SCOPE OF THE PRESENT STUDY

Management of Diabetes mellitus through the Siddha system of medicine, a traditional, Indian system of medicine is claimed to be tried, time tested and trusted method. Among the Siddha anti-diabetic formulations, “Neerazhivu chooranam” is a reputed and popular polyherbal scientifically under explored formulation. This formulation suffers from patients non-compliance because of cumbersome dosage form, instability, lack of packaging studies, difficulty in dose selection and administration.

These disadvantages are overcome by formulating the same into a tablet and capsule dosage form. Quality control parameters such as raw material standardization including pesticide residue detection, in processes and finished product quality control studies were carried out under the following headings: Organoleptic, Pharmacognostical, Physical, Chemical, Pharmacological and toxicological evaluation. Stability studies have also been carried out.

Thus the scope of this research are formulating the, “Neerazivu chooranam” into a tablet and capsule formulation.

I. Standardization of plant raw materials.
   a. Organoleptic evaluation
   b. Powder analysis
   c. Proximate analysis
   d. Determination of pesticide residues
   e. Determination of heavy metal content
   f. Determination of microbial contamination
   g. TLC & HPTLC studies
II. Phyto-formulation studies
III. Finished product Standardization.
   i) Phytochemical evaluation
   ii) Phytoanalytical evaluation
   iii) Pharmacological evaluation
   vi) Toxicological evaluation
   v) Stability studies.