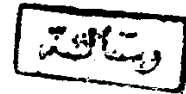




STUDIES ON IMMUNOGLOBULIN E REGULATORY MECHANISM AND THE ATOPIC STATE IN INTRINSIC ASTHMA

Thesis
Submitted in partial fulfillment of
M.D. Degree in
Internal Medicine



616.238
H-M.

By

Hussein Mohamed Sayed Haridy
(M.B., B.Ch.; M.Sc., Ain Shams University)

Supervised By

56606

Prof. Dr. Diaa El-Din Soliman

Head of Internal Medicine Department and
Prof of Internal Medicine and Allergy
Faculty of Medicine, Ain Shams University

Prof. Dr. Ali Khalifa

Prof. of Biochemistry and
Head of Tumour Marker Unit
Faculty of Medicine, Ain Shams University

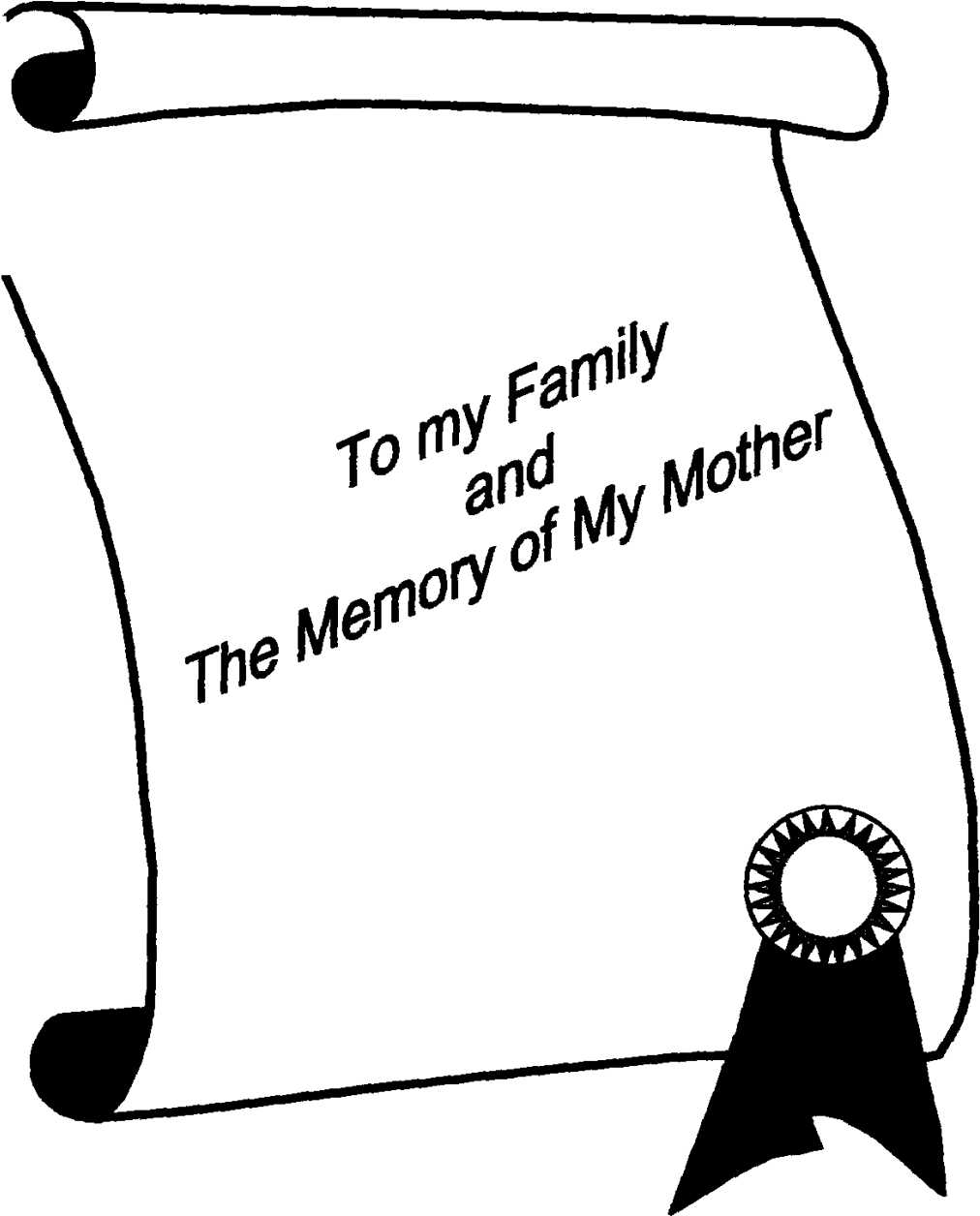
Pof. Dr. Mohammed Kamel Sabry

Prof. of Internal Medicine and Allergy
Faculty of Medicine, Ain Shams University

FACULTY OF MEDICINE
AIN SHAMS UNIVERSITY
1999

Handwritten signatures and initials, including 'C-7/C18' and 'MR Sabry'.





To my Family
and
The Memory of My Mother

ACKNOWLEDGEMENT

First and foremost thanks for GOD, the most kind and most merciful.

I would like to declare that I was fortunate to work under the supervision of this group of staff.

I would like to express my deepest appreciation to **Prof. Dr. Mohammed Diao El-Din Soliman**, Professor and Head of Internal Medicine Department, Faculty of Medicine, Ain Shams University, for his continuous supervision, and encouragement and assistance that made this work achievable.

I am deeply thankful to **Prof. Dr. Ali Khalifa**, Professor of Biochemistry and Head of Tumour Marker Unit Faculty of Medicine, Ain Shams University, for his constant support and co-operation throughout this work.

Also, my deepest gratitude is directed to **Dr. Mohammed Kamel Sabry**, Professor of Internal Medicine and Allergy, Faculty of Medicine, Ain Shams University for his continuous effort in supervising this work.

I would like to express my deep thanks and sincere appreciation to **Ass.Prof. Dr. Sanna Eysa**, Assistant Professor of Biochemistry, Faculty of Medicine, Ain Shams University, for her great help

I want to extend my deep thanks and appreciation to all Medical Department in Saudia Arabian Texaco Inc. for their every thing they give it to me to finish this work.

Thanks to God.

CONTENTS

	Page
Introduction	1
Aim of the work	2
Review of Literature	
Bronchial Asthma	3
IgE	76
Interleukin-4	102
INF gamma	108
Patients and Methods	122
Results	132
Discussion	143
Summary	153
Recommendations	155
References	156
Arabic Summary	--

LIST OF ABBREVIATION

Ab	: Antibody
AD	: Atopic dermatitis
CIgE	: Cytoplasmic IgE
Con-A	: Conconvacalin A
COPD	: Chronic obstructive pulmonary disease
EBV	: Epstein Barr virus
ELISA	: Enzyme linked immunosorbent assay
FEV1	: Forced expiratory volume
FRC	: Functional residual capacity
IL	: Interleukin
INF-α	: Interferon-alpha
INF-γ	: Interferon-gamma
IFNs	: Interferons
MAb	: Monocolonal antibody
MNC	: Mononuclear cells
PBMC	: Peripheral blood mononuclear cells
RhIL-4	: Recombinant human interleukin-4.
S region	: Recombinant
TCXR	: T cell receptor
TGF-B	: Transforming growth factor B
TLC	: Total lung capacity
PBL	: Peripheral blood lymphocytes
LPS	: Lipopolysaccharide

