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BIKYYA

Role of Apoptosis in Acute Lung Injury

Thesis

Submitted For Partial Fulfillment of the Master Degree
in Biochemistry

By

Naglaa Kamal A. Idriss
(M.B.BCH)

Supervised by:

Prof. Dr. Madeha M. Zakhary

*Professor of Biochemistry
Faculty of Medicine,
Assiut University*

Dr. Amira M. El-Noweihi

*Assistant Prof. of Biochemistry
Faculty of Medicine,
Assiut University*

Dr. Mohamed S. Mohamed

*Assistant Prof. of Anesthesiology
Faculty of Medicine,
Assiut University*

Department of Biochemistry
Faculty of Medicine
Assiut University

2001

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

To My Parents,

My Husband and

My Daughter Amal

ACKNOWLEDGEMENTS

Heartily, I would like to express my sincere gratitude to *Professor Dr. Madeha M. Zakhary*, Professor of Biochemistry of this department, *Dr. Amira M. El-Noweih*, Assistant Professor of Biochemistry and *Dr. Mohamed Sayed Mohamed*, Assistant Professor of Anesthesiology, Faculty of Medicine, Assiut University, for suggesting and planning the research project, critical and continuous supervision and concrete discussion. Any success the work enjoys, is entirely due to their efforts.

Really, to *Prof. Madeha Zakhary*, it is too difficult for me to express my thankful feeling and I can never forget her scientific promotion effects, fruitful assistance and the enormous time she spent to accomplish this thesis in its present form.

I must emphasize that it would not have been possible to accomplish this work without the professional and cheerful help and encouragement of *Dr. Amira El-Noweih*. My debt to her is great.

Grateful acknowledgement to *Dr. Mohamed S. Mohamed* for valuable help and objective assistance he provided for me in conducting the research plan.

Indeed, I am indebted to *Professor Dr. Hosney Ali Hassan*, Head of Department of Biochemistry, for his valuable help and encouragement.

During the last years, I have had the opportunity to interact at length with outstanding people in the Department of Biochemistry, who have made major contribution to my thinking. I am very grateful for the opportunity to work closely with many Professors and researchers, who taught me a great deal.

Naglaa K.A. Idriss

Contents

	<u>Page</u>
INTRODUCTION AND AIM OF WORK	1
REVIEW OF LITERATURE	5
- Acute Respiratory Distress Syndrome	5
- Apoptosis	23
- Caspase-3	43
- Fas/FasL system	55
- Oxidative Stress	65
- Cytokines and Apoptosis	101
PATIENTS AND METHODS	104
RESULTS	118
DISCUSSION	153
SUMMARY AND CONCLUSION	165
REFERENCES	167
ARABIC SUMMARY	

List of Abbreviations

AIDS	Acquired Immuno Deficiency Syndrome
ALI	Acute Lung Injury
ALS	Amyotrophic Lateral Sclerosis.
AP-1	Activator Protein-1
APACHE	Acute Physiology And Chronic Healthy Evaluation.
Apaf-1	Apoptosis activating Factor-1
ARDS	Acute Respiratory Distress Syndrome
ATII	Alveolar type II
ATP	Adenosine Triphosphate
BAL	Broncho alveolar lavage
Bax	Bcl-2 associated x proteins
BE	Base-Excess
CAD	Caspase-Activated Deoxyribonuclease
CASP	Cystein proteases
CAT	Catalase
CTLs	Cytotoxic T-Lymphocytes
Cu, Zn, SOD	Copper and Zinc dependent on Super Oxide Dismutase
DFF	DNA Fragmentation Factor
DIC	Disseminated Intravascular Coagulapthy
DLEC	Distal lung Epithelial Cells
DTT	Dithiotheritol

