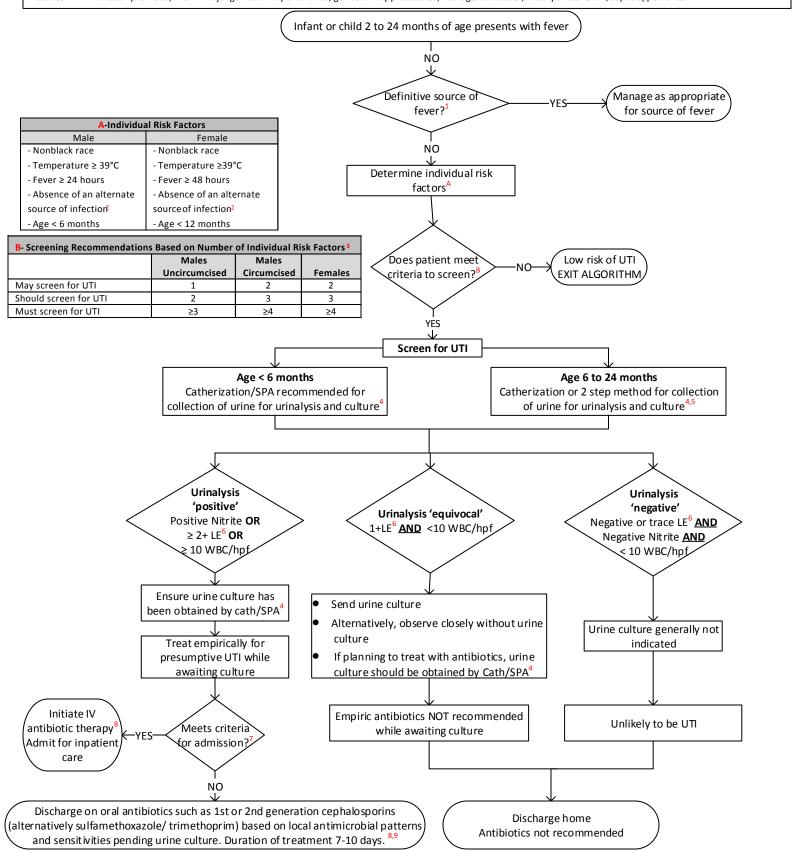
AAP Section on Emergency Medicine Committee on Quality Transformation Clinical Algorithm for Emergency Department Evaluation and Management of UTI in Febrile Infants and Young Children

Urinary tract infection (UTI) is the most common serious bacterial infection in infants and young children. This algorithm applies to infants or children 2 to 24 months of age presenting to an emergency department with fever, in whom UTI can be a possible source. This algorithm was developed by the American Academy of Pediatrics Section on Emergency Medicine in the interest of advancing pediatric healthcare. Guidelines are based on current literature and expert consensus. They are subject to change as new evidence emerges. Guidelines are not $applicable \ for \ all \ patients \ and \ do \ not \ replace \ clinical \ judgement. \ Ultimately, the \ patient's \ physician \ must \ determine \ the \ most \ appropriate \ care.$

Emergency Department (ED) Setting Scope Includes Patients 2 to 24 months of age with fever \geq 38°C

Immunocompromised; known major genitourinary anomalies; genitourinary procedures; neurogenic bladder; history of GU reflux; septic appearance Excludes



- 1- Definitive sources of fever: Bacterial meningitis; radiographic pneumonia; strep pharyngitis; purulent otitis media; other recognizable viral syndromes (Coxsackie, varicella, HSV stomatitis); Kawasaki disease; croup
- 2- Alternate sources of infection that might explain fever (e.g. bronchiolitis, gastroenteritis, upper respiratory infection, etc)
- 3- If history of previous UTI, lower threshold for UTI screening
- 4- SPA- suprapubic aspiration; suprapubic bladder aspiration recommended for urine specimen collection if anatomy precludes catherization
- 5- 2 step method involves using a bag specimen or clean catch specimen (including bladder simulation technique) as initial screen; if positive, need to obtain urine for culture using catherization/SPA
- 6- Leukocyte esterase (LE)- 1+(small), 2+ (moderate), 3+ (large)
- 7- Admission criteria: unable to tolerate oral fluids/medications, suspicion of complicated UTI (abscess, obstruction), compromised renal function, or unable to ensure follow-up/
- compliance; consider admission for younger infants 8- Antibiotic choice should be based on local patterns of resistance and MIC sensitivities.
- 9- If urine culture results do not suggest a UTI, contact family to discontinue antibiotics

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