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Relationship between lipid profile and lipid hydroperoxide levels in early stage type 1 diabetic patients

Ufuk ÇAKATAY¹⁾, Refik KAYALI²⁾, Serpil SALMAN³⁾, Ahmet SIVAS¹⁾ and Ilhan SATMAN³⁾

- 1) Istanbul University, Istanbul Faculty of Medicine, Central Laboratory of Biochemistry
- 2) Istanbul University, Cerrahpasa Faculty of Medicine, Department of Biochemistry
- 3) Istanbul University, Istanbul Faculty of Medicine, Department of Internal Medicine, Division of Diabetes

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ABSTRACT

We studied 51 early stage type 1 diabetic patients and 48 healthy normolipidemic agematched controls to examine the influence of lipid profile on lipid hydroperoxide levels. The type 1 diabetic patient group consisted of 12 prepubertal children, 18 adolescents, and 21 young adults who were free from any clinical evidence of retinopathy, nephropathy, or neuropathy. We determined serum triglyceride, total cholesterol, HDL (high-density lipoprotein)-cholesterol, LDL (low-density lipoprotein)-cholesterol, VLDL (very lowdensity lipoprotein)-cholesterol, apolipoprotein A-1, apolipoprotein B, lipoprotein (a) levels as markers of lipid profile, and lipid hydroperoxide levels (LHP) as markers of lipid peroxidation, and tried to show the relation, if any, between lipid profile and lipid peroxidation. Serum lipid profiles of three groups of diabetic patients were not different compared to their controls. However, LHP levels were increased significantly in adolescent and young adult type 1 diabetic patients compared to their controls. The significant increase in LHP levels in these two groups of patients was independent from their lipid profile parameters except triglycerides. The lack of difference in LHP levels in prepubertal diabetic patients and their controls might be explained by intense hormonal and metabolic changes during puberty.

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