

Urinary Tract Infections & Asymptomatic Bacteriuria Guidance

Northwestern Medicine Antimicrobial & Diagnostic Stewardship Program

Asymptomatic Bacteriuria	No antibiotics recommended – observe patient for development of urinary symptoms at this time • Patients who require treatment of asymptomatic bacteriuria include pregnant women, patients undergoing urologic procedure with anticipated mucosal damage, & recent kidney transplant
Cystitis Lower urinary tract symptoms without fever Dysuria Urgency Frequency Note: Foul smelling and/or cloudy urine alone are not signs	Note: Select based on prior urine cultures (previous 12 months) if available. Evaluate/Rule out prostatitis in males. Select one of the following: Oral Nitrofurantoin 100 mg PO BID x 5d *Avoid use if CrCl <30 ml/min Cephalexin 1000 mg PO BID x 5d TMP/SMX 1 DS PO BID x 3d Fosfomycin 3 g PO x 1 **reserve for E. coli, check local site for availability Severe Beta-lactam allergy (e.g., anaphylaxis): Nitrofurantoin 100 mg PO BID x 5d TMP/SMX 1 DS PO BID x 3d IV Therapy — should be reserved for patients unable to take PO meds
of cystitis	 Cefazolin 1000 mg IV q8hr x 3d Aztreonam 1000 mg IV q8hr x 3d if severe Beta-lactam <u>allergy</u>[^] (e.g., anaphylaxis)
Cystitis with catheter	Catheterized patients without a fever should not be treated for positive UA/UCx. Select based on prior urine cultures (previous 12 months) if available. Remove and replace catheter if present. Evaluate/Rule out prostatitis in males. Select one of the following:
Note: Catheterized patients without a fever should not be treated without other urinary symptoms	Oral Cephalexin 1000 mg PO BID x 5d TMP/SMX 1 DS PO BID x 5d
Pyelonephritis	 Ciprofloxacin 500 mg PO q12hr x 3d Aztreonam 1000 mg IV q8hr x 3d Note: Select based on prior urine cultures (previous 12 months) if available. If bacteremic, refer to <u>Biofire</u>
i yelonepilliis	Blood Culture Guidance for empiric therapy recommendations. Select one of the following: • Empiric Therapy (IV) ○ Cefazolin 2000 mg IV q8hr x 7d ○ If Hx of pathogens resistant to cefazolin ■ Empiric therapy should be guided by previous urine culture ■ Ceftriaxone 2000 mg IV q24hr x 7d if susceptible • Severe Beta-lactam allergy^ (e.g., anaphylaxis): ○ Aztreonam 1000 mg IV q8hr x 7d • Culture-directed or Step-down therapy (Oral) ○ Cephalexin 1000 mg PO q8hr x 7d ○ TMP/SMX 1 DS PO BID x 7d ■ Recommend doses ≥5mg/kg/day based on AdjBW w/renal adjustment as needed ○ Ciprofloxacin 750 mg PO q12hr x 7d
Acute Bacterial Prostatitis	Note: Select based on prior urine cultures (previous 12 months) if available. Select one of the following: • Empiric Therapy (IV)
	 ○ Ceftriaxone 2000 mg IV q24hr • Culture-directed or Step-down therapy (Oral) - Guided by susceptibilities: ○ Ciprofloxacin 500 mg PO q12hr ○ TMP/SMX 1 DS PO q12hr ■ Recommend doses ≥5mg/kg/day based on AdjBW w/renal adjustment as needed

[^] For patients with documented Beta-lactam allergy: see NM Allergy Considerations before prescribing an alternative agent

Note: For patients with other complex urologic-related infections such as recent catheter removal, cystoscopy, or obstruction: Consult urology and/or infectious diseases for management recommendations

ADSP.NM.ORG

Updated May 2023