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## Annals of Biological Research

### Abstract

[Community acquired UTI-minimum inhibitory concentration](#)

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## [ciprofloxacin in uropathogens detected resistant to ciprofloxacin by disc diffusion method from rural tertiary care centre in Kerala](#)

**Author(s):** Ramakrishna Pai Jakribettu, Syed Mustaq Ahamed, Safeera M. I. V., Faseel P., Shakir V. P. A. and Arya B.

Antibiotic resistance in community acquired urinary tract infections has increased worldwide. Ciprofloxacin is the first drug of choice among the fluoroquinolones in community acquired UTI. But, resistance is emerging in the community against this antibacterial. To identify the Gram negative uropathogens causing morbidity in the community in the population studies and to know the Minimum Inhibitory concentration of ciprofloxacin in these uropathogens. The uropathogens from community acquired UTi were identified by conventional method over a period of two months. Antimicrobial susceptibility testing was performed by Kirby Bauer disc diffusion method while the MIC of Ciprofloxacin was determined by the agar dilution method as per CLSI guidelines. Among the Ciprofloxacin resistant Gram negative uropathogens Escherichia coli was the most predominant pathogen. The majority ( 70.59%) of the isolates were from female. Most of the uropathogens had MIC 128 µg/ml and were from geriatric group of patients. The study revealed that E.coli was the predominant uropathogen. Resistance to Ciprofloxacin is high in the community. This is the concern as Ciprofloxacin as the first line of drug in community acquired UTI may be failure.

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