Abstract

**Background and Objective**: T3 resin uptake test indicates the availability of thyroxin binding globulin (TBG), which is the carrier of a large amount of T3 and T4 in blood. We aimed to study the relationship between serum T3 Resin Uptake and serum lipids profile.

**Material and Methods**: The participants aged 14.80 ± 38.29 were both males (59; 29.5%) and females (141; 70.5 %). T3 Resin Uptake was measured by Immunoassay method and serum lipid profile components (cholesterol, triglycerides, HDL-C, LDL-C, and VLDL) were measured by the kit.

**Results**: Significant negative correlation was observed between serum T3 Resin Uptake and cholesterol, triglycerides and LDL-C (P≤ 0.05), but that was not the case for HDL-C and VLDL.

**Conclusion**: Serum T3 Resin Uptake can be evaluated to assess the risk factors related to cardiovascular disorders.

**Keywords**: Cholesterol, Triglycerides, T3 Resin Uptake, lipoprotein, Lipid Profile