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Leptin and lipid profile in overweight type 1 diabetic patient

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Objective: To evaluate leptin and lipid profile in overweight type 1 diabetic patient.

Patients & Methods: The study included 50 overweight type 1 diabetic patients and 50 age and sex matched healthy controls. Blood sample was taken for evaluation of glycosylated hemoglobin, lipid profile and leptin. Also, urine sample was taken for evaluation of albumin/ creatinine ratio.

Results: Leptin level was significantly lower in overweight diabetic patients and had a significant positive correlation with hip circumference and body mass index and negative correlation with HbA1c. Leptin level was significantly lower in overweight diabetic patients with HbA1c > 7.5 %. The best cut off point between overweight diabetic group and control group regarding level of leptin was found 16.9 with sensitivity 68% and specificity 56% and also area under curve 0.623.

Conclusion: leptin level is low in overweight diabetic patients and it is related to body mass index and hip circumference. LDL-c level was significantly increased while HDL-c level was significantly decreased in the diabetic overweight group indicating increased risk of cardiovascular disease. Leptin level in overweight diabetic patients is related to metabolic control.

Biography

Soha M Abd El Dayem has international experience in various programs, contributions and participation in different countries for diverse fields of study. Her research interests reflect in her wide range of publications in various national and international journals.

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