# A study to access various factors influencing and awareness about pharmaco/chemorefractory tuberculosis [M/XDR-TB] in tuberculosis patients attending Government hospital of G R Medical College, Gwalior

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### Introduction

Drugs resistance in tuberculosis comprisesa. Multi drug resistance tuberculosisWHO defines MDR-TB as the strain which is at least resistant to isoniazid and rifampicin with or without resistant to other anti tubercular drugs.b. Extensively Drugs resistance TB: -Cases of TB that are resistant to almost all second line dragger termed extensively drugs resistant Thus a person infected with MDR-TB & XDR-TB will unable to be cured by short course chemo therapy which relies chiefly on these two drug. Primary drug resistance occurs mainly to a single drug and combination of drug lessen the chances of drug resistance. In all countries and specially those where the number of case of TB is rising rapidly because of the association with HIV the development of resistant strain, the development of resistance strain of TB is serious concern. In 2008 about 0.5 million people worldwide are estimated to be infected with strain of drug resistant TB. An accurate picture of drug resistance is not available because few countries not having are available drug resistance surveillance system. It is estimated that primary MDR-TB in India is around 3% .The drug resistance retreatment cases is 12-17%. Although the level of MDR-TB in the country is low in relation to percentage and proportion, it translates in to a large absolute number. The most serious danger MDR-TB is that, it is much more difficult to treat even where second line drug are available ,treatment of MDR, TB can take at least two year and the result are poor. The magnitude of the crisis remains to be determined with the dip in the laboratory capabilities for conducting quality assured susceptibility test especially for second line drug.

### **Objectives**

- 1. To study the causative factors behind drugs resistance in TB.
- 2. To study conventional doses and their effectiveness in TB patient.

- 3. To study determinants and prevalence of antitubercular drugs resistance among new TB patient and also amongst previously treated one.
- 4. To provide guide lines for the potential improvement of management in M/XDR TB patient.

# Methodology

(A) Study Design: The present study will be institution based cross sectional descriptive study with qualitative and Quantitative component. Subject will be selected from population reporting to Tertiary care centre. A study Performa will be pre tested before the actually study will be under taken.(B)Study Area: The study is to be carried out at TB OPD and TB ward running at J A Group of Hospital of GR Medical College.(C) Study Subject: Approximately 22-25 patients per day are undergoing TB Screening. Subject will be selected by random samplings method from the patient attending the clinic during study period. (D)Consent:After explaining the nature, processor, purpose and other relevant details of the study verbal informed consent will be obtains from the subject. (E) Instrument Used For Assessmenta. Description of PerformaThe pre designed, pre tested, semi structured questionnaire will be used for data collection.b. Selection of respondentStudy subject who will visit the hospital during the study duration will be randomly selected.c. Data AnalysisAfter collection data will be alkalized by using various required statical method like percentage, proportions, graph, and tables by using suitable statistical software.

# *Implication of the study*

- 1. It will be help full in understanding the drugs resistance in TB which will help in framing new policies and also to know about the myth regarding problem and to make strategy to overcame this.
- 2. Ongoing evaluation of disease trends provide a more direct effect of program effectiveness and may be to determine the appropriations of the selected intervention strategies for a particular setting .