CHAPTER - III

OBJECTIVES
PURPOSE OF THE STUDY

To determine the prevalence of impaired fasting glucose, impaired glucose tolerance, undiagnosed type-2 diabetes mellitus, insulin resistance, dyslipidemia, obesity, levels of plasma leptin, adiponectin and inter correlations within all these parameters of first degree relatives of type-2 diabetes mellitus patients.

Objectives of the work

1. To determine the incidence and prevalence of Impaired Fasting glucose (IFG), Impaired Glucose Tolerance (IGT) and type 2 Diabetes Mellitus (DM) in first degree relatives of well established type 2 diabetes mellitus patients based on the different parameters evaluated in study as mentioned ahead.

2. Determining the clinical markers i.e. fasting and post prandial plasma glucose, fasting serum cholesterol, triglycerides, HDL cholesterol, LDL-cholesterol and VLDL-cholesterol in first degree relatives of well established type 2 diabetes mellitus patients.

3. Determination of serum insulin levels and insulin resistance by using different methods as HOMA$_{IR}$, QUICKI, Insulin Sensitivity Index, Insulinogenic Index and Bennett Index.


5. Estimation of Adiponectin and Leptin as correlate markers to the above mentioned parameters in relation to first degree relatives.

6. To observe inter correlations amongst various above mentioned parameters in the study to determine significant of these in first degree relatives in developing diabetes, obesity and insulin resistance as expected ailments.