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### Nitrofurantoin sensitivity pattern for uropathogens pan India

The prevalence of urinary tract infections (UTIs) varies from 21.8% to 31.3% in various parts of the country. The most common pathogens causing UTIs in the descending order of their prevalence include *Escherichia coli* (45.12%), *Klebsiella* spp. (18.17%) and *Enterococcus* spp. (9.23%). Nitrofurantoin was categorized as an A-I antibiotic for treating UTIs as per the IDSA guidelines, while nitrofurantoin 100 mg tablet dosage form was added to the WHO model list of essential medicines since 2013. The major strength of nitrofurantoin is its action at multiple sites and levels which helped the drug to maintain an excellent level of sensitivity over six decades of clinical practice besides being well tolerated for treating acute uncomplicated cystitis. In this review, we analyze, from all the recent accessible and available clinical studies, nitrofurantoin sensitivity pattern across various parts of India, while also comparing it with the sensitivity of other commonly used antimicrobials. We have found that not only nitrofurantoin has retained excellent sensitivity to the most common uropathogens across India, but also stands out to be the antimicrobial of choice when considering other parameters like oral route of administration, safety profile and cost-effectiveness in the management of UTIs.

### Biography

Ashok Rattan has expertise in Microbiology, Immunogenetics and Molecular Biology and holds important positions in academics (JN Medical College, Aligarh; AIIMS, New Delhi; Sharjah Medical College and Mahatma Gandhi Medical University, Jaipur); in industrial research (Ranbaxy New Drug Discovery and Fortis Clinical Research Ltd) and in Diagnostic labs (Religare SRL Diagnostics and Star Metropolis). He has published over 100 research papers in peer reviewed international journals. He has contributed more than a dozen chapters in different books and has conducted workshops on WHONET in all nine SEARO countries..

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