

## Correlation between Serum T3 Resin Uptake and Serum Lipid Profile

**Dinarvand, GH. (MSc)**

MSc of Biochemistry, School of Medicine, Abadan University of Medical Sciences, Abadan, Iran

**Veis Raygani, A. (PhD)**

Professor of Biochemistry, School of Medicine, Kermanshah University of Medical Sciences, Kermanshah, Iran

**Ghanbari, N. (BSc)**

BSc of Microbiology, Kermanshah University of Medical Sciences, Kermanshah, Iran

**Corresponding Author:**

Veis Raygani, A.

**Email:** [vasira@yahoo.com](mailto:vasira@yahoo.com)

**Received:** 23 Feb 2014

**Revised:** 6 Aug 2014

**Accepted:** 6 Sep 2014

**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  $14.80 \pm 38.29$  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, T<sub>3</sub> Resin Uptake, lipoprotein, Lipid Profile