## URINARY TRACT INFECTIONS at West Park Healthcare Centre

## 1. Empiric Antimicrobial Regimens

- a. The empiric regimens below are based on the 2024 WPHC antibiograms.
- b. Consider the patient's historical urine C&S results and recent antimicrobial regimens prior to selecting empiric treatment.
- c. Usual dosages are provided below; adjust in renal impairment.

Type of UTI	1 <sup>st</sup> Line Empiric Therapy	2 <sup>nd</sup> Line Empiric Therapy
UNCOMPLICATED CYSTITIS (NO systemic involvement)	Nitrofurantoin <sup>a,b</sup> monohydrate/macrocrystals capsule (MacroBID®) 100 mg PO q12h for 5 days <i>If enteral tube:</i> Nitrofurantoin tablet 50 mg ENT q6h for 5 days	Fosfomycin 3 g PO once
MILD TO MODERATE  PYELONEPHRITIS or COMPLICATED UTI  (clinically stable, systemic involvement)	Amoxicillin-clavulanic acid 875/125 mg PO q12h for 7 days	Sulfamethoxazole 800 mg/trimethoprim 160 mg (=1 DS tab or 2SS tabs) PO q12h for 7 days  If sulfamethoxazole/trimethoprim cannot be used: Ciprofloxacin 500 mg PO q12h for 7 days
	If unable to tolerate oral: Ceftriaxone 1 g IV q24h for 7 days  If suspected pathogen include:  ESBL/ampC organism: - change to Ertapenem 1 g IV q24h for 7 days  Enterococcus faecalis - ADD Ampicillin 1 g IV q6h	
SEVERE  PYELONEPHRITIS or COMPLICATED UTI  (high fever, sepsis/septic shock, clinically unstable)	Meropenem 1 g IV q8h AND Vancomycin 15 mg/kg IV q12h Duration: 7 days	If severe systemic/cutaneous adverse reaction to beta-lactams: Ciprofloxacin 400 mg IV q8h AND Vancomycin 15 mg/kg IV q12h  If suspected pathogen include: MDR gram-negative organisms ADD Tobramycin 7 mg/kg IV q24h (while investigations are pending)  Duration: 7 days

## Notes:

<sup>a</sup>Nitrofurantoin is excreted in the urine into the bladder, and exerts its bactericidal activity in the bladder.

Therefore, nitrofurantoin is <u>not</u> indicated in the treatment of **pyelonephritis or complicated UTI** due to poor renal tissue levels. Generally **avoid use if CrCI is less than 30 mL/min** due to insufficient excretion into the bladder at the site of infection.

<sup>b</sup>Do **NOT** use **empirically** in men unless invasive disease (e.g., prostatitis, epididymitis) is ruled out.