

Study of association between Vitamin D levels and HbA₁C levels in children with diabetes mellitus type 1.

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Abstract:

Aims and Objectives: To evaluate the association between diabetes mellitus type 1 (T1DM) and vitamin D deficiency, to compare vitamin D deficiency and glycemic control in paediatric patients with diabetes. **Materials and Methods:** It's a cross-sectional study done at civil hospital, Ahmedabad over a period of 10 months from October 2016 to July 2017. A total of 45 patients having DM type 1 in age groups between 1 to 12 years of age were included in the study. Vitamin D and HbA₁C levels were done in all the patients. Patients with malnutrition, liver disease and end stage renal disease were excluded from the study. **Results:** The incidence of vitamin D deficiency in 75.5% among patients with T1DM. 59% of the vitamin D deficient group showed poor control with HbA₁C levels >9%.

Key words: Cholecalciferol, Diabetes mellitus type 1, Ergocalciferol, HbA₁C.

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