I have a great pride in dedicating my deep sense of gratitude to Dr. (Mrs.) J. V. Ganu Associate Professor & Research guide, Dept. of Biochemistry, Government Medical College, Miraj for their invaluable guidance, encouragement and advice which enabled me to complete this research work.

I am grateful to Dr. S. G. Chavan Dean Government Medical College Miraj allowing me to carry out this study.

I am grateful acknowledge to Dr. M. P. Bankar Professor and Head of Department of Biochemistry and Dr. S. M. Pawar Associate Professor, Department of Biochemistry, Government Medical College, Miraj for their timely suggestions and guidance in completion of this work.

I am very thankful to Dr. Milind Kulkarni Ortho Hospital and Post Graduate Institute of Swastiyog Pratishtan, Miraj for their permission of help to carry the work.

I am thankful to Dr. Nitin Nagane, Mr. Sandip Satpute and Mr. K. N. Pujari for their valuable co-operation.

I am also thankful of Rehman, Anil, Ganesh, Sangita, Pranali, Asmita and Aarti for their help and co-operation.

I am very grateful to my mister Mr. Ramesh, my mother Sushila and my friend Varsha who looked my daughter Utkarsha and I must appreciate the patience of my son Swagat which he showed while I was very busy in this work.

Finally, I cannot forget to thank all patients for their invaluable co-operation without which this study would not have been completed.

Vanita R. Jagtap