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Current Challenges and Gaps in the Management of Urinary Tract Infection

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ABSTRACT

Urinary tract infection is still a major clinical concern regarding its management, where various challenges are being faced before and after the treatment. Antibiotic resistance is a leading challenge faced during the treatment of UTIs. Since these infections are mainly caused by various microorganisms, they become resistant to commonly used antibiotics making the treatment for a longer period of time and this increases the economic burden of the patient. On the other hand, the management of recurrent UTIs remains a major challenge. The diagnosis of UTI and the methods used for screening the infection employs outdated processes till date for effective management of infection. Another major challenge is in the management of pediatric urinary tract infections, since they cannot be employed for clinical studies there's still a major lag in the management of paediatric UTI. Antimicrobial therapy with first-line and second-line agents available and certain other non-antibiotic approaches are still present to treat urinary tract infection. Certain plant based products, plant extracts, by products and plant parts are known to produce a satisfactory beneficial effects in the management of urinary tract infection. But the clinical data which is required to answer every question is makes a major gap to employ any alternative medicine.

KEYWORDS: Pediatric, urinary tract infection, recurrent, antibiotics, management

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