

MATHEMATICAL SCIENCES

(INCLUDING STATISTICS)

**Statistical Analysis of Antibiotic Effectivity and Sensitivity of
Urinary Tract InfectioncausingBacteria in Urban Population**

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Abstract:

Urinary Tract Infection is not fatal but the organisms become frequently resistant to a particular antibiotic which makes regular antibiotic sensitivity test mandatory. This investigation was undertaken involving 100 different subjects of different age groups from Kolkata showing recurrent UTI problem. Statistical analysis was performed on the data collected from pathological laboratories to compare antibiotic sensitivity of different antibiotics depending on colony counts and other factors. Statistical methods used were Test for Proportions, Chi-Square test and ANOVA. Results also showed that women compared to men and diabetic patients compared to non-diabetic ones are more susceptible to UTI .

