

LIST OF ABBREVIATIONS

4-AAP- 4-Aminoantipyrine
ACC- Acetyl-Co-A
ADP- Adenosine-di-phosphate
AGE- Advanced glycosylation end products
Ang II- Angiotensin II
AR- Aldolase reductase
ATP- Adenosine-tri-phosphate
BMI- Body mass index
cAMP- cyclic adenosine monophosphate
CCK- Cholecystokinin
CE- Cholesterol esterase
CFU- Colony forming units
CHOD- Cholesterol oxidase
CNS- Central nervous system
COPD- Chronic obstructive disease
CVD- Cardio vascular diseases
DAG- Di aceyl glycerol
DALYs- Disability and early death
DHAP- Dihydroxyacetone phosphate
DPP-IV- Dipeptidyl peptidase IV
DVC- Dorsal vagal complex
eNOS- enzyme nitric oxide synthase
ET-Endothelin
FBS- Fasting blood sugar
FFA- Free fatty acid
FFQ- Food frequency questionnaire
FH- Family history
FOS- Fructooligosaccharide
FOX- Forehead protein family
FPG- Fasting plasma glucose
G6PGH- Glucose 6 phosphate dehydrogenase

GFAT- Glutamine-fructose-6-phosphate amidotranferase
 GI- Gastro intestinal
 GIP- Gastric inhibitory peptide
 GK- Glucokinase
 GLP-1- Glucagon like peptide-1
 GPAQ- Global physical activity questionnaire
 GPCR- G-protein coupled receptor
 GPO- Glycerol phosphate oxidase
 H_2O_2 - Hydrogen peroxide
 HbA_{1c}- Glycated hemoglobin
 HC- Hip circumference
 HDL- High density lipoprotein
 HK- Hexokinase
 HNF- Hepatic nuclear factor
 HPLC- High performance liquid chromatography
 HT- Hypertension
 IFG- Impaired fasting glucose
 IGT- Impaired glucose tolerance
 LDL- Low density lipoprotein
 LPL- Lipoprotein lipase
 MET- Metabolic equivalent
 MUFA- Monounsaturated fatty acid
 NAD- Nicotinamide adenine dinucleotide
 NCD- Non communicable diseases
 NO- nitric oxide
 OFS- Oligofructose
 OXM- Oxyntomodulin
 p- Phosphate
 PA- Phosphatidic acid
 PAI- Plasminogen activator inhibitor
 PAL- Physical activity level
 PARP- Poly (ADP-ribose) polymerase
 PEPCK- Phosphoenol pyruvate carboxy kinase
 PFK- Phospho fructo kinase

PK- Pyruvate kinase
PKC- Protein kinase C
POD- Peroxidase
PP- Pancreatic polypeptide
PP2BS- Post prandial blood sugar
PPG- post prandial plasma glucose
PPP- Pentose phosphate pathway
PUFA- polyunsaturated fatty acid
PYY- Peptide tyrosine-tyrosine
RHD- Rheumatic heart disease
ROS- Reactive oxygen species
SDH- Sorbitol dehydrogenase
SFA- Saturated fatty acid
SOD- Superoxide dismutase
SPSS- Statistical package for social sciences
SREBP- Sterol regulatory element binding protein
T2DM- Type 2 diabetes mellitus
TC- Total cholesterol
TK- Transketolase
t-PA- Tissue type plasminogen activator
UDP-GlcNAC- Uridine diphosphate N-acetylglucosamine
VEGF- Vascular endothelium growth factor
VLDL- Very low density lipoprotein
vWF- Von Wille brand factor
WC- Waist circumference
WHR- Waist-hip-ratio