

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

عَلَيْكُمْ يَا أَيُّهَا
مُؤْمِنُونَ كُنُوا
عَدْلًا بَيْنَ
النِّسَاءِ كَمَا
كُنْتُمْ بَيْنَ
أَنْفُسِكُمْ إِنَّ
الْعَدْلَ بَيْنَكُمْ
أَعْيُنٌ عَدْلَةٌ
يَا أَيُّهَا
مُؤْمِنُونَ كُنُوا
قَدِيرِينَ

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LIST OF ABBREVIATIONS

A	Angstrom
4-AAP	4-Aminoantipyrine
ACE	Angiotensin-converting enzyme
AHA	American Heart Association
Akt	Protein Kinase B
ALS	Amyotrophic lateral sclerosis
AMP	Adenosine monophosphate
AMPK	5'-Adenosine monophosphate-activated protein kinase
AngII	Angiotensin II
apo B	Apolipoprotein B
ASTEROID trial	A Study to Evaluate the Effect of Rosuvastatin on Intravascular Ultrasound-Derived Coronary Atheroma Burden
ATP	Adenosine triphosphate
ATPIII	Adult Treatment Panel III
Biol	Biomolecules
BMI	Body mass index
B.P	Blood pressure
BSA	Bovine serum albumin
CHD	Coronary heart disease
CHF	Congestive heart failure
CRP	C-reactive protein
CVD	Cardiovascular disease
DASH	Dietary Approaches to Stop Hypertension
DOCA	Deoxycorticosterone acetate
EGIR	European Group for the Study of Insulin Resistance
ELISA	Enzyme-Linked Immunosorbent Assay
eNOS	Endothelial nitric oxide synthase
ETC	Electron transport chain
FAD	Flavin adenine dinucleotide
FAPy-G	2,6-Diamino-5-formamido-4-hydroxypyrimidine
FFA	Free fatty acid
FG	Fasting serum glucose
GK	Glycerol kinase
GPO	Glycerol phosphate oxidase
GSH	Glutathione
GSH/GSSG ratio	Reduced glutathione/oxidized glutathione ratio
HDL	High-density lipoprotein
HMG-CoA	3-Hydroxy-3-methyl-glutaryl coenzyme A

HMP-shunt	Hexose Monophosphate Shunt
4-HNE	4-Hydroxynonenal
H ₂ O ₂	Hydrogen peroxide
HOMA-IR	Homeostatic model assessment of insulin resistance
HOO [•]	Dioxyl radical
HRP	Horseradish peroxidase
Hyperapo B	Hyperapobetalipoproteinemia
8-OHdG	8-hydroxy-2'-deoxyguanosine
IDF	International Diabetes Federation
IGT	Impaired Glucose Tolerance
IL-6	Interleukin-6
IR	Insulin resistance
IRS	Insulin receptor substrate
LDL	Low-density lipoprotein
MDA	Malondialdehyde
MetS	Metabolic syndrome
MI	Myocardial infarction
MnTBAP	Manganese (III) tetrakis (4-benzoic acid) porphyrin
MRI	Medical Research Institute
mtDNA	Mitochondrial deoxyribonucleic acid
NAC	N-Acetyl cysteine
NAD ⁺	Nicotinamide adenine dinucleotide
NADP ⁺	Nicotinamide adenine dinucleotide phosphate
NaOCl	Sodium hypochlorite
NCEP	National Cholesterol Education Program
NEFA	Non-esterified fatty acid
NHLBI	National Heart, Lung, and Blood Institute
NO	Nitric oxide
ns	Nanosecond
(O ₂ ^{•-})	Superoxide anion radical
OFR	Oxygen-free radicals
OH ⁻	Hydroxide ion
[•] OH	Hydroxyl radical
8-OHG	8-Hydroxyguanine
ONOO ⁻	Peroxynitrite
oxLDL	Oxidized LDL
8-oxo-dG	8-Oxo-7,8-dihydro-2'-deoxyguanosine
PMN	Polymorphonuclear leukocytes
PP	Pyrophosphate
PUFA	Polyunsaturated fatty acid

ROO•	Peroxyl radicals
ROOH	Alkyl hydroperoxides
ROS	Reactive oxygen species
SD	Standard deviation
SDS	Sodium dodecyl sulfate
SHR	Spontaneously hypertensive rat
SI	Serum insulin
SOD	Superoxide dismutase
TBA	Thiobarbituric Acid
TBARS	Thiobarbituric Acid Reactive Substances
T. Cholest	Total cholesterol
T2DM	Type 2 diabetes mellitus
TG	Triglycerides
TMB	Tetramethylbenzidine
TNF- α	Tumor necrosis factor-alpha
α -TTP	Alpha-tocopherol transfer protein
VLDL	Very low density lipoprotein
V	Volts
WC	Waist circumference
WHO	World Health Organization
WHR	Waist to hip ratio
XO or XOD	Xanthine oxidase