

Effect of haemodialysis on lipid profile in patients with chronic renal failure

Shilpa Kasat, Narendra Dange, Kumud Harley

Dr. Narendra Dange. Associate Professor, Department of Biochemistry, Government Medical College, Collectorate Road, Near Ashok Vatika, Akola, Maharashtra, Email- narendradng@yahoo.com, Mobile No- 7828916211, 9421721202

Abstract

Background: Chronic renal failure (CRF) is a debilitating condition associated with high cardiovascular morbidity and mortality. Increased oxidative stress are the cause for accelerated atherosclerosis in CRF patients. **Objectives:** To evaluate the effect of lipid profile in Pre-Hemodialysis patients. **Methodology:** Hospital based observational study was conducted tertiary care hospital. Total number of 40 cases who were on hemodialysis were taken and lipid profile was seen. **Result:** The concentrations of Blood urea, Serum creatinine were significantly elevated ($p > 0.001$) in Pre-hemodialytic patient. The mean concentrations of total Cholesterol were decreased in controls and increased in CRF patients during pre-hemodialysis sessions. The mean concentrations of LDL-C and VLDL-C were decreased in controls as compared to CRF patients during pre-hemodialysis. **Conclusion:** CRF patients undergoing Hemodialysis show increased generation of reactive oxygen species, which leads to altered lipid profile, leading to lipid peroxidation, which can be controlled by using lipid lowering drugs and antioxidant therapy to the patients.