BASE LINE HEALTH SURVEY AND PREVALENCE OF INTESTINAL PARASITIES AMONG THE CHILDREN IN KANTI CHILDREN'S HOSPITAL, MAHARAJGUNJ, KATHMANDU NEPAL

A DISSERTATION

SUBMITTED IN PARTIAL FULFULLMENT OF THE REQUIREMENTS FOR THE MASTER'S DEGREE IN SCIENCE

IN

PARASITOLOGY

BY

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RECOMMENDATION

It is my pleasure to mention here **Mrs. Anita Kunwar** has carried out the thesis work entitled **"BASE LINE HEALTH SURVEY AND PREVALENCE OF INTESTINAL PARASITIES AMONG THE CHILDREN IN KANTI CHILDREN'S HOSPITAL MAHARAJGUNJ, KATHMANDU, NEPAL"** for the partial fulfillment of the **M. Sc. Degree in Zoology (Parasitology)** under my supervision and guidance. To the best of my knowledge, this is an original research study and brings out useful results and finding in the concerned field.

I strongly recommend this thesis for approval for the partial fulfillment of the requirement for the Master's Degree of Science in Zoology (Parasitology).

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DECLARATION

I hereby declare that the work presented in this thesis has been done by myself and has not been submitted elsewhere for the award of any degree. All sources of information has been specifically acknowledged by references to the authors or institutions

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ABSTRACT

The present study was carried out with prepared questionnaires to determine knowledge, attitudes and practices regarding intestinal parasites in children's of age group 0-14 years from two seasons. Altogether 328 stool samples of different age group of children were collected. In this present study children suffered from eight different kinds of intestinal parasites. *Giardia lamblia* (14.32%) was the most commonly found as protozoan parasite followed by *E. histolytica* (8.84%) and *Ascaris lumbricoides* (9.14%) was as helminth parasites followed by *A. doudenale* (1.82%), *T. trichiura* (0.91%), *S. stercoralis* (1.52%) *H. nana* (0.60%), *E.vermicularis* (0.30%) The prevalence rate of intestinal parasite infection in male (38.76%) was found to be slightly higher than female (36.00%) without statistically significant (χ^2cal= 0.24. χ^2cal<$\chi^2$0.05 at 1 d.f.). Positivity of the intestinal parasitic infection is dependent on age factors (χ^2cal = 18.88, χ^2cal> $\chi^2$0.05 at 4 d.f.). Hence the highest prevalence was found in 9-11 (56.92%) years age group where as the minimum prevalence observed in children of age group 0-2 (23.68%) years. Out of 123 positive samples, 91.86% showed single infection, 7.31% showed double infection and 0.81% showed multiple infection. The prevalence of intestinal parasites was found highest in those children who used to drink water without any treatment, cutting nail habit, with open air defecation practice having non-vegetarian feeding habit and lack of awareness.

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ABBREVATION

cm	: Centimeter
gm	: Gram
Govt.	: Government
IEPPCP	: Integrated Family Planning and Parasite control Project
Inf	: Infection
JNMA	: Journal of Nepal Medical Association
mg	: Milligram
ml	: Milliliter
mm	: Millimeter
pp	: Page Number
nm	: Nanometer
sp	: Species
T.U.	: Tribhuvan University
+ve	: Positive
W.H.O.	: World Health Organization
µm	: Micrometer