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**Original article:**

**Radiological abnormalities and complications of urinary tract infection among urine culture positive children**

**Dr Shradha Salunkhe, Dr Suhas Sodal , Dr Ashrita Jonnalagadda , Dr Sharad Agarkhedkar**

Department of Paediatrics, Dr. D. Y. Patil Medical College, Pimpri, Pune

Corresponding author: Dr Shradha Salunkhe

**Abstract:**

**Introduction:** Urinary tract is very often the site of bacterial localization. Symptomatology of urinary tract infection is quite variable. Urinary tract infection is very common cause of morbidity in infants and children. With this view the present study was planned to assess the radiological abnormalities in culture positive patients and to enumerate the complications of UTI among culture positive patients.

**Methodology :** With the help of ' predesigned, pretested questionnaire patients were evaluated by history, clinical examination, complete urine examination, urine culture and sensitivity, renal parameters, X ray KUB, MCUG and DMSA Scan. Children who met the inclusion criteria were screened (around 1-2/day). Urine for culture was sent in appropriate cases. Consent to carry out investigations was obtained from parents of each child after explaining to them the nature of illness in terms they could understand, most often in their own language.

**Results :** Out of 54 cases who were studied, 29 had normal study and 25 had abnormal study. out of which 8 had cystitis, 4 cases hydronephrosis (Grade IV VUR) 6 had echogenecity of co11ex; with pyelonephritis as a possibility and were further radiologically evaluated. 5 cases had calculi and 2 cases had pelvic uretic obstruction.

**Conclusion:** Radiological evaluation in children with first documented UTI is essential to prevent renal parenchymal damage that can cause hypertension and chronic renal failure at a later date.