



Modulation of Immune Disorders Induced- Arthritis in γ - Irradiated Rats

A Thesis

Submitted for the award of the degree of Ph.D
(Biochemistry)

Presented by

Noura Magdy Salem Thabet

M.Sc. in Biochemistry, 2008
National Center for Radiation Research and Technology, Atomic Energy
Authority

**Faculty of Science
Ain Shams University
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Contents

<i>List of Abbreviations</i>	i
<i>List of Figures</i>	iii
<i>List of Tables</i>	vi
<i>Abstract</i>	vii
<i>Introduction and Aim of the Work</i>	1
<i>Review of Literature</i>	6
Oxidative Stress: Basic Mechanism, Functional Effect and Pathological Considerations	6
Radiation Exposure Induced Oxidative Stress and Biological Modifications	16
Inflammation: Recruitment, Types, Mediators and Implication	20
Lovastatin, Selenim (Lov-Se) Combating Arthritis	27
<i>Material and Methods</i>	32
I. Materials	32
A. Strains	32
B. Reagents	32
1- Reagents for lovastatin production	32
2- Reagents for Selenium Nanoparticle	32
3- Reagents for Thiobarbituric Acid Reactive Substances assay	32
4-Reagents for Protein Oxidation (Carbonyl Group) assay	33
5- Reagents for Nitric Oxide assay	33

6- Reagents for Selenium Content assay	33
7- Reagents for Xanthine Oxidoreductase assay	34
8- Reagents for Superoxide Dismutase assay	34
9- Reagents for Catalase assay	34
10- Reagents for Glutathione Peroxidase assay	35
11- Reagents for Reduced Glutathione assay	35
12- Reagents for Total Protein Content assay	36
13- Reagents for Tumor Necrosis Factor- Alpha assay	36
14- Reagents for C-reactive protein assay	37
15- Reagents for Rheumatoid Factor assay	38
C. Experimental Animals	40
D. Induction of Arthritis with an Adjuvant	40
E. Radiation Facility	40
F. Experimental Set Up:	40
G. Biological Sample Preparation	42
II. Methods	43
A. Treatment preparation:	43
1- Lovastatin	43
2- Selenium Nanoparticle	45
B. Biochemical Measurements	46
I. Oxidative Parameters:-	46
1- Determination of Thiobarbituric Acid Reactive Substances	46
2- Determination of Protein Oxidation (Carbonyl Group)	47
3- Determination of Nitric Oxide	49
4- Determination of Selenium Content	50
II. Antioxidant Parameters:-	52
1- Determination of Xanthine Oxidoreductase Activity	52

<i>2-Determination of Superoxide Dismutase Activity</i>	53
<i>3-Determination of Catalase Activity</i>	54
<i>4-Determination of Glutathione Peroxidase</i>	55
<i>5-Determination of Reduced Glutathione</i>	57
<i>6-Determination of Total Protein Content</i>	57
III. Inflammatory Markers:-	58
<i>1-Determination of Tumor Necrosis Factor- Alpha</i>	58
<i>2-Determination of C-reactive protein</i>	60
<i>3-Determination of Rheumatoid Factor</i>	62
Statistical analysis	63
<i>Results</i>	64
<i>Discussion</i>	110
<i>Summary and Conclusion</i>	126
<i>References</i>	135
<i>Arabic Summary</i>	
<i>Arabic Abstract</i>	

List of Abbreviations

CAMs	Cell Adhesion Molecules
CAT	Catalase
CFA	Complete Freund's Adjuvant
CRP	C-Reactive Protein
D.F	Dilution Factor
ELISA	Enzyme-Linked Immunosorbent Assay
GSH	Reduced Glutathione
GSH-Px	Glutathione Peroxidase
H ₂ O ₂	Hydrogen Peroxide
HMG-CoA	3-Hydroxy-3-Methylglutaryl-Coenzyme A
HOCl	Hypochlorous Acid
ICAM-1	Intercellular Adhesion Molecule 1
IL	Interleukin
LFA-1	Lymphocyte-Function-Associated Antigen-1
Lov-Se	Nano Selenium-Lovastatin
LPO	Lipid Peroxidation
LSD	Least Significant Difference
NO	Nitric Oxide
O ₂ ^{•-}	Superoxide Anion
OH [•]	Hydroxyl Radical
RA	Rheumatoid Arthritis
RF	Rheumatoid Factor

RNS	Reactive Nitrogen Species
ROS	Reactive Oxygen Species
Se	Selenium
SOD	Superoxide Dismutase
TBARS	Thiobarbituric Acid Reactive Substances
TCA	Trichloroacetic Acid
TNF- α	Tumor Necrosis Factor- α
XDH	Xanthine Dehydrogenase
XO	Xanthine Oxidase
XOR	Xanthine Oxidoreductase
γ -irradiation	Gamma Irradiation

List of Figures

Figure (1):	The chemical structure of lovastatin	65
Figure (2):	HPLC chromatogram of (a) standard lovastatin and (b) sample lovastatin	65
Figure (3):	IR- spectrum of lovastatin	66
Figure (4):	¹ H-NMR- spectrum of lovastatin	66
Figure (5):	DLS of selenium nanoparticle	67
Figure (6):	TEM of selenium nanoparticle	67
Figure (7):	TBARS contents in heart of different animal groups.	72
Figure (8):	Protein carbonyl contents in heart of different animal groups.	72
Figure (9):	NO contents in heart of different animal groups.	73
Figure (10):	Se contents in blood of different animal groups.	73
Figure (11):	XDH activity in heart of different animal groups.	76
Figure (12):	XO activity in heart of different animal groups.	76
Figure (13):	SOD activity in heart of different animal groups.	81
Figure (14):	CAT activity in heart of different animal groups.	81
Figure (15):	GSH-Px activity in heart of different animal groups.	82

Figure (16):	GSH contents in heart of different animal groups.	82
Figure (17):	TNF- α level in serum of different animal groups.	86
Figure (18):	CRP level in serum of different animal groups.	86
Figure (19):	RF level in serum of different animal groups.	87
Figure (20):	TBARS contents in heart of different animal groups.	92
Figure (21):	Protein carbonyl contents in heart of different animal groups	93
Figure (22):	NO contents in heart of different animal groups.	93
Figure (23):	Se contents in heart of different animal groups.	94
Figure (24):	XDH activity in heart of different animal groups.	97
Figure (25):	XO activity in heart of different animal groups.	97
Figure (26):	SOD activity in heart of different animal groups.	102
Figure (27):	CAT activity in heart of different animal groups.	103
Figure (28):	GSH-Px activity in heart of different animal groups.	103
Figure (29):	GSH contents in heart of different animal groups.	104

Figure (30):	TNF- α level in serum of different animal groups.	108
Figure (31):	CRP level in serum of different animal groups.	108
Figure (32):	RF level in serum of different animal groups.	109

List of Tables

Table (1):	The change in heart TBARS, protein carbonyl, NO and blood Se contents in of different animal group	71
Table (2):	The change in XDH and XO activities in heart of different animal groups.	75
Table (3):	The change in SOD, CAT and GSH-Px activities and GSH contents in heart of different animal group.	80
Table (4):	The change in TNF- α , CRP and RF level in serum of different animal groups	85
Table (5):	The change in heart TBARS, protein carbonyl, NO and blood Se contents in of different animal groups	91
Table (6):	The change in XDH and XO activities of heart in different animal groups.	96
Table (7):	The change in SOD, CAT and GSH-Px activities and GSH contents of heart in different animal groups	101
Table (8):	The change in TNF- α , CRP and RF level of heart in different animal groups	107