AIM AND OBJECTIVE

Aim

The present investigation was aimed to determine the hepatoprotective effect of the Biherbal extract (BHE), made up of equal proportions of *Melia azedarach* leaves and *Piper longum* seeds in experimental animals with CCl₄ as hepatotoxic model. The hepatoprotective effect of the Biherbal extract (BHE) was also compared with biological efficacy of individual plant preparations.

Objective

The study was carried out in the following stages.

1. Preparation of the bi herbal ethanolic extract (BHE) of the leaves of *Melia azedarach* and seeds of *Piper longum* and their individual ethanolic extracts.

2. To assess the acute and chronic toxicity of BHE.

3. To determine the effective dose of the test drug which gives optimum therapeutic effect.

4. To compare the hepatoprotective effect of BHE with the standard drug Silymarin

5. To evaluate a tentative mechanism of action of the drug.
The objective also includes the

1. The determination of the major phytochemicals in the test extract and HPTLC finger printing.

2. Quantitative analysis of macronutrients and minerals including protein pattern by SDS-PAGE.

3. \textit{In vitro} antioxidant studies of plant extracts.

4. \textit{In vitro} DNA fragmentation study.