CHAPTER 2

SCOPE AND OBJECTIVES

Herbal medicines are the major remedy in traditional medicinal system and are they used in medicinal practice for thousands of years. The practice continues even today because of the biomedical benefits in many parts of the world. There is a phenomenal increase in the demand for the herbal medicines especially for those, which have been scientifically validated.

Hence the aim and objectives of the present study is to evaluate the pharmacokinetics and pharmacodynamics of major bioactive compounds from polyherbal formulations. The main objectives of the present study are,

- To standardize and establish quality control parameters of the polyherbal formulations.
- To establish the pharmacokinetics properties of Mangiferin from the D-Polyherbal formulation.
- To investigate the intra pharmacokinetic interactions of the major bioactive components of the patented N- polyherbal formulation.
- To investigate the relative bioavailability of Mangiferin from the polyherbal formulation by oral and intraperitoneal route of administration.
- To elucidate the possible metabolic profile of Mangiferin from the oral and intraperitoneal route of administration.
- To correlate the pharmacokinetics and pharmacodynamics of Mangiferin from the polyherbal formulation.
- To establish the clinical pharmacokinetic parameters of Mangiferin from the polyherbal formulation.