Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP): Urinary Tract

Urinary Tract Infections

Urinary Tract Infections■

- 1. Non-pregnant patients with <u>asymptomatic</u> bacteruria do NOT require antibiotic treatment.
- 2. Bacteriuria in a patient with an indwelling urinary catheter is NOT an indication for treatment unless there are specific clinical features of infection. Removal of the urinary catheter at the earliest possible time is the best approach to dealing with catheter-associated bacteriuria.
- 3. A practice of routine antimicrobial prophylaxis with gentamicin or other agents at the time of catheterisation is NOT appropriate. See surgical prophylaxis section for note related to recent urological surgery.
- 4. **Multi-drug resistant organisms (MDRO)** are relatively common in patients with UTI from a nursing home setting and increasingly in other patients, <u>Review recent previous urine culture and sensitivity</u>. See note on <u>ESBL</u> and <u>MDRO</u>.
- 5. Check if any recent GP urine culture and sensitivities from iLab or contact the GP
- 6. These are summary empiric antibiotic choices. Full detailed Women's and Children's (WAC) Group Management of Urinary Tract Infections (UTI's) in Pregnancy are available on QPulse.

Infection	1 st Line Antibiotics	Comment		Duration
The regimens below may NOT				
•		n PO 50mg every Adjust initial treatment based on culture & sensitivity results. f eGFR<30ml/ min/1.73m ² , discuss patients with		Duration for non-pregnant
E	6 hours			women :
	Avoid nitrofurantoin if eGFR	Microbiology or Infectious Dise		3 days for nitrofurantoin
	<45 ml/min/1.73 m2. When	wicrobiology of milectious bise	4365	o days for mitoraramon
	potential benefit outweighs	If pregnant , see WAC Directorate Management of Urinary Tract Infections in Pregnancy (QPulse CLN-OGCP-227)		(7 days in males)
	isk, it may be used with			
	caution if the eGFR is 30-44			
	ml/min/1.73 m2 for a short			
	course only (3-7 days)			
	I st Line Antibiotics	Penicillin allergy:	Penicillin allergy:	Duration
			immediate or severe	
		reaction	delayed reaction	
		See penicillin hypersensitivity s		
Pyelonephritis or	Piperacillin/tazobactam IV		Ciprofloxacin IV 400mg (or PO	
Complicated UTI	4.5g every 8 hours	hours	500mg) every 12 hours	is 10 days.
oomphouted off	÷	Add Gentamicin IV IF Sepsis .	(consider oral route from	Longer duration may be
Non-pregnancy		Give one dose per GAPP App	outset).	necessary in males-discuss
	Gentamicin IV one dose per	calculator. See footnote* re	See Fluoroquinolone warning	with Microbiology or Infectious
	GAPP App calculator. See	further doses and monitoring.		Diseases
l l l l l l l l l l l l l l l l l l l	ootnote* re further doses and		,	
	monitoring.			7 days if therapy is with
	Construction of the second second second			Ciprofloxacin
	f patient is septic and/or		Add Gentamicin IV IF Sepsis.	Consider switch to see
	acutely unwell discuss with		Give one dose per GAPP App	
	Microbiology or Infectious Diseases		calculator. See footnote* re further doses and monitoring.	therapy if good early clinical
		Momon's and Children's (MAC	-	response to IV therapy. Duration as per QPulse
· ·	•	Women's and Children's (WAC in Pregnancy (QPulse CLN-O		CLN-OGCP-227
	• • •	Gentamicin IV every 24 hours,		
	nours	(use booking weight).		
	louis	See footnote* re review and monitoring. See footnote^ re use		
	Add Gentamicin IV IF Sepsis .			
	Give one dose per GAPP App	in pregnancy.		
	calculator (use booking			
	weight). See footnote* re	+		
	urther doses and monitoring.	Either (depending on Group B		
	See footnote^ re use in	result if available)		
	pregnancy.			
		Vancomycin IV infusion, dose per GAPP App calculator (use		
		booking weight). See footnote* re review and monitoring.		
		OR		
		Clindamycin IV 900mg every 8 hours		
		Give first doses, THEN IMMEDIATELY discuss with		
		Microbiology or Infectious Diseases to discuss further		
		therapy.		
	d in pregnancy when benefit ou			

Registrar recommended. Up to three once daily doses of Gentamicin may be indicated for pyelonephritis. For advice on monitoring see <u>Gentamicin</u> & <u>Vancomycin</u> Dosing & Monitoring section.

Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP) - Last Updated: Sept. 2, 2024, 9:40 a.m., printed: Sept. 16, 2024, 4:36 p.m.

page 1 of 2

Refs:

- 1. IDSA/ESCMID Guidelines for the treatment of acute uncomplicated cystitis and pyelonephritis in women. <u>Clin Infect Dis 2011;52:e103-e120</u>
- 2. <u>SIGN160</u>: Management of suspected bacterial lower urinary tract infection in adult women. Sept 2020
- 3. Women's and Children's (WAC) Group Management of Urinary Tract Infections (UTI's) in Pregnancy (QPulse CLN-OGCP-227)
- 4. NICE guidelines <u>NG 109</u> : Urinary tract infection (lower): antimicrobial prescribing. Published 31 October 2018
- 5. NICE guidelines NG 111 : Pyelonephritis (acute): antimicrobial prescribing. Published 31 October 2018
- 6. Antimicrobial for 7 or 14 Days for febrile Urinary Tract Infection in Men: a multicentre noninferiority double-blind, placebo-controlled, randomized clinical trial. Clin Infect Dis 2023:76 2154-2162

Prophylaxis of Recurrent Urinary Tract Infections

Prophylaxis of Recurrent Urinary Tract Infections

Discussion with Microbiology or Infectious Diseases is recommended. In the absence of a correctable anatomical or other predisposing factor for recurrent UTI, prophylaxis for a period of 3 to 6 months may be considered. There is limited evidence of any additional benefit from such prophylaxis beyond 6 months. In general the most appropriate agent for prophylaxis is nitrofurantoin PO 50mg to 100 mg at night.

CAUTION: Continuation of nitrofurantoin is very rarely justified and if considered should be discussed with Microbiology or Infectious Diseases. Monitor lung and liver function in patients on long-term nitrofurantoin therapy. Avoid in renal impairment (eGFR less than 45ml/min/1.73m² when used as prophylaxis).

Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP) - Last Updated: Sept. 2, 2024, 9:40 a.m., printed: Sept. 16, 2024, 4:36 p.m.

page 2 of 2