**Supplementary Table 1**. List of biochemical parameters that will be analysed in the study.

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| --- | --- |
| **Parameter** | **Method of analysis** |
| **Endothelial function** |
| Asymmetric dimethylarginine (ADMA) | Immunoenzymatic method(SunRed Human (ADMA) ELISA Kit, China) |
| Endothelial nitric oxide synthase (eNOS) | Immunoenzymatic method(MyBioSource Human Endothelial Nitric Oxide Synthase ELISA kit, US)A |
| Homocysteine (Hcy) | Immunoenzymatic method(Axis Homocysteine EIA kit, United Kingdom) |
| NO2 | Method described by Tsikas1 |
| NO3 | Method described by Tsikas1 |
| Plasminogen activator inhibitor-1 (PAI-1) | Immunoenzymatic method(Human Total Serpin E1/PAI-1 Quantikine ELISA, R&D Systems a biotechne brand, USA) |
| Vascular endothelial growth factor (VEGF) | Immunoenzymatic method(Human VEGF, Quantikine ELISA, R&D Systems a biotechne brand, USA) |
| **Glucose and insulin homeostasis** |
| Glucose | Enzymatic method with hexokinase |
| Insulin | Electrochemiluminescence method |
| Glycated haemoglobin(HbA1c) | Turbidimetric immunoinhibitory method in hemolysate prepared from blood |
| Insulin-like growth factor (IGF-1) | Immunoenzymatic method(IGF-1 600 ELISA kit, DRG Intruments GmbH, Germany) |
| **Lipid metabolism** |
| Total cholesterol (TC) | Enzymatic colorimetric method |
| Low-density lipoprotein cholesterol (LDL-C) | Friedewald formula:LDL-C = TC – (HDL-C + TG/5) |
| High-density lipoprotein cholesterol (HDL-C) | Homogeneous enzymatic colorimetric method |
| Triglycerides (TG) | Enzymatic colorimetric method |
| Oxidized low-density lipoprotein (ox-LDL) | Immunoenzymatic method(Human ox-LDL ELISA kit, SunRed, China) |
| Apolipoprotein A1 (ApoA1) | Nephelometric method |
| Apolipoprotein B(ApoB) | Nephelometric method |
| Apolipoprotein E(ApoE) | Immunoenzymatic method(Human Apolipoprotein E ELISA Kit, Assaypro, USA) |
| **Oxidative stress** |
| Advanced glycation end products(AGEs) | Immunoenzymatic method(Human AGEs ELISA Kit, MyBiosource, USA) |
| **Antioxidant status** |
| Glutathione(GSH) | Immunoenzymatic method(Human Reduced GSH), ELISA Kit, MyBiosource, USA) |
| Superoxide dismutase(SOD) | Colorimetric method(SOD Assay Kit, Cayman Chemical, USA) |
| Total antioxidant status(TAS) | Immunoenzymatic method(Human TAS ELISA kit, Qayee-bio, China) |
| Paraoxonases(PON) | Immunoenzymatic method(Human PON ELISA Kit, MyBiosource, USA) |
| **Inflammatory markers** |
| High-sensitivity C reactive protein(hs-CRP) | Latex enhanced turbidimetric immunoassay method |
| Interleukin-6(IL-6) | Immunoenzymatic method(Human IL-6 Immunoassay, Quantikine HS ELISA, R&D Systems a biotechne brand, USA) |
| Interleukin-8(IL-8) | Immunoenzymatic method(Human CXCL8/IL-8 Immunoassay, Quantikine HS ELISA, R&D Systems a biotechne brand, USA) |
| Monocyte chemoattractant protein 1(MCP-1) | Immunoenzymatic method(MCP-1 human ELISA, DRG Intruments GmbH, Germany) |
| Matrix metalloproteinase-2(MMP-2) | Immunoenzymatic method(Total MMP-2 Immunoassay, Quantikine ELISA, R&D Systems a biotechne brand, USA) |
| Matrix metalloproteinase-9(MMP-9) | Immunoenzymatic method(Human MMP-9 Immunoassay, Quantikine ELISA, R&D Systems a biotechne brand, USA) |
| Tumor necrosis factor-α(TNF-α) | Immunoenzymatic method(Human tumor necrosis factor alfa, ELISA kit, Qayee-bio, China) |

1Tsikas D. Simultaneous derivatization and quantification of the nitric oxide metabolites nitrite and nitrate in biological fluids by gas chromatography/mass spectrometry. Anal Chem. 2000 Sep;72(17):4064-4072.