

Potentially useful Biomarkers of Diabetic Nephropathy (DN)

Disease process	Marker
Fibrosis	Collagen IV Fibronectin Transforming Growth Factor β (TGF- β 1) Matrix MetalloProteinase-2 (MMP-2) Tissue Inhibitor of MetalloProtease-1 (TIMP-1)
Oxidative Stress	Lipid peroxidation MalonDiAldehyde (MDA) 8-Oxo-7,8-dihydro-2-deoxyguanosine (8-OHdG) Superoxide Dismutase (SOD)
Inflammation	Soluble TNF receptors-1 (sTNFR-1) Soluble TNF receptors-2 (sTNFR-2) Fibroblast Growth Factor-21 (FGF-21) Fibroblast Growth Factor-23 (FGF-23) Adipocyte-Fatty Acid Binding Protein (A-FABP) Monocyte Chemotactic Protein-1 (MCP-1) Tumor Necrosis Factor alpha (TNF α) Interleukin-6 (IL-6) Interleukin-8 (IL-8) Interleukin-18 (IL-18)
Injury and Dysfunction	Cystatin C (serum) Kidney Injury Molecule-1 (KIM-1) Neutrophil Gelatinase-Associated Lipocalin (NGAL) Liver-type Fatty Acid Binding Protein (L-FABP) N-Acetyl-beta-Glucosaminidase (NAG) Nephrin PodoCalyXin (PCX) Immunoglobulin G (IgG) Alpha 1-Microglobulin (A1M)