بسم الله الرحمن الرحيم

Sudan University of science & Technology College of Graduate Sudies

A LOGISTIC REGRESSION MODEL TO PREDICT NODEL MALIGNANCY AMONG CASE WITH PROSTATE CANCER

A thesis Submitted as Partial Fulfillment for the M.Sc. Degree in Applied Statistics

By

Fatima Ahmed Ibrahim Adam

Supervised by

Dr .Hamed Humeida

Des 2005

Dedication

To my lovely mother

and

my great father

To my lovely sisters & brothers

To all people I hope them

to have healthy life

Fatima

Acknowledgement

At the beginning and at the end all thanks Allah, for helping me in doing and completing this work.

My grateful thanks to my supervisor Dr. Hamed Humeida, head of department of applied statistics college of sciences, Sudan University of science and technology, who help me with his time and patience and knowledge. I thank him deeply for his advices and supervision.

Special thanks to Dr. Bssam Yonis Ibrahim, for his help and valuable advices.

Special thanks to Dr. Abdala Abd Elrahman Ahmed Consultant of urinary system khartoum Emergency Hospital for his great help and valuable advices and for providing all the possible facilities to me.

Special thanks and acknowledgement to: Ms Haidar Awad Abd Elgader, head of department of statistic unit and Dr. Riyaed Alamin Mustafa, head of department of Labrortory & blood bank in the Radiation & Isotopes Center – Khartoum (Rick) for there kindness help.

Best regards to my family for there encouragement during the period of the research to over come all the difficulties which faced me.

My thanks to my sisters Nessrin , Amel, my brother Mohmed and for all my friends, for their great support until I complete this work

My thanks to all people who helped me and I may miss to say their name.