Children's Wisconsin

Co-Management Guidelines

To support collaborative care, we have developed guidelines for our community providers to utilize when referring to, and managing patients with, the pediatric specialists at Children's Wisconsin. These guidelines provide protocols for jointly managing patient cases between community providers and our pediatric specialists.

UTI: Urinary Tract Infection					
Diagnosis/symptom	Referring provider's initial evaluation and management:	When to initiate referral/ consider refer to Urology Clinic:	What can referring provider send to Urology Clinic?	Specialist's workup will likely include:	Model of care
 Signs and symptoms Upper tract (i.e. pyelonephritis): fever > 38° C, nausea/vomiting, flank pain, general malaise Lower tract (i.e. cystitis): dysuria, frequency/urgency, incontinence, suprapubic pain, change in urine odor or color Neonates/Infants: fever > 38° C, irritability, poor feeding, vomiting, diarrhea, failure to thrive, jaundice, sepsis 	 Diagnosis: Catheterized specimen:	 Recurrent UTIs that are refractory to the recommended treatment Boys after the 1st febrile UTI/pyelonephritis, irrespective of imaging result Girls after the 1st febrile UTI/pyelonephritis, with abnormal imaging Boys and Girls after the 2nd febrile UTI/pyelonephritis, 	 Using Epic referral form, please complete: Urgency of the referral What is the patient's chief complaint Describe details Pertinent past medical history Abnormal lab or imaging findings What is the key question you want addressed Does patient have psychosocial stressors or mental health concerns 	After referral to Urology Clinic: 1. Your patient will receive testing only if it is warranted. 2. You will receive consultation letter with assessment and plan within a week of the visit. 3. You will receive updates any time the patient returns for follow up. You may receive a phone call if there are additional concerns.	

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	50,000 CFUs/mL may be considered a <i>possible</i> UTI depending on initial index of suspicion.	irrespective of imaging results 5. Consider an outpatient referral for boys or girls after the 1 st febrile UTI/pyelonephritis, if UTI required inpatient evaluation 6. Desire by the family or the primary provider to seek specialist evaluation following the 1 st febrile UTI/pyelonephritis	 2. Not using Epic referral form: Please fax (414-266-1752) the above information and include: Indicate if you want consult only, or consult and management of the problems. Send any X-ray films/reports with patient, if film was not done at Children's Send lab work, and any office notes regarding this patient's problems. Urology Office number: (414) 266-2460 	
Causes 75% of urinary tract infections are cause by Escherichia coli. The next most common pathogens are Klebsiella and Proteus, followed by Staphylococcus and Enterococcus.	 Urinalysis Leukocyte esterase test: 71-86% sensitive in the context of clinically suspected UTI Nitrite test: highly specific; not sensitive in children who empty their bladders frequently Combination LE and nitrite positive: 94% sensitive for clinically suspected UTI Culture results of urine collected in a bag applied to the perineum are only valid when negative and are not routinely encouraged for this reason. 			

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Treatment and Drugs		
Behavior modification: robust		
hydration and frequent voiding		
Treatment of constipation		
3. Antibiotics		
4. RBUS and/or VCUG dependent		
upon number of febrile		
infections and/or under 6		
months of age		
Empiric therapy with oral antibiotics		
pending culture and sensitivity		
results:		
Age >60 days to <2 years		
Cystitis/Pyelonephritis:		
cephalexin for 10 days		
25 mg/kg/dose TID		
(Intravenous antibiotic treatment is		
highly recommended in infants who		
may not tolerate oral treatment)		
Age 2 to <12 years		
<u>Cystitis</u> : cephalexin for 7 days		
25 mg/kg/dose [max 500 mg/dose]		
TID		
Pyelonephritis: cephalexin for 10		
days		
25 mg/kg/dose [max 1000 mg/dose]		
TID		
Age ≥12 years		

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Cystitis: cephalexin for 3 days 25 mg/kg/dose [max 500 mg/dose] TID Pyelonephritis: cephalexin for 10 days 25 mg/kg/dose [1000 mg/dose] TID Toxic-appearing children or those who cannot tolerate oral medications should be treated parenterally		
If Hx of prior UTI, select empiric therapy		
based on previous urine culture		
sensitivities		
If allergy to cephalosporins or severe IgE-mediated reaction (i.e. anaphylaxis or anaphylactoid reaction) to penicillins (incl. amoxicillin), consider trimethoprim/sulfamethoxazole 5-6 mg/kg/dose [max 160 mg/dose trimethoprim for cystitis or pyelonephritis] BID for the duration recommended for cephalexin based on age and diagnosis		

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