Predictors of glycemic control in children with Type 1 diabetes mellitus in Assiut-Egypt

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Abstract:

Background: Type 1 diabetes mellitus (T1DM) may lead to severe long-term health consequences, such as renal failure, blindness, as well as heart and cerebrovascular disease. Although a direct relationship between blood glucose control and diabetes complications remains to be established beyond doubt, most diabetologists aim to achieve the best possible glucose control in their patients with T1DM. The aim of this study was to detect the predictors of glycemic control among children with T1DM in Assiut Governorate-Egypt. Materials and Methods: We enrolled 415 children aged 2 to 18 years with type 1 diabetes of >1-year duration. They were subjected to full history including demographic factors and disease-related factors. Examination was done with determination of the body mass index, and assessment of stage of maturity. Investigations included hemoglobin A1c (HbA1c) and lipid profile. Patients with HbA1c above the recommended values for age by the American Diabetes Association were considered as poor glycemic control group. Results: Of the studied cases, 190 cases (45.8%) were of poor glycemic control. Patients with poor control had significantly higher mean age (16.83 ± 3.3 vs 9.77 ± 3.7, P

Keywords:

Predictors, Type 1 diabetes, glycemic control, hemoglobin A1c

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