



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %



شبكة المعلومات الجامعية



بعض الوثائق الأصلية تالفة



شبكة المعلومات الجامعية



بالرسالة صفحات
لم ترد بالأصل

Plasma and Cell Culture Supernate Eotaxin Levels in Children with Bronchial Asthma

Thesis

*Submitted in the partial fulfillment of requirements of
a Master degree in Pediatrics*

By

Mona Mahmoud Soliman
MB, BCh - Ain Shams University

نورثه رشدي
C-1/9/96

Under the supervision of:

Prof. Elham Mohammad Hossny
Professor of Pediatrics - Ain Shams University

af 1/2/1

**Dr. Mohamed Hisham Mohamed Ezzat
Abdel Hameed**

Lecturer of Pediatrics - Ain Shams University

Dr. Salwa Ibrahim Bakr

Lecturer of Clinical Pathology - Ain Shams University

B9110

*Faculty of Medicine
Ain Shams University
2001*

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَعَلَّمَكَ مَا لَمْ تَكُنْ

تَعْلَمُ وَكَانَ فَضْلُ اللَّهِ

عَلَيْكَ عَظِيمًا

صدق الله العظيم

النساء آية ١١٣

Acknowledgments

الحمد لله رب العالمين

I would like to express my endless gratitude and appreciation to Prof. Elham Hossny, professor of pediatrics, Ain Shams University, for giving me the opportunity to work under her meticulous supervision. Her honest assistance and patience make me truly indebted to her.

I am also grateful to Dr. Mohamed Hesham Ezzat, lecturer of pediatrics, Ain Shams University for his kind effort and support that made achievement of this work possible.

The sincere help and enormous effort of Dr. Salwa Bakr, lecturer of clinical pathology, Ain Shams University is truly acknowledged. She gave me a lot of her valuable time to achieve the laboratory part of this work.

A great deal of my gratitude goes to the children and their parents for their kind cooperation and patience.

To my parents, husband and great family, I owe my utmost gratitude for their support and understanding.

Mona Soliman

List of Contents

	<i>Page</i>
List of Abbreviations	I
List of Figures	III
List of Tables	IV
Introduction and Aim of the Work	1
Review of Literature	3
Bronchial asthma	3
- <i>Definition</i>	3
- <i>Epidemiology</i>	3
Pathogenesis of Allergy	4
- <i>Immunoglobulin E (IgE)</i>	5
- <i>Immunoglobulin D (IgD)</i>	8
- <i>Cell cooperation in allergy</i>	8
<i>Mast cells</i>	8
<i>Eosinophils</i>	9
<i>Basophils</i>	11
- <i>Cytokines</i>	12
<i>Interferons</i>	12
<i>Interferon gamma</i>	13
<i>Interleukins</i>	13
<i>Colony stimulating factors</i>	14
<i>Other cytokines</i>	14
Chemokines	15
<i>Members of chemokine subfamilies</i>	16
Eotaxin	18
<i>Molecular cloning and characterization of human eotaxin receptor</i>	19

List of Contents (Cont.)

	<i>Page</i>
<i>Kinetics of eotaxin generation</i>	21
<i>Effect of Th2 cytokines on eotaxin expression</i>	22
<i>Natural eotaxin variants</i>	23
<i>Functional analogue of eotaxin</i>	23
<i>Eotaxin antagonists</i>	24
 Subjects and Methods	 27
 Results	 31
 Discussion	 45
 Recommendations	 53
 Summary	 54
 References	 57
 Arabic Summary	

List of Abbreviations

AIDS	:	Acquired immune deficiency syndrome
BaHR	:	Basophil histamine releasability
BAL	:	Bronchoalveolar lavage
BHR	:	Bronchial hyperreactivity
C3	:	Complement 3
CCR	:	Chemokine chemotactic receptor
CK beta 7	:	Chemokine beta 7
CSF	:	Colony stimulating factor
CTMC	:	Connective tissue mast cells
DNA	:	Deoxyribonucleic acid
ECP	:	Eosinophil cationic protein
EDN	:	Eosinophil derived neurotoxin
EDTA	:	Ethylene diamine tetra acetate.
ELISA	:	Enzyme linked immunosorbent assay
ENA-78	:	Epithelial derived neutrophil activating peptide
F _{CE} RI	:	High affinity receptors for IgE
GM-CSF	:	Granulocyte macrophage colony stimulating factor
GRO	:	Growth regulated oncogen
HIV	:	Human immune deficiency virus
IFNs	:	Interferons
IgA	:	Immunoglobulin A
IgD	:	Immunoglobulin D
IgE	:	Immunoglobulin E
IgG	:	Immunoglobulin G
IgG2	:	Immunoglobulin G2
ILs	:	Interleukins
IL-8RA	:	Interleukin (8) receptor (A).
IP-10	:	Interferon gamma inducible protein of 10 kd
Kda	:	Kilo dalton
LTB ₄	:	Leukotriene B4

List of Abbreviations (Cont.)

LTC ₄	:	Leukotriene C4
LTD ₄	:	Leukotriene D4
mAb	:	Monoclonal antibody
MBP	:	Major basic protein
MCP	:	Monocyte chemotactic protein
M-CSF	:	Macrophage colony stimulating factor
MIP	:	Macrophage inflammatory protein
MMC	:	Mucosal mast cells
mRNA	:	Messenger ribonucleic acid
Mw	:	Molecular weight
NAP-2	:	Neutrophil activating protein 2
NK cells	:	Natural killer cells
PAF	:	Platelet activating factor
PGD ₂	:	Prostaglandin D ₂
RANTES	:	Regulated on activation normal T cell expressed and secreted
SD	:	Standard deviation
TGF	:	Transforming growth factor
Th	:	T-helper cells
TNF	:	Tumor necrosis factor