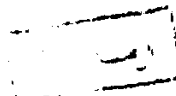


**MEASUREMENT OF THE SERUM TUMOUR MARKER
NEURON-SPECIFIC ENOLASE
IN CHILDREN WITH
BENIGN PULMONARY DISEASES**

Thesis
Submitted for Partial fulfillment
Master Degree in Pediatrics



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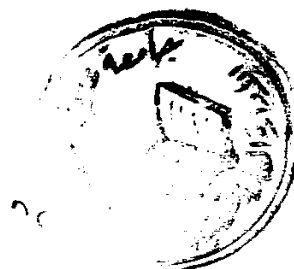
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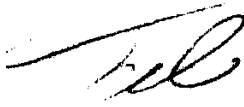
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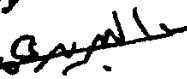
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DEDICATION

Forgive me when I dedicate this manuscript to every member of my family by name .

Everyone of them have helped me in his own special way ,but all of all they gathered to encourage me fulfill my dream to put all my effort to finish this work and put it in its best way .

To every one of them I 'm greatly indebted .

To my Mother ,Father Mohamed ,brother Ahmed ,sisters Soha and Maha .

**To my uncles ; Hamdy ,Bakaa and Elhamdy .
To Aunty Ragaa and my cousin Mohamed Hamdy .**

I would like to thank my child Saif El Ham and my infant Bahey El Deen for allowing me to take part of their time to finish this work .

Last but not least , I like to thank my husband ,Khalid for what he has done .

Finally , I would like to dedicate this Manuscript to my Father Fouad Allah bless him .

G.I.A.MCCOBBY

CONTENTS

	Page
-INTRODUCTION & AIM OF THE WORK-----	1
-REVIEW OF LITERATURE :-	
• Tumour Markers-----	4
• Enzymes As Tumour Markers-----	17
• Chest Diseases In Children -----	30
• Correlation Between Neuron Specific Enolase And Benign Chest Disease-----	56
-SUBJECTS AND METHOD-----	60
-RESULTS-----	69
-DISCUSSION-----	86
-SUMMARY AND CONCLUSION-----	100
-RECOMMENDATIONS-----	104
-REFERENCES-----	105
-ARABIC SUMMARY-----	

LIST OF FIGURES

Figure		Page
1	Examples of Two ROC curve -----	8
2	Description between the healthy subjects group and the tumour patients group with the parameters tumour marker -----	12
3	Enolase catalyzed glycolytic reaction -----	25
4	Histogram Showing Mean and SEM of ESR level in patients with benign chest diseases -----	80
5	Histogram Showing each group of benign chest diseases -----	81
6	Histogram Showing tumour marker level in children with benign chest diseases -----	82
7	Histogram Showing tumour marker level in Control group -----	83
8	Histogram Showing mean, SEM, p & t in Tuberculous pt -----	84
9	Histogram Showing Mean, SEM, t and p in cases and control -----	85

LIST OF ABBREVIATION

ACP	: Acid Phosphatase
AIDS	: Auto Immune Deficiency Syndrome
ALL	: Acute Lymphatic Leukemia
ALP	: Alkaline Phosphatase
APUD	: Amino Precursor Uptake and Decarboxylation
CA	: Cancer Antigen 125
CBC	: Complete Blood Count
CEA	: Carcino Embryonic Antigen
CF	: Cystic Fibrosis
CK	: Creatine Kinase
CMV	: Cytomegalovirus
CNS	: Central Nervous System
CSF	: Cerebro Spinal Fluid
ECG	: Electrocardiogram
EIA	: Enzyme Immuno Assay
ESR	: Erythrocytic Sedimentation Rate
FEV1	: Forced Expiratory Volume I
FVC	: Forced Vital Capacity
GGT	: Gamma-Glutaryl Transferase
IgE	: Immunoglobulin E
IgG	: Immunoglobulin G
LDH	: Lactate Dehydrogenase
NSE	: Non-Neuronal Enolase
NSCLC	: Non-Small Cell Lung Cancer
NSE	: Neuron-Specific Enolase

NTP	: 5-Nucleotidase
PAP	: Prostatic Acid Phosphatase
PEFR	: Peak Expiratory Flow Rate
PL-ALP	: Placental type alkaline Phosphatase
PSA	:Prostatic Specific Antigen
RB	: Reagent Blank
ROC	:Receiver Operating Characteristic
RSV	: Respiratory Syncytial Virus
SCC-A	: Squamous Cell Carcinoma Antigen
SCC	: Squamous Cell Carcinoma
SCLC	: Small Cell Lung Cancer
SEM	: Standard error of the mean
TDT	: Terminal Deoxynucleotidyl Transferase
TK	: Thymidine Kinase
TPA	: Tissue Polypeptide Antigen

