

MSH Emergency Department

Pediatric Urinary Tract Infection Pathway

Date Created: 10/14/2021

Date Reviewed:

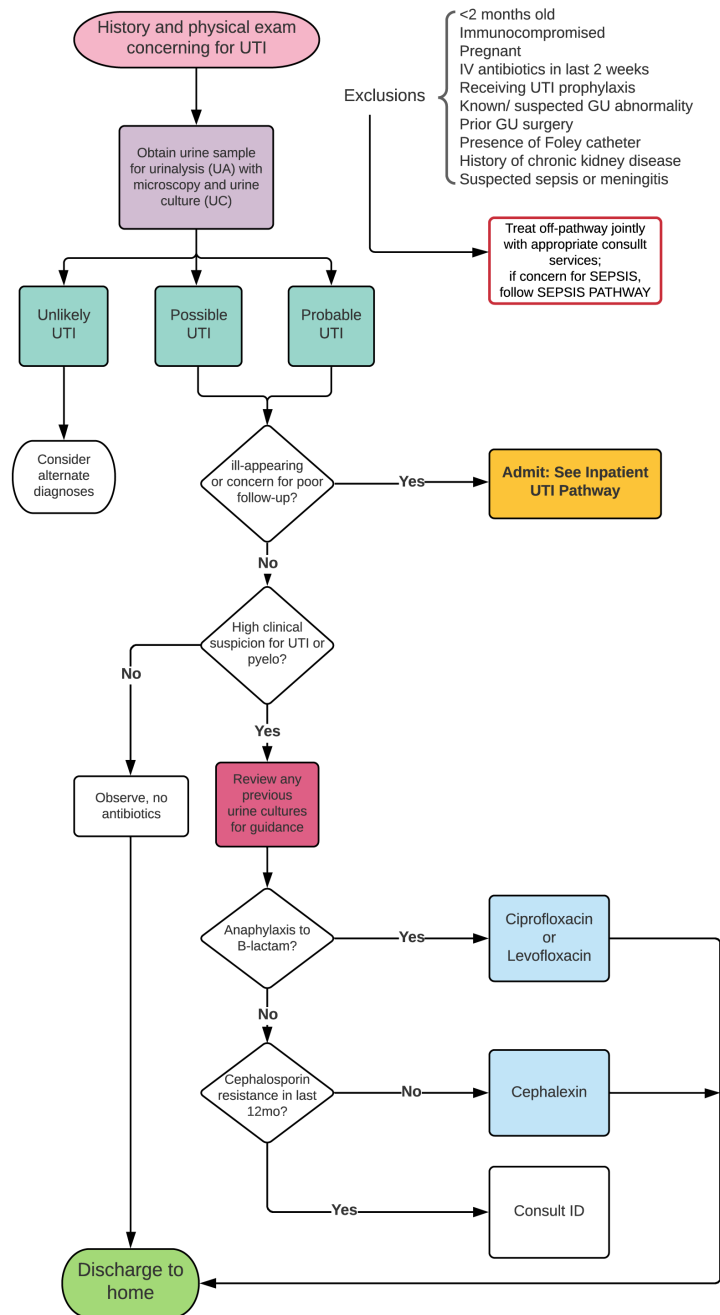
Reviewed By: S Bhadiraju, M Boyle, A Buttigieg, L Douglas, J Fune, N Hodo, D Lee, A Lim, L Ngai, R Posada, L Spina, J Tokarski, C Tran, L Zinns



Pediatric Urinary Tract Infection (UTI) Pathway

This pathway serves as a guide and DOES NOT replace clinical judgment

History and physical exam 2 months - 2 years old <ul style="list-style-type: none"> Fever Poor feeding Vomiting Lethargy, hypoactivity, irritability >2 years old <ul style="list-style-type: none"> Fever Dysuria Urinary frequency, hesitancy, urgency Enuresis/incontinence Abdominal pain, flank pain, suprapubic pain Note: Consider vaginitis in pre-toilet trained females Consider yeast infection, bacterial vaginosis, trichomonas, and pelvic inflammatory disease (PID) in sexually active females
Specimen collection Toilet-trained: Midstream clean catch Not toilet trained: Cath specimen <ul style="list-style-type: none"> If unable/refusal, bag UA with microscopy UC collection is ONLY acceptable by transurethral catheterization
Diagnosis Unlikely UTI <ul style="list-style-type: none"> UA negative Possible UTI <ul style="list-style-type: none"> High clinical suspicion and/or persistent fevers without identified infectious source AND Equivocal or positive UA AND Culture growth of single bacteria: <ul style="list-style-type: none"> Cath: $\geq 10,000$ cfu/mL Clean catch: $\geq 50,000$ cfu/mL Note: Positive culture from bagged urine specimen cannot be used to diagnose UTI Probable UTI <ul style="list-style-type: none"> UA positive: >5 WBC/hpf, +leukocyte esterase, +/- nitrite AND Urine culture growth of a single bacteria: <ul style="list-style-type: none"> Cath: $\geq 50,000$ cfu/mL $\geq 10,000$ CFU/mL in infants up to 2 years old when fever is also present Clean catch: $\geq 100,000$ cfu/mL Note: Positive culture from bagged urine specimen cannot be used to diagnose UTI
Empiric Antibiotics Cephalexin: 33 mg/kg/dose PO q8h (max: 1000 mg/dose) Ciprofloxacin: 20 mg/kg/dose PO q12h (max: 750 mg/dose) Levofloxacin: 6 mo to <5 y: 10 mg/kg/dose PO q12h (max: 375 mg/dose); ≥ 5 y: 10 mg/kg/dose PO q24h (max: 750 mg/dose) TMP/SMX: 5 mg/kg of TMP PO q12h (max: 160 mg of TMP/dose)
Culture Information If multi-drug-resistant organism in last 12mo, discuss with Infectious Disease If history of Enterococcus, may hold active empiric therapy against enterococcus in most cases For <i>E. coli</i> , <i>Klebsiella</i> , and <i>Proteus</i> , use cefazolin susceptibility as a surrogate for efficacy for ALL oral cephalosporins Do NOT use ceftriaxone to predict susceptibility for oral 3rd gen cephalosporins (e.g. cefpodoxime, cefdinir)
Discharge Instructions Follow up with PCP within 2d Antibiotic duration if treating: Cystitis: 3 days Pyelonephritis < 2y: 10 days Pyelonephritis ≥ 2 y: 7 days



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Pediatric Urinary Tract Infection (UTI) Inpatient Pathway

