Medication Adherence and Treatment Satisfaction in Chronic Obstructive Pulmonary Disease and Bronchial Asthma

Thesis

Submitted for Partial Fulfillment of Master Degree in Chest Diseases and Tuberculosis

By

Yosra Elemary Afifi Mohran

M.B, B.CH.

Under Supervision of

Professor: Yasser Mustafa Mohammed

Professor of Chest Diseases

Faculty of Medicine –Ain Shams University

Assistant Professor: Iman Hassan Galal

Assistant Professor of Chest Diseases

Faculty of Medicine –Ain Shams University

Faculty of Medicine
Ain Shams University
2013

بسم الله الرحمن الرحيم

قالوا سبحانك لا علم لنا إلا ما

علمتنا إنك أنت العليم الحكيم

Acknowledgement

Thanks first and last to Allah as we owe him for his great care, support and guidance in every step in our life.

I would like to express my cordial appreciation and infinite gratitude to, ***Prof. Yasser Mustafa Mohammed*** Professor of Chest Diseases, Faculty of Medicine, Ain Shams University for his infinite support, valuable advice and guidance.

I would like to express my deep thanks and gratitude to ***Dr. Iman Hassan Galal,*** Assistant Professor of Chest diseases, Faculty of Medicine, Ain Shams University for his constant support which has been of greatest value in accomplishing this work.

Lastly, I would like to express my deep thanks to every person assisted me to complete this research.

List of Contents

List of Abbreviations

ACCP: American College of Clinical Pharmacy

ACP: American College of Physicians

ACQ5: Asthma Control Questionnaire

ACT: Asthma Control Test

IgE: Immunoglobulin E

Anti -IL-4: Interleukin4

Anti -IL- 5: Interleukin5

Anti -IL-8 : Interleukin8

Anti -IL-13 : Interleukin13

Anti- LTB4: Anti-Leukotriene B4

ATS: American Thoracic Society

BMI: Body Mass Index

COPD: Chronic Obstructive Pulmonary Disease

CS: Corticosteroid

CXCR2: Chemokine (C-X-C Motif) Receptor 2

ERS: European Respiratory Society

ECG: Echocardiography

FEV1: Forced Expiratory Volume 1

FEV6: Forced Expiratory Volume 6

FEV_1/FVC : Forced expiratory volume in first second/ forced vital capacity

FVC: Forced Vital Capacity

GINA: Global Initiative for Asthma

GOLD: Global Initiative for Chronic Obstructive Lung Disease

HIV: Human Immunodeficiency Virus

ICs: Inhaled Corticosteroid

ICU: Intensive Care Unite

LABA: Long Acting Beta-2 Agonists

LABD: Long Acting Bronchodilator

MRC; Medical Research Council

NAEPP: National Asthma Education and Prevention Program

NIV: Noninvasive Mechanical Ventilation

PaCO2; Arterial partial Pressure of Carbon Dioxide

PaO2: Arterial partial Pressure of Oxygen

PEF: Peak Expiratory Flow Rate

PKa: Dissociation Constant

SABA: Short Acting Beta-2 Agonists

SaO2: Oxygen Saturation

TH1: The T helper cell1

TSQM: Treatment Satisfaction Questionnaire for Medication

WHO: World Health Organization

$: Dollar

List of Tables

List of figures