For management of children ages 3 months to 12 years with suspected uncomplicated UTI. Management of your patient may require a more individualized approach.

Exclusions:
- Known major urinary tract abnormality, such as:
  - Grade V vesicoureteral reflux
  - Obstructive uropathy
  - Recent GU surgery
  - Neurogenic bladder
  - Immune deficiency

**Order Urine Specimen:**
- Urinalysis
- Urine culture
Do not order reflex UA or Urine Gram Stain
Choose source as midstream or cath, not voided

**Specimen Collection:**
- Non-toilet trained-
  - Urethral catheterization
- Toilet Trained-
  - Midstream clean catch

**Risk Factors for UTI**
**Female & Male Risk Factors >3 months to Fully Toilet Trained*:**

<table>
<thead>
<tr>
<th>Individual Risk Factors Girls</th>
<th>Probability of UTI in Girls</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Race</td>
<td>≤1% Probability of UTI: no more than 1 risk factors present</td>
</tr>
<tr>
<td>Age &lt;12 months</td>
<td>≤2% Probability of UTI: no more than 2 risk factors present</td>
</tr>
<tr>
<td>Temp ≥39°C</td>
<td></td>
</tr>
<tr>
<td>Fever ≥2 days</td>
<td></td>
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<tr>
<td>Absence of another source of infection</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Individual Risk Factors Boys</th>
<th>Probability of UTI in Uncircumcised Boys</th>
<th>Probability of UTI in Circumcised Boys</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonblack race</td>
<td>≤1% Probability of UTI: no more than 2 risk factors present</td>
<td>≤2% Probability of UTI: no more than 3 risk factors present</td>
</tr>
<tr>
<td>Temp ≥39°C</td>
<td></td>
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<tr>
<td>Fever ≥24 hours</td>
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<tr>
<td>Absence of another source of infection</td>
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</tbody>
</table>

*From AAP UTI Clinical Practice Guidelines

**Male & Female Fully Toilet Trained to 12 years old**
- Symptoms referable to urinary tract
- Fever ≥5 days (if prior history of UTI, fever ≥2 days)

**Special Considerations**
**Contraindication to Keflex (cephalexin):**
- Penicillin type 1 sensitivity (i.e., anaphylaxis, hives)
- Any known cephalosporin allergy/contraindication
- Exposure to Keflex (cephalexin) in last 30 days

**Contraindication to any other recommended antibiotic**
- Known allergy or sensitivity
- Exposure to particular antibiotic in the last 30 days

**Helpful Resources**
- Department of Pediatrics UTI Algorithm for the first UTI Age 2mo-2 years
- Pediatric Outpatient Antibiogram

**Flowchart Diagram**
- **Negative UA**
  - <5 WBC
  - ≤ trace LE
  - No bacteriuria
  - No nitrates
  - Continue to look for other sources of infection
- **Positive UA**
  - + nitrates OR > trace leukocyte esterase (LE) OR ≥5 WBC AND bacteriuria

**Initiate Empirical Treatment**

- **Consider Inpatient Admission & Start IV Antibiotics**
- Bactrim (TMP-SMX)
  - 8 mg/kg/day TMP in 2 divided doses for 10 days
  - MAX Single Dose 160 mg TMP
  - OR Cipro (ciprofloxacin)
    - 15 mg/kg/dose twice daily for 10 days
    - MAX Single Dose 750 mg/dose

**Discharge on PO antibiotics**

- **Keflex (cephalexin) Appropriate**
- **Keflex (cephalexin)**
  - 50-75 mg/kg/day in 3 divided doses for 10 days
  - MAX Daily Dose 4,000 mg/day