Characteristics and Clinical Outcome of Patients Treated in the Respiratory ICU of Abbassia Chest Hospital

Thesis

Submitted For Partial Fulfillment of Master Degree In Chest Diseases

By

Mohammed Fathy El Tohamy

M.B.B.Ch

Supervisors

Prof. Magdy Mohammed Khalil

Professor of Chest Diseases

Faculty of Medicine - Ain Shams University

Dr. HALA MOHAMMED SALEM

Assistant Professor of Chest Diseases

Faculty of Medicine - Ain Shams University

Faculty of Medicine

Ain Shams University

2019

بسم الله الرحمن الرحيم

سورة البقرة الآية: ٣٢

ACKNOWLEDGMENT

First, All thanks and praise to

ALLAH

For the Blessing of Achieving and Finishing this Work

It is a great honor for me to express my deepest gratitude to ***Prof. Dr. Magdy Mohammed Khalil***, Professor of Chest Diseases, Faculty of Medicine, Ain Shams University for selection of this subject, expert guidance, valuable advice and generous encouragement offered to me throughout this work.

Also, I am deeply thankful and grateful to ***Prof. Dr. Hala Mohammed Salem***, Ass. Professor of Chest Diseases, Faculty of medicine, Ain Shams University for her kind and helpful guidance.

My greet thanks for Prof. ***Dr. Hesham Mortada***, ***Dr. Emad Saad***, ***Dr. Basel Bahaa***, ***Dr. Mona Nasr*** **and** ***Dr. Yasmine El Mosalamy*** at respiratory ICU of Abbasia Chest Hospital for their endless support to facilitate our work.

Lastly, no word can express my thanks and gratitude to every persons helped me in this work and all patients participated in my study.

Mohammed Fathy El Tohamy

DEDICATION

To the persons who was and still supporting me in my life.

To the persons who make me standing up and continue figthing

To

My Family

List of Contents

List of Abbreviations

ABG	Arterial Blood Gases
AECOPD	Acute exacerbation of chronic obstructive pulmonary disease
AFB	Acid fast bacilli
AIPO	Italian Association Of Hospital Pulmonologists
ALI	Acute Lung Injury
ALIVE	Acute Lung Injury Verification of Epidemiology
APACHE	Acute Physiology and Chronic Health Evaluation
APRV	Airway Pressure Release Ventilation
ARDS	Acute Respiratory Distress Syndrome
ATS/IDSA	American Thoracic Society/ Infectious Diseases Society of America
BAL	Bronchoalveolar Lavage
BL	Blood
BTS	British Thoracic Society
CAP	Community-Acquired Pneumonia
CBC	Complete blood count
CESAR	Severe Adult Respiratory Failure
CHF	Congestive Heart Failure
CKD	Chronic kidney disease
COPD	Chronic Obstructive Pulmonary Disease
CPAP	Continuous Positive Airway Pressure
CT	Computed Tomography
CVS	Cerebro vascular stroke

CXR	Chest X ray
DVT	Deep Venous Thrombosis
E.coli	Escherichia coli
ECG	Electrocardiogram
ECMO	Extracorporeal Membrane Oxygenation
ER	Emergency Room
FACTT	Two Fluid-Management Strategies In ARDS Trial
FEV1	Forced Expiratory Volume In 1 Second
FiO2	Fraction of inspired oxygen
FM	Face mask
GCS	Glasgow Coma Scale
GOLD	The Global Initiative For Chronic Obstructive Lung Disease
HAP	Hospital-Acquired Pneumonia
Hb	Haemoglobin
HBV	Hepatitis B Virus
HCV	Hepatitis C Virus
HDU	High Dependency Unit
HFOV	High-Frequency Oscillatory Ventilation
HIV	Human immunodeficiency Virus
HR	Heart Rate
ICS	Inhalation Corticosteroids
ILD	Interstitial Lung Disease
iNO	Inhaled Nitric Oxide
INR	The international normalized ratio
IOM	Institute of Medicine

IPF	Idiopathic pulmonary fibrosis
LIPS	Lung Injury Prediction Score
LOS	Length of stay
LST	Life-Sustaining Technologies
MI	Myocardial infarction
MODS	Multiple Organ Dysfunction Score
MPM	Mortality Probability Model
MRSA	Methicillin-resistant staphylococcus aureus
MV	Mechanical Ventilation
NEMS	Nine Equivalents of Nursing Manpower Use Score
NP	Nasal Pronge
NRCU	Non- Invasive Respiratory Care Unit
NRFM	Non rebreather face mask
O2	Oxygen
OCS	Oral Corticosteroids
PACO2	Partial Pressure of Carbon Dioxide
PAO2	Partial Pressure of Oxygen
PCR	Polymerase chain reaction
PE	Pulmonary Embolism
PEEP	Positive End-Expiratory Pressure
PEF	Peak Expiratory Flow
PSI	Pneumonia Severity Index
PSV	Pressure Support Ventilation
QI	Quality Improvement
RICU	Respiratory Intensive Care Unit
RR	Respiratory rate

SABA	Short Acting Beta Agonist
SAPS	Simplified Acute Physiology Score
SBT	The Spontaneous Breathing Trial
S.	Serum
SGOT	Serum glutamic oxaloacetic transaminase
SGPT	Serum glutamic pyruvic transaminase
SO2	Oxygen saturation
SOFA	Sequential Organ Failure Assessment
SOI	Numerous Severity-Of-Illness
Staph.	Staphylococcus
SXT	Sulfamethoxazole
TB	Tuberculosis
TISS	Therapeutic Intervention Scoring System
VAP	Ventilator associated pneumonia
VM	Venturi mask
WBCs	White blood cell

List of Tables

List of Figures