Acknowledgements

It is my immense pleasure to express my heartfelt gratitude and reverence to my guide and mentor, Dr. Zachariah Bobby, for his constant encouragement, meticulous guidance and valuable counseling that helped me in the successful completion of the project. I thank him for giving me the privilege to work under his guidance.

I sincerely acknowledge my doctoral committee advisors Dr. S. L. Hotti, Deputy Director, VCRC, Puducherry, Dr. S. C. Parija, Director-Professor and Head, Department of Microbiology, JIPMER, Puducherry for their critical evaluation of the proceedings, valuable suggestions and guidance during every stage of this study. I’m indebted for their inspiration as well as the affectionate dealings.

I’m grateful to Dr. R. Sambasiva Rao, former Director of JIPMER, Dr. K. S. V. K. Subba Rao, Director, Dr. A. K. Das, Medical Superintendent and Dr. K. S. Reddy, Dean, JIPMER, Puducherry for providing institutional facilities for undertaking this study.

I’m highly obliged and thankful to Dr. M. G. Sridhar, Professor and Head of Biochemistry, JIPMER for his unconditional help, kind guidance and valuable suggestions during the entire period of my study and beyond.

I express my hearty thanks to my Co-Guide Dr. Abdhul Hamide, Professor of Medicine and his unit for their valuable suggestions for patient classification and selection of appropriate control subjects.

I’m grateful to Dr. L. Kole, Principal Scientist, GVK Pharmaceuticals, Hyderabad, Dr. S. K. Sharma, Senior Scientist, Mrs. Sowjanya, Junior Scientist, Miss. Manjukumari, Junior Scientist, Dr. Reddy’s Laboratories, Hyderabad, Dr. Sunil Manna, Scientist, CDFD, Hyderabad for their kind help and suggestion in standardization of various techniques. Their constant support and help is the backbone of this study.
I sincerely acknowledge Indian council of medical research (ICMR) for providing me financial assistance in the form of junior and senior research fellowship.

I’m thankful to Dr.Adithan, Director-Professor and Head of Pharmacology, Dr.Ramachandra Rao, Director-Professor and Head of Anatomy, Dr.V.S.Negi, Professor of medicine for permitting me to use their laboratory facilities.

I’m highly obliged and thankful to Mr.Selvaraj, Miss.Sathyapriya, Miss. Nivedita, Mrs. Smitha, Ph.D scholars, Department of Biochemistry, JIPMER for their kind cooperation during the entire period of my study. I’m thankful to all for their brotherly affection and consistent help till date.

A note of thanks to the present and former residents and MSc students in my department for the friendly environment and help in their own way. A special note of appreciation and thanks to Mr.Thiruvaimozhi, Mr.Arul and Miss.Parvathi for their help and cooperation in the study.

I’m thankful to Biochemists Mr.Ranganathan, Mr.Muniswamy, Mr.Kandaswamy, and Mrs. Padmavathy, Stenographers Mr.Pachayappan and Mr.Barathlingam, Storekeepers Mr.Angappan and Mrs.Selvi, Lab technicians Mr.Gopal, Mr.Senthil, Mr.Srinivasan, Mr.Vijayan, Mr.Rajendran, Supporting staffs Mr.Jothi, Mrs.Sanath kumari, Mr. Paramathayalan, Mr. Pachayappan, Mr. Ayyanar and other technical and supporting staff of the Department of Biochemistry for their kind help and cooperation during my study.

I sincerely acknowledge the help of Mr.Balakrishnan, Technical supervisor, Mr.Rattinadase and Mr.Venketraman for their invaluable technical assistance and suggestions through out the study period. I appreciate their kind help in the laboratory even in late hours.
I feel personally obliged and take the opportunity to thank my friends Miss.Umadevi, Mrs.Cynthia, Mr.Suryapракash, Mr.Ramesh, Mr.Gowrishanker, Mr.Rajesh, Mr.Krishna and Mr.Chandru, Dr. Ramesh, Dr. Nanthesha, Dr.Nanthakumar and Dr.Asmath whose wishes have helped in the completion of this task.

I would like to acknowledge the Central Library, JIPMER and National Medical Library, New Delhi for the literature survey and information needed from time to time during the study period.

I acknowledge the timely help I’ve got from the staff members of Animal house, Purchase Department, Accounts Department, Medical Record Division, Central Workshop, JIPMER, Puducherry.

I would like to acknowledge all the patients and control subjects included in this study without whose cooperation this study would have not been completed. I’m grateful to all of them.

I sincerely acknowledge the inspiration, constant encouragement and love I’ve got from my parents, sisters, brothers and family members which brought me to this stage today.

Vinayagamoorthi.R