

Provider - Pediatric Ambulatory UTI Clinical Algorithm



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

History & Physical suggests UTI and meets inclusion criteria

Order Urine Specimen:

- Urinalysis
- Urine culture

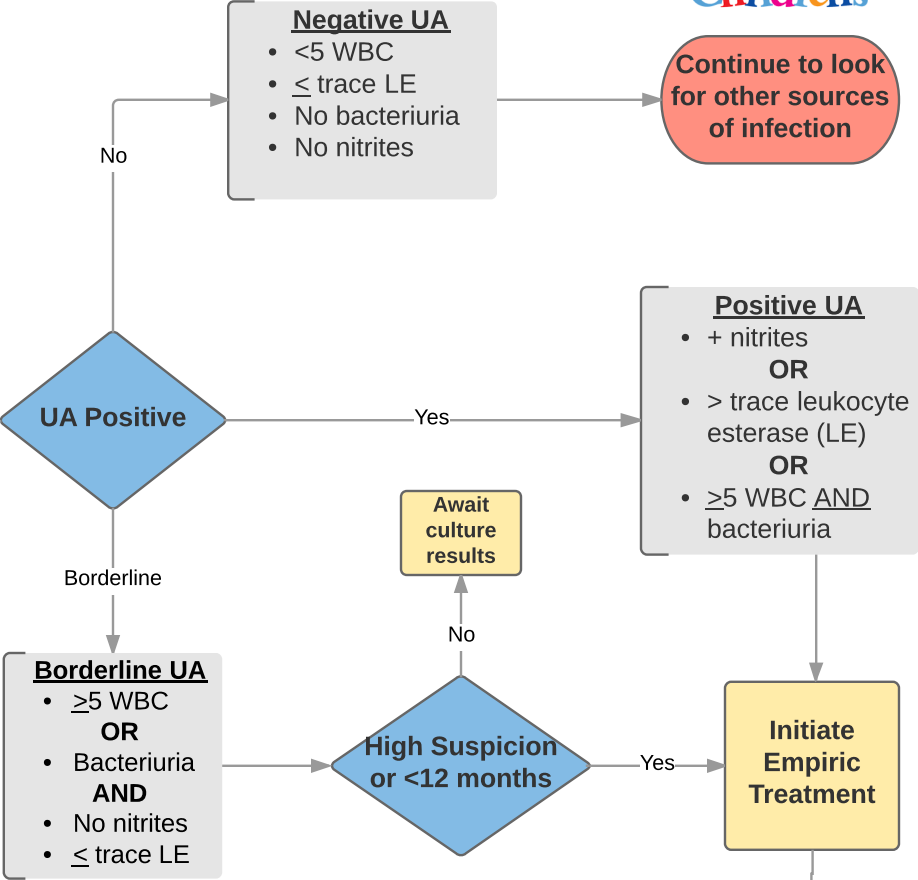
Do not order reflex UA or Urine Gram Stain

Choose source as midstream or cath, not voided

Specimen Collection:

- Non-toilet trained- Urethral catheterization
- Toilet Trained- midstream clean catch

*Fully toilet trained is defined as daytime dryness without accidents



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

<p>Individual Risk Factors Girls</p> <ul style="list-style-type: none"> • White Race • Age <12 months • Temp \geq 39 d C • Fever \geq 2 days • Absence of another source of infection 	<p>Probability of UTI in Girls</p> <ul style="list-style-type: none"> • \leq1% Probability of UTI- no more than 1 risk factors present • \leq 2% Probability of UTI- no more than 2 risk factors present
<p>Individual Risk Factors Boys</p> <ul style="list-style-type: none"> • Nonblack race • Temp \geq 39 d C • Fever \geq 24 hours • Absence of another source of infection 	<p>Probability of UTI in Uncircumcised Boys</p> <ul style="list-style-type: none"> • Probability of UTI exceeds 1% even with no risk factors other than being uncircumcised
	<p>Probability of UTI in Circumcised Boys</p> <ul style="list-style-type: none"> • \leq1% Probability of UTI- no more than 2 risk factors present • \leq 2% Probability of UTI- no more than 3 risk factors present

*From [AAP UTI Clinical Practice Guidelines](#)

Male & Female Fully Toilet Trained to 12 years old

- Symptoms referable to urinary tract
- Fever \geq 5 days (if prior history of UTI, fever \geq 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 Antibigram](#)

Consider Inpatient Admission & Start IV Antibiotics

OK for DC

Discharge on PO 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)
15mg/kg/dose twice daily for 10 days
MAX Single Dose 750mg/dose

Keflex (cephalexin) Appropriate

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