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IMPACT OF HERBALS PLANTS IN DIABETIC NEPHROPATHY

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ABSTRACT

Diabetic nephropathy is a microvascular complication characterized by the thickening of the basement membrane and the mesangial spread through progression to glomerulosclerosis, intersptial necrosis, affecting 25-40% of patients with type 1 and type II diabetes and increasing by 6% annually. End-stage renal impairment may occur via metabolic and non-metabolic pathways. Diabetic nephropathy has been linked to the non-enzymatic glycation of irreversibly formed proteins and the accumulation of AGE products. Activation of protein kinase C and mitogen-activated protein kinase, as well as overexpression of growth factors and cytokines (such as transforming growth factor-, endothelial growth factor, and platelet-derived growth factor) have all been linked to diabetic nephropathy.