



## Key Points

- **Infants & young children** → non-specific presentation:
  - **Fever & vomiting** most common
- **Verbal children** → fever, abdominal pain, & **urinary symptoms** common:
  - Dysuria
  - Urgency, frequency, & new incontinence
  - Hematuria



**Urinalysis** supports diagnosis:

- ✓ **Toilet-trained:** clean catch urine
- ✓ **Not toilet-trained:** in-and-out catheter

↑ **leukocyte esterase, nitrites**, or **WBCs** on microscopy suggests UTI.  
Confirm by **urine culture**.

## Pathogens

- **Escherichia coli** (80% of pediatric UTIs)
- Other enteric Gram negative organisms (eg. *Klebsiella pneumoniae*)

## Management

Empiric **3<sup>rd</sup>-gen. cephalosporin** (less *E. coli* resistance)  
→ eg. **cefixime 8 mg/kg/d PO** daily

*If not tolerating PO intake or <3 months old, consider:*

**IV antibiotics** (eg. **ceftriaxone** or **gentamicin**)

*\*Narrow antibiotics based on sensitivities\**



 Afebrile,  
immunocompetent

 Febrile

**Perform renal U/S if:**  
1<sup>st</sup> febrile UTI in  
children <2 years to  
assess renal/bladder  
anatomy & risks for  
recurrent UTI.

3-5-day course

7-10-day course



**Early intervention key in preventing renal damage.**

Can start empiric antibiotic therapy **immediately** after  
sterile urine collection if clinical/lab suspicion high.