

Correlation between Serum T3 Resin Uptake and Serum Lipid Profile

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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 ($P \leq 0.05$), 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