ACKNOWLEDGEMENT

I take this opportunity to record my deepest gratitude to my supervisor, Professor Sohail Ahmad, Incharge, Parasitology laboratory, Department of Microbiology, Jawaharlal Nehru Medical College (JNMC), Aligarh Muslim University, Aligarh, for his sagacious guidance and immutable inspiration throughout this work. His apt and prompt handling of various problems greatly facilitated the smooth effectation of this thesis.

I am beholden to Professor Ashok Bal, Chairman, Department of Microbiology, JNMC, Aligarh for his opitulation and kind permission to use facilities of the department.

I am also indebted to Professor Wasim A. Siddiqui of Department of Tropical Medicine and Medical Microbiology, Jhon A. Burns School of Medicine, University of Hawaii, Honolulu, Hawaii, U.S.A, for providing innumerable research gifts by way of chemicals and reprints to this laboratory.

I express deep thanks to Professor Mahdi Hasan, Department of Anatomy, JNMC, Aligarh for providing help in preparation of histological slides. I am also obliged to Dr (Mrs) Veena Maheshwari, Department of Pathology, JNMC, Aligarh for the pains taken in examining a large number of histopathological slides.

I am thankful to Dr. Haris M. Khan, Lecturer in Microbiology, JNMC, Aligarh for his succour. Thanks are also due to my senior colleagues Dr. Raka Khanna and Dr. Abbas A.
Mahdi for their encouragement and other colleagues, namely Mr. M.H. Ansari, Mrs Azra Mahdi, Mrs. Huma Umar, Miss Farrah, Mr Khalid Nasir and Mr. Ghazanfar A, Khan for their co-operation.

I would also like to acknowledge the assistance of Mr. Shoukat Ali and Mr. Shahbuddin Ali of Department of Anatomy, JNMC, Aligarh in preparation of histochemical and histopathological slides.

Special thanks are also due to the staff of Audio Visual Section, particularly to Mr. S. Mujeeb and M.A. Khan for the preparation of photograph. I wish to express my thanks to Mr. Shammiual Hasan and Mr Wasi Hasan Naqvi of Store Section (Microbiology, JNMC) and to the laboratory attendants, Mr. Munna lal, Mr. Brij Mohan and Mr. Mohammad Shakeel for their assistance.

Finally, I would like to thank Mr. Owais Ahmad (Micro Services Centre, Aligarh) for wordprocessing of this thesis.

(Sabiha)