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Study of metabolic and some hormonal aspects among pubertal type 1 diabetic girls

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Background: The onset of type 1 diabetes before menarche was a risk factor for the subsequent development of hyperandrogenic disorders. It has been also suggested that the use of exogenous insulin to treat type 1 diabetes mellitus in those patients may contribute to the development of PCOS. Abnormal lipid levels were also reported in children with type 1 diabetes mellitus during pubertal years.

Aim: This study was designed to investigate metabolic and some hormonal changes in relation to puberty among type 1 diabetic girls.

Subjects & Methods: The study was carried out on 60 girls, 40 of them were type 1 diabetic patients (the diabetic group), subdivided into 2 groups (according to age and Tanner breast staging), and 20 of them were normal healthy girls (the control group), also subdivided into 2 groups (according to age and Tanner breast staging). All girls were subjected to full history taking, thorough clinical examination, estimation of fasting blood glucose and HbA1c (as an estimation for glycemic control), lipid profile, hormonal profile (FSH, LH and free testosterone) in addition to pelvic ultrasound.

Biography

Mohsen Khalid has graduated from Faculty of Medicine, Cairo University in November 1980. He has completed his Master's degree in Internal Medicine in May 1986, and then he completed his Medical Doctorate in Internal Medicine November 2003. He is a Consultant of Diabetes and Endocrinology in the Egyptian National Institute of Diabetes and Endocrinology. He has published more than 20 papers in reputed journals. His research interest is genetics of diabetes, diabetic complications and how to assist diabetic patients to live a good life with life style modification and medical treatment.

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