# Study of alterations in lipid profile after burn injury.

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**Abstract:**

**Introduction**: After burn injury, changes in lipid profile occur in body. Dyslipidemia after burn injury is one of the important alterations. **Objective**: To check alterations in lipid profile after burn injury. **Materials and Method**: It was cross sectional study which was carried out on 250 burns patients of both sex, with an age group of 18-45 years, and varying burns percentage of 20-80% of total body surface area (TBSA). Serum cholesterol, serum LDL, serum HDL and serum triglyceride level were measured on XL-640 fully-auto biochemical analyser. Serum LDL and HDL were measured by Accelerator Selective Detergent Method. Serum cholesterol and triglyceride were measured by Trindor's method. **Results**: Results showed decrease in serum cholesterol, serum LDL and serum HDL, while increase in serum triglyceride level in burns patients compared to normal subjects. **Conclusion**: This study clearly showed the importance of measuring serum cholesterol, TG, LDL and HDL in burn patients and targeting changes that occur in their levels along the burns course, which may have beneficial effect in protection from organ damage, increasing survival rates and improving burn outcome.

**Keywords:** Triglyceride (TG), Low-density lipoprotein (LDL), High-density lipoprotein (HDL).

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