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ASSOCIATION OF IGF-I GENE POLYMORPHISM WITH DIABETIC NEPHROPATHY IN EGYPTIANS WITH TYPE 2 DIABETES

Eman H EL-Adawy[1] Mohamed A Hegazi[3], Amal Seleem[2], and **Mahmoud E Abdelhamid[4]**
[1]Specialized Medical Hospital - Mansoura University, Egypt
[2]Mansoura University Hospital, Egypt
[3]Tanta Univeresity, Egypt

Background: Genetic susceptibility has been proposed in development and progression of diabetic nephropathy (DN) which accounts for the majority of chronic renal failure on hemodialysis among Egyptians. IGF-1 gene polymorphism has been studied in DN in type 1 diabetes but not yet in type2.

Aim: The aim of this study is to investigate the association of IGF-1 gene polymorphism with DN in Egyptians with T2DM.

Methods: A case control study of 52 T2DM were divided into 26 without DN and 26 with DN, of average age 52.7±6.1. Twenty five age and sex matched healthy control were selected. We genotyped two tagging single nucleotide polymorphisms (SNPs) in IGF-1; rs6214 and rs10860860. Genotypic distribution was tested for Hardy–Weinberg equilibrium and was evaluated by using the x2 tests. Participants were assessed clinically and laboratory for FBS, HBA1c, serum creatinine, urine albumin, uric acid and lipid profile.

Results: The genotype frequency GG of IGF-1 gene SNP rs6214 was associated with the risk of DN (AA: OR=0.98, 95% CI: 0.25 – 3.84, p = 0.97; AG: OR=0.21, 95% CI: 0.05 – 0.79, p = 0.002; GG: OR= 20.57, 95% CI: 2.25 – 74, p = 0.001). The AA variant genotype of rs10860860 also associated with the risk of DN (AA: OR=7.37, 95% CI: 1.87 – 30.07, p = 0.001; AT: OR=0.20, 95% CI: 0.05 – 0.78, p = 0.007; TT: OR= 0.29, 95% CI: 0.01 – 3.59, p = 0.28).

Conclusion: The variants of rs6214 and rs10860860 in IGF-1 gene entail the risk of DN in Egyptians with T2DM.

Biography

Eman H EL-Adawy has completed Her MD from Mansoura University. She is a Associate Professor of Internal Medicine and Endocrinology Department in Spescialized Medical Hospital,Faculty of Medicine, Mansoura City, Egypt. She published more than 10 papers in reputed journals.

emaneladawy@yahoo.com