude to associate Prof. Dr. Ranjana Gupta, Mr. Ashok Bahadur Bam and all teaching and non-teaching staffs of central department of Zoology, giving me good suggestions and help.

I would like to express my special gratitude to my parents for their love, encouragement help and suggestions, which I received through the academic career.

I would like to express my thanks to Ram Narayan Mahto, Sheskant Paudel, Kul Bahadur Kala, Bisnu Kala, Naveen Nayak, Sapana Kumari, Dhiraj Mahasetha, Jeevan Phokhrel for their kind encouragement to whole of research work. I thanks to Mr. Priyashwor Maharjan and Mr. Dinesh Maharjan (Serve Photocopy and Computer Service, Kirtipur) for their excellent computer typing and Printing in time.

At last but not least, I would like to extend my appreciation to my 'Heart' Indu Mahaseth without her support I could not complete this work.

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## ABSTRACT

In the present study entitled "**Prevalence of Intestinal Parasites in Brahman and Magar Community of Rimuwa V.D.C., Gulmi**", a household survey was carried out to determine knowledge, attitude and practices (KAP) regarding intestinal parasites by means of a structural questionnaire. A total of 250 stool samples were examined. Out of 250 samples, 100 samples were collected and examined in the Brahman community in which 25% were found to be suffering from 7 different kinds of intestinal parasites but 150 samples were collected and examined in the Magar community in which 30% were found to be suffering from similar kinds of parasites as Brahman. *Entamoeba histolytica* was the most dominant intestinal parasite (7.2%) followed by *Giardia lamblia* (5.2%), *Ancylostoma duodenale* (4.8%), *Ascaris lumbricoides* (4%), *Trichiuris trichiura* (2.8%), *S. stercoralis* (2%) and *H. nana* (2%). Out of 250 samples examined, the prevalence of intestinal helminth parasites was higher in Magar (16.66%) than Brahman (14%) while the prevalence of intestinal protozoan parasites was higher in Magar (13.33%) community than Brahman (11%) community. Regarding the sex-wise distribution of parasites, Magar females (16.66%) were highly affected by intestinal parasites than Brahman female (14%), while Magar males (13.33%) were highly affected by intestinal parasites than Brahman male (11%). The prevalence rate of intestinal parasites in females was found to be slightly higher than males in both. According to age-wise distribution of parasites, the highest positivity was encountered in the age group 0-10 years in both communities, while the lowest positivity was encountered in the age group above 10 years in both communities. The survey study also revealed that the literacy rate of Magar was very low than that of the Brahman community. Hence, for control of parasitic infection, an integrated health programme should be implemented.

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## ABBREVIATIONS

µm	:	Micrometer
CBS	:	Central Bureau of Statistics
CDZ	:	Central Department of Zoology
cm	:	centimeter
i.e.	:	That is
KAP	:	Knowledge Attitude and Practice
mm	:	Millimeter
rpm	:	Round per minute
sq.km.	:	Square Kilometer
T.U.	:	Tribhuvan University
VDC	:	Village Development Committee
WHO	:	World Health Organization