EC-SOD	Extracellular Superoxide Dismutase
ELISA	Enzyme Linked Immuno Sorbem Assay
FADD	Fas-Associated Death Domain
FIO ₂	Fraction of Inspiratory Oxygen
FLIC	FADD-like interleukin converting enzyme
G6PD	Glucose-6-phosphate dehydrogenase
GCS	Glytanyl Cysteine Synthetase.
GPx	Glutathione Peroxidase
GR	Glutathione Reductase
G-CSF	Granulocyte Colony Stimulating Factor
GM-CSF	Granulocyte Macrophage Colony Stimulating Factor.
GSH	Glutathion
Gro-alpha	Growth-related oncogene alpha
HB	Haemoglobin.
HIV	Human Immunodeficiency Virus
ICAD/DFP-45	Inhibitor of Caspase Activated Deoxyribonuclease/DNA Fragmentation Factor-45
ICE	Interleukin converting Enzyme
IC-SOD	Intracellular Super Oxide Dismutase.
ICP	Intracranial Pressure
IFN	Interferon.
IFN α, β, γ	Interferon alpha, Beta and Gama
IL-1	Interleukin-1
IL-2	Interleukin-2

IL-6	Interleukin-6
IL-8	Interleukin-8
IPF	Idiopathic Pulmonary Fibrosis
ISS	Injury Severity Score
LIS	Lung Injury Score
LOOH	Lipid Hydroperoxide
LPER	Lipid Peroxide
LPS	Lipopolysaccharide.
Mab	Monoclonal Antibody
MDA	Malon Dialdehyde
MHC	Major Histocompatibility Complex
Mn SOD	Manganese dependent on Super Oxide Dismutase.
MOF	Multiple Organ Failure
M-W	Molecular Weight
NF-KB	Nuclear factor-KB
NK	Natural Killer
OFR	Oxygen Free Radical
PaO ₂	Partial Pressure of arterial Oxygen
PARP	Ply Adenosine Phosphate Ribose Polymerase.
PCD	Programmed Cell Death
PCPIII	Procollagen Peptide III
PEEP	Positive End Expiratory Pressure
PMNs	Polymorphonuclear neutrophils.
P-NA	P-Nitroanilide

PT	Permeability Transition
ROI	Reactive Oxygen Intermediate.
ROS	Reactive oxygen species
SAO ₂	Arterial oxygen saturation
SAPA,B	Surfactant Associated Protein A and B
SIRS	Systemic Inflammatory Response Syndrome.
SREPs	Sterol Regulatory Element Binding Proteins
TBARS	Thiobarbituric
TMFR ₅₅	Tumor necrosis factor receptor 55
TNFR ₇₅	Tunor necrosis factor receptor 75
TRADD	TNF-Receptor Associated Death Domain.
TRAIL	TNF-Related Apoptosis Inducing Ligand.
TUNEL	Terminal transferase deoxy uridine-nicck end labdling
V/Q	Ventilation/Perfusion Ratio
Vit A	Retinol
Vit C	Ascorbic Acid
Vit E	α -Tocopherol
VWF	Von Willebrand Factor
Z-VAD Fmk	Benzyloxy Carbonil-Valine-Alanine Aspartic Floromethylketone.

List of Tables

Table (1)	Definition of ALI and ARDS
Table (2)	Frequency of Acute Respiratory Distress Syndrome After Clinical Risks
Table (3)	Clinical Conditions Associated with Development of ARDS and their Mortality Rates.
Table (4)	Clinical Conditions Associated with Development of ARDS
Table (5)	Partial Differential Diagnosis of Acute Respiratory Failure Associated with Diffuse Pulmonary Infiltrates.
Table (6)	Difference Between Apoptosis and Necrosis.
Table (7)	Stimuli for Apoptosis.
Table (8)	Routine Laboratory Data in Patients Compared to Controls.
Table (9)	Arterial Blood Gas Analysis in Patients on Admission Compared to Controls.
Table (10)	Indices of Oxidant Stress in Patients on Admission Compared to Controls.
Table (11)	Apoptotic Indices in Patients on Admission Compared to Controls.
Table (12)	Arterial Blood Gas Analysis in Patients on Admission Compared to Third and Seventh Day.
Table (13)	Indices of Oxidant Stress in Patients on Admission Compared to Third and Seventh Day.
Table (14)	Apoptotic Indices in Patients on Admission Compared to Third and Seventh Day.