ACKNOWLEDGEMENTS

First and foremost I would like to express my gratitude to ALLAH S.W.T that gave me the possibility to complete this thesis. It is with great pleasure for me to take this opportunity to thank Assoc. Prof. Dr. Sameem Abdul Kareem for her invaluable guidance and supervision in making this research possible for me.

Beside that, I would like to express my appreciation to Dr. Nur Aishah Mohd Taib, who provided the means to access the UMMC's breast cancer data set and also her guidance and sharing of her vast experience in the field of breast cancer. Thanks also to Tuan Hj. Ismail Ahmad and his staff from Registration Department of Malaysia in their cooperation by providing us the dates of the patients demise.

I would also like to thank the Dean of Faculty of Computer Science and Information Technology, University Putra Malaysia (UPM) for the opportunities he has given me and also UPM for providing me a financial support throughout my study.

Much appreciation also goes to my husband, Kamal bin Taib with his encouragement and indirectly helping in making this research a reality and to my daughter Nur Atiqah, you are always in my mind.

Lastly, I would like to thank my family and friends who have given me the necessary support and assistance during the writing of this thesis.