

عنوان مقاله:

Tissue Doppler Imaging Findings and Lipid Profile Changes in Diabetes Mellitus Type I Children

محل انتشار:

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تعداد صفحات اصل مقاله: 17

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خلاصه مقاله:

Background Diabetes mellitus type I (DMTI) is one of the most common endocrine and metabolic conditions in childhood. We aimed to assess the tissue Doppler imagining changes in children with DMTI compared to healthy children. Materials and Methods This case-control study was performed on 96 DMTI and 96 healthy children. The diabetes mellitus type I was confirmed by the clinical manifestation and laboratory measures. Both groups underwent echocardiography by tissue Doppler imaging by a pediatric cardiologist and their height and weight were measured using standard equipment and then BMI was calculated. Patients' HbA1c, diabetic duration and lipid profiles of cholesterol, HDL, LDL, and triglyceride were measured. Results Left ET', left IRT', left E', right ET', right ICT', right IRT', right S', right E', left MPI', and right MPI', left E/E' were significantly different in diabetes patients compared to healthy children (P> 0.05). In patients based on HbA1c, left ICT' (P=0.010), right S' (P=0.050) were higher in abnormal status of HbA1c and in the case of diabetes duration categorization the results revealed that all the TDI findings were similar. The patients that were grouped based on CHO (P<0.05). Right S', and right E'E' were different in patients that were grouped based on CHO (P<0.05). Right S' and right E'E' were different in patients with normal LDL (P<0.05). Right S' had higher values in abnormal status of LDL. Conclusion It was concluded that DMTI had more tissue Doppler imaging involvement. No changes were observed in TDI except right .S', left MPI' and left ICT' in HbA1c and right IRT', left ET' and right MPI' in diabetic duration

كلمات كليدى:

Children, Diabetes Mellitus, Hemoglobin A1C, Tissue Doppler Imaging

لینک ثابت مقاله در پایگاه سیویلیکا:





