The relationship between Vit D blood level and FBS & HbA1C in patients with type 2 diabetes in Emam Reza Hospital from 1391_1392

**Background:** Type 2 diabetes mellitus (T2DM) and Vitamin D deficiency, both too common. Various investigations argue the association between two diseases, however, findings are contradictory and controversial. The aim of the present study was to examine the effect of complementary vitamin D supplementation on improvement of various glycemic parameters in T2DM.

**Materials and Methods:** In a case control, 40 persons of T2DM patients in Emam Reza Hospital from 91-92 year were selected and examined their blood level of Vit D, BS, FBS, Ca, p, insulin HbA1C.

**Finding:** In this study between vitamin D level and blood glucose and FBS & HbA1C and BS has negative relationship. There was not significant deference of age, sex, BMI and serum levels of Ca, HDL, LDL and 25OH vitamin D between two groups before study.

**Conclusion:** In this study vitamin D level and FBS & HbA1C and BS has significant negative relationship. Vitamin D level and insulin has significant positive relationship.

**Keywords:** Vit D, Diabetes type 2, FBS, HbA1C