



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم



HANAA ALY



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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس

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**Evaluation of the Malondialdehyde (MDA) level
Following the Adjunctive Use of Lycopene and Vitamin C
in Non Surgical Treatment of Chronic Periodontitis:
A Randomized Clinical Trial**

Submitted to Faculty of Dentistry, Ain Shams University
For
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Dedication

I would like to dedicate this thesis to my dear family,
who has always been with me
through thick and thin.

Contents

Subject	Page No.
List of Abbreviations.....	i
List of Tables.....	iii
List of Figures	vi
Introduction	1
Review of Literature	4
Aim of the Study	44
Subjects and Methods	45
Results.....	65
Discussion	84
Summary	97
Conclusions	100
Recommendations	101
References	102
Arabic Summary	—

List of Abbreviations

Abbrev.	Full term
ANG II	: Angiotensin II
AO	: Antioxidants
AP I	: Activating protein I
ARDS	: Acute respiratory distress syndrome
CHS	: Chediak- Higashi syndrome
Dc	: Dendritic cells
FGF-2	: Fibroblast growth factor-2
FNB	: Food and Nutrition Board
GCF	: Gingival crevicular fluid
GM-CSF	: Granulocyte-macrophage colony stimulating factor
HPLC	: High performance liquid chromatography
IL-1	: Interleukin-1
IL-3	: Interleukin-3
IL-6	: Interleukin-6
LPS	: Lipopolysacharides
MDA	: Malondialdehyde

MMP	: Matrix Metalloproteinases
NGF	: Nerve growth factor
NLRs	: Nod like receptors
NO	: Nitrous Oxide
PMN	: Polymorphonuclear neutrophils
PRRs	: Pattern recognition receptors
RDA	: Recommended dietary allowance
RNS	: Reactive nitrogen species
ROS	: Reactive oxygen species
SD	: Standard deviation
SPSS	: Statistical package for social science
SRP	: Scaling and root planning
TBA	: Thiobarbituric acid
TGF-1	: Transforming growth factor-1
TLRs	: Toll like receptors
TNF	: Tumor necrosis factor

List of Tables

Table No.	Title	Page No.
Table (1):	True radical and reactive oxygen species (ROS) and their symbols	12
Table (2):	Mechanisms of ROS production in vivo	15
Table (3):	Antioxidants classified according to their structural dependents	34
Table (4):	Plaque Index	50
Table (5):	Gingival Index	51
Table (6):	Mean, standard deviation (SD), frequencies (n), percentages and results of one-way ANOVA test and Fisher's Exact tests for comparisons of demographic data in the three groups	65
Table (7):	Descriptive statistics and results of repeated measures ANOVA test for comparison between MDA levels (nmol/ml) in the three groups and the changes by time within each group	66
Table (8):	Descriptive statistics and results of one-way ANOVA test for comparison between percentage changes in MDA levels (%) in the three groups	67
Table (9):	Descriptive statistics and results of repeated measures ANOVA test for comparison between HPLC in the two groups and the changes by time within each group	69

Table (10): Descriptive statistics and results of Student's t-test for comparison between percentage changes in HPLC in the two groups	70
Table (11): Descriptive statistics and results of Kruskal-Wallis test for comparison between PI scores in the three groups and Wilcoxon signed-rank test for the changes by time within each group	71
Table (12): Descriptive statistics and results of Kruskal-Wallis test for comparison between percentage changes in PI (%) in the three groups.....	73
Table (13): Descriptive statistics and results of Kruskal-Wallis test for comparison between GI scores in the three groups and Wilcoxon signed-rank test for the changes by time within each group	74
Table (14): Descriptive statistics and results of Kruskal-Wallis test for comparison between percentage changes in GI (%) in the three groups	76
Table (15): Descriptive statistics and results of repeated measures ANOVA test for comparison between PD (mm) in the three groups and the changes by time within each group	77
Table (16): Descriptive statistics and results of Kruskal-Wallis test for comparison between percentage changes in PD (%) in the three groups	79

Table (17): Descriptive statistics and results of repeated measures ANOVA test for comparison between CAL (mm) in the three groups and the changes by time within each group	80
Table (18): Descriptive statistics and results of Kruskal-Wallis test for comparison between percentage changes in CAL (%) in the three groups	82
Table (19): Results of Pearson's and Spearman's correlation coefficients for the correlation between different variables	83

List of Figures

Figure No.	Title	Page No.
Figure (1):	The periodontopathic etiology of dental plaque.....	7
Figure (2):	The interaction between superoxide & nitric oxide to form the peroxynitrite action and the molecular & cellular effects of these reactive species	11
Figure (3):	Sites of superoxide formation in the respiratory chain.....	13
Figure (4):	Mitochondrial ROS metabolism	17
Figure (5):	The role of bacteria and their products in receptor mediated neutrophil ROS production.....	21
Figure (6):	The biological effect of small and large shifts in the balance of activity between reactive oxygen species and antioxidants	24
Figure (7):	Simplified diagram illustrating a central role of ROS in generating chronic inflammation and tissue damage in response to periodontal pathogens.....	26
Figure (8):	Chemical structures of MDA, acrolein and 4-HNE.....	42
Figure (9):	MDA ELISA kit	57
Figure (10):	Lycopene soft gels supplements.....	57
Figure (11):	Vitamin C supplements	58

Figure (12):	Preoperative photograph for chronic periodontitis patient.....	58
Figure (13):	Preoperative photo showing pocket depth (PD) = 7mm using William's graduated periodontal probe.....	59
Figure (14):	Perio-paper strips for collection of GCF	59
Figure (15):	Collecting GCF sample with perio-paper strips at site of deepest pocket (PD=7mm).....	60
Figure (16):	After collecting GCF sample in Eppendorf tube	60
Figure (17):	Clinical photograph after SRP treatment & lycopene supplements showing reduction in pocket depth PD= 3 mm using William's graduated probe.....	61
Figure (18):	Clinical photograph after SRP treatment with adjunctive lycopene supplements	61
Figure (19):	HPLC machine	62
Figure (20):	Bar chart representing mean and standard deviation values for MDA levels in the three groups.....	67
Figure (21):	Bar chart representing mean and standard deviation values for percentage decrease in MDA levels in the three groups	68

Figure (22):	Bar chart representing mean and standard deviation values for HPLC levels in the two groups.....	69
Figure (23):	Bar chart representing mean and standard deviation values for percentage decrease in HPLC in the two groups	70
Figure (24):	Box plot representing median and range values for PI scores in the three groups (Stars represent outliers).....	72
Figure (25):	Bar chart representing median and range values for percentage decrease in PI scores in the three groups (Circle and stars represent outliers).....	73
Figure (26):	Box plot representing median and range values for GI scores in the three groups (Stars represent outliers).....	75
Figure (27):	Bar chart representing median and range values for percentage decrease in GI scores in the three groups.....	76
Figure (28):	Bar chart representing mean and standard deviation values for PDs in the three groups	78
Figure (29):	Box plot representing median and range values for percentage decrease in PD in the three groups (Stars and circles represent outliers)	79
Figure (30):	Bar chart representing mean and standard deviation values for CALs in the three groups	81