

ABBREVIATIONS USED

O ₂ ⁻	Superoxide anion	EDTA	Ethylene diamine tetra acetic acid
4-HNE	4-hydroxynonenal	ESWL	Extra-corporeal shockwave lithotripsy
8-OHdG	8-hydroxy deoxyguanine	ETC	Electron transport chain
A D M E	Absorption, distribution, metabolism, excretion (kinetics)	FAs	Fulvic acids
AA	Ascorbic acid	GAG	Glycosaminoglycans
AGE	Aminoglycosylated end products	GFR	Glomerular filtration rate
ALA	Alpha lipoic acid	GI	Gastrointestinal tract
AMPHH	Ammonium magnesium phosphate hexahydrate	Glu	Glutamic acid
AO	Antioxidant	Gly	Glycine
APRT	Adenine phosphoribosyl transferase	GPx	Glutathione peroxidase
Asp	Aspartic acid	GPx-PH	Glutathione peroxidase phospholipid hydroperoxide
BCNU	Bischloroethyl nitrosourea	GR	Glutathione reductase
BHA	Butylated hydroxy toluene	GSH	Reduced glutathione
BSO	Buthionine sulfoximine	GSSH	Oxidised glutathione
CA	Carbonate apatite	HAs	Humic acids
CNS	Central nervous system	Hb	Hemoglobin
COD	Calcium oxalate dihydrate	HIV	Human immunodeficiency virus
COM	Calcium oxalate monohydrate	HPRT	Hypoxanthine phosphoribosyl transferase
COMT	Catechol-O-methyl-transferase	HPSAP	Heme protein spectra analysis programme
ct	Compared to	IBS	Irritable bowel syndrome
CVD	Cardio vascular disease	ICAM	Inter cellular adhesion molecules
DALA	Dihydroalpha lipoic acid	KD	Kilodaltons
DCFDA	2'7' dichlorofluorescein diacetate	LDH	Lactate dehydrogenase
DHA	Dehydroascorbic acid	LDL	Low density lipoprotein
EDRF	Endothelial derived relaxing factor	LPO	Lipid peroxidation

MAO	Monoamine oxidase	PRPP	Phosphoribosyl pyrophosphate
MCB	4'methoxy 6-carbomethoxy biphenyl	PTH	Parathyroid hormone
MDA	Malondialdehyde	PUFA	Polyunsaturated fatty acid
MI	Myocardial infarction	RCU	Recurrent calcium urolithiasis
NAD	Nicotinamide adenine dinucleotide	RLS	Rate limiting step
NADPH	Nicotinamide adenine dinucleotide phosphate (reduced)	ROS	Reactive oxygen species
NSAID	Non steroidal anti-inflammatory drugs	SOD	Superoxide dismutase
NSR	Nonspecific resistance	TBARS	Thiobarbituric acid reactive substances
OFR	Oxygen free radicals	TBH	Tertiary butyl hydroperoxide
OHP	Oxidised heme protein	TocO [•]	Oxidised tocopherol
OS	Oxidative stress	TocOH	Reduced tocopherol
PAI	Platelet aggregation inhibition	UTI	Urinary tract infection
PEG	Polyethylene glycol	XO	Xanthine oxidase
PO	Pro-oxidant		