

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



SALWA AKL



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم



SALWA AKL

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغييرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



SALWA AKL



بعض الوثائق

الأصلية تالفة



SALWA AKL



بالرسالة صفحات

لم ترد بالأصل



SALWA AKL

**Evaluation of Airway Inflammation
In Bronchial Asthma**

B 170 74

THESIS

Submitted to Faculty of Medicine
University of Alexandria

In Partial Fulfillment of the Requirements
for the Degree of
MASTER OF CHEST DISEASES AND TUBERCULOSIS

BY

Rasha Galal Daabis

(MBBch, Alex.)
Faculty of Medicine
University of Alexandria

Supervisors

Prof. Dr. Magdy Ali Abou Rayan,

Professor of Chest Diseases

Faculty of Medicine

University of Alexandria

Prof. Dr. Abdel Moneim Kamel Rabea

Professor of Chest Diseases

Faculty of Medicine

University of Alexandria

Dr. Wessam Mohamed El-Gindy

Lecturer of Clinical Pathology

Faculty of Medicine

University of Alexandria

Co-Worker

Dr. Mahmoud Ibrahim Mahmoud

Lecturer of Chest Diseases

Faculty of Medicine

University of Alexandria

Dedicated to;

My Father

Who taught me the value of knowledge

*All praise to God, the most Gracious, Most Merciful,
The fount of all wisdom.*

I would like to express my deepest gratitude to **Prof. Dr Magdy Abou Rayan**, Professor of Chest Diseases, for his meticulous supervision, for the whole aspects of the thesis, given regardless of his many professional and personal commitments during the period of my study, and the golden chance he offered me by being one of this great team work.

I am deeply indebted to **Prof. Dr Abd El-Moneim Rabie**, Professor of Chest Diseases, for his precious effort and time spent in guidance and supervision all though this work, which would have never seen the light without his valuable advice.

I express my deepest gratitude and appreciation to **Dr Wessam El-Gindy**, Lecturer of Clinical Pathology, for her continuous help, expert supervision and limitless efforts to complete this work.

I owe **Dr. Mahmoud Ibrahim** lecturer of Chest Diseases, much more than gratitude and appreciation. He taught me the meaning of accuracy and the value of perfection as he offered a lot of concern and indispensable advice, enlightening the points and paving the tracks of thoughts through the whole work.

I would like to seize the opportunity to express my deepest gratitude and appreciation to **Professor Dr. Suzane Helal**, professor of Pathology, who gave me a lot of her time, effort, experience and helpful instructions to complete this work.

My deepest thanks to the members of the Chest Department laboratory for their great technical assistance during the whole work.

Last but not least, I would like to express my deepest gratitude to all the members of my family, my best friend and my colleagues for their moral support throughout this work.

List of Abbreviations

AM	: Alveolar macrophage
ATS	: American thoracic Society
BAL	: Bronchoalveolar lavage
BALF	: Bronchoalveolar lavage fluid
BC	: Breath condensate
bFGF	: Basic fibroblast growth factor
BW	: Bronchial wash
cAMP	: Cyclic adenosine monophosphate
cGMP	: Cyclic guanosine monophosphate
CK	: Cytokine
CO	: Carbon monoxide
COX	: Cyclooxygenase
Dlco	: Diffusion lung carbon monoxide
ECF-A	: Eosinophil chemotactic factor of anaphylaxis
ECM	: Extracellular matrix
ECP	: Eosinophil cationic Protein
EDN	: Eosinophil derived neurotoxin
ELAM	: Endothelial leucocyte adhesion molecule
E-NANC	: Excitatory non-adrenergic, non-cholinergic
EPO	: Eosinophil Peroxidase
EPX	: Eosinophil protein x
E-selectin	: Endothelial selectin
Fe	: Fragment crystallizable
FEF25-75%	: Expiratory flow rate between 25-75% of the forced vital capacity.
FEV1	: Forced expiratory volume in the first second.
FITC	: Fluorescein isothiocyanate
FMLP	: Formyl-methionyl - Leucyl - Phenylalanine
FVC	: Forced vital capacity
GM-CSF	: Granulocyte macrophage colony stimulating factor
HA	: Hyaluronic acid
H & E	: Haematoxylin and Eosin
HETE	: Hydroxy eicosatetraenoic acid
HLA	: Human leucocyte antigen
HLMC	: Human lung mast cell
H2O2	: Hydrogen Peroxide
ICAM	: Intercellular adhesion molecule

IFN-γ	: Interferon gamma
Ig	: Immunoglobulin
IL	: Interleukin
IM	: Intramuscular
I-NANC	: Inhibitory non adrenergic non cholinergic
IS	: Induced sputum
IV	: Intravenous
LCF	: Lymphocyte chemoattractant factor
LECAMs	: Lectin, epidermal growth factor complement – related cell adhesion molecules
LFA	: Lymphocyte function associated antigen
LPR	: Late phase reaction
L-selectin	: Leukocyte selectin
LT	: Leukotriene
MadCAM	: Mucosal addressin cell adhesion molecule
MAF	: Macrophage activating factor
MBP	: Major basic protein
MCP	: Monocyte chemoattractant protein
MC_T	: Mast cell tryptase
MC_{TC}	: Mast cell tryptase chymase
MIF	: Macrophage migration inhibitory factor
MIP-1α	: Macrophage inflammatory Protein-1 alpha
MMP	: Matrix metalloproteinase
mRNA	: Messenger ribonucleic acid
MVV	: Maximum voluntary ventilation
NANC	: Non adrenergic non cholinergic
NCF-A	: Neutrophil chemotactic factor of anaphylaxis
NK	: Neurokinin
NO	: Nitric oxide
NSBHR	: Non specific bronchial hyperresponsiveness
PAF	: Platelet activating factor
PBS	: Phosphate buffered saline
PDGF	: Platelet derived growth factor
PECAM	: Platelet endothelial cell adhesion molecule
PEF	: Peak expiratory flow
PEFR	: Peak expiratory flow rate
PG	: Prostaglandin
P-selectin	: Platelet selectin

RANTES	: Regulated on activation, normal T-cell expressed and secreted.
Rpm	: Revolutions per minute
RSV	: Respiratory syncytial virus
SP	: Substance P
TCR	: T cell receptor
TGF-β	: Tumour growth factor-beta
TH	: T helper
TLC	: Total lung capacity
TNF-α	: Tumour necrosis factor-alpha
TX	: Thromboxane
VC	: Vital capacity
VCAM	: Vasoactive intestinal peptide
VLA	Very late antigen

Contents

Introduction	1
Aim of the Work	67
Subjects	68
Methods	69
Results	81
Discussion	60
Conclusion.....	210
Summary	212
References	215
Protocol	
Arabic summary	



Introduction

