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### Antibiotics for causative microorganisms of urinary tract infections

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#### Abstract:

Background: Urinary tract infection is a common bacterial disease in children which may cause chronic renal failure and hypertension. Many reports suggest that the rate of antibiotic resistance to infectious organisms is increasing. Therefore periodic surveillance of resistance rates is needed to ensure that appropriate recommendations can be made for better management & preventing of late sequelae. Methods In this cross sectional descriptive study we investigate the results of urinalysis, urine culture and antibiotic sensitivity of the isolated organisms in the urine of 1556 children aged under 10 years in Mashhad city between April 2001 and June 2002. Described parameters are age, sex, incidence of significant bacteriuria, leucocyturia, causative bacterial agents, and antibiotic sensitivity pattern. Findings: The most common age group in both sexes was infantile period. Median age was 20.3 months in boys and 47.5 months in girls. E.coli, klebsiella and proteus were the causative organisms in 87.3%. They were sensitive to cefotaxime, cefixime, cephalotin, amikacin, ciprofloxacin, nitrofurantoin and gentamicin in more than 96% while resistant to trimetoprim-sultamethoxazol in about 75%. Conclusion: We recommend, with regard to continuous changing in causative microorganisms isolated from patients with urinary tract infection and antibiotic sensitivity pattern, as a guideline for physicians, to determine bacterial sensitivity in populations yearly.

#### Keywords:

Antimicrobial resistance

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