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. Review recent previous urine culture and sensitivity. See note on ESBL and MDRO.
- 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.

Empiric Antibiotics for Urinal		Commant		Duration
ntection	1 st Line Antibiotics	Comment		Duration
	OT cover Multi-drug Resistant Org			
Systitis/Lower UTI	Nitrofurantoin PO 50mg every	Adjust initial treatment based of	Duration for non-pregnant	
	6 hours	If eGFR<30ml/ min/1.73m ² , discuss patients with		women :
	Avoid nitrofurantoin if eGFR	1		3 days for nitrofurantoin
	<45 ml/min/1.73 m2. When	Wildioblology of Mileoticus Piscuses		o dayo for filtrofurantoni
	potential benefit outweighs	If pregnant, see WAC Directorate Management of Urinary Tract Infections in Pregnancy (QPulse CLN-OGCP-227)		(7 days in males)
	risk, 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)			
nfection	1 st Line Antibiotics	Penicillin allergy:	Penicillin allergy:	Duration
conon	i Ellic Altibiotