Work Plan and Methodology:

1. **Study Site:**
   This study will be conducted in the inpatient of Medicine, pediatric and OBG departments of Basaveswara Medical College Hospital & Research Centre, Chitradurga, Karnataka state, India. This tertiary care teaching hospital is 750 beded multi-specialty hospital and serves both in-patient and out-patient through separate setup.

2. **Study design:**
   This study is prospective and observational.

3. **Study period:**
   The study will be conducted over a period of six months (January to June 2013)

4. **Study Criteria**
   All patients who admitted in the Medicine, pediatric and OBG department of the hospital during study period will be eligible for enrolment.

   Patient who meets the following criteria will be enrolled.

   **Inclusion criteria:**
   - Inpatients from either sex in the Medicine, pediatric and OBG departments
   - Inpatients aged less than 80 years old in Medicine, pediatric and OBG departments
   - Patients admission more than 48 hours in Medicine, pediatric and OBG departments
   - Inpatients or care takers are willingness to participate in study.
   - Inpatients or care takers should be able to read, write and converse in English or Kannada.
   - If inpatients comprised at least more than one prescribed drug in Medicine, pediatric and OBG departments
Exclusion criteria:

- Patient admission in ward other than Medicine, pediatric and OBG inpatients ward/unit and department will be excluded from study.
- Patients which will be treated from the outpatient departments,
- Patients do not require more than 48 hours hospital stay will be excluded from the study.

5. Study Materials/Source:
   - Consent Form
   - Study Information Sheet
   - Data Collection Form
   - Drug Interaction Checker Software
   - Drug Interaction Hand Books
   - Drug Information Hand Books

6. Ethical Clearance

   Study ethical clearance will be obtained from Institutional Ethical Committee BMCH & RC, Chitradurga.

7. Study Procedure:

   Patients who satisfy study criteria will be included into the study. Sample selection will be done on six days a week and study will be conducted on Medicine, pediatric and OBG departments. Inpatient’s demographic details, medical history, case notes and medication records will be collected and documented in a suitably designed data collection form. A validated questionnaire will be administered to the inpatient at baseline to assess knowledge and attitude of the inpatient towards the medication related problem during treatment. The data will be analyzed by using Microsoft Excel in a computer. Data analysis will be presented in tabulated form. While monitoring and analyzing the drug related problem by interviewing with patient and/or care takers that, will be improve the patient care or pharmaceutical care.

8. Hypothesis testing

   Results will be analysis by statistical methods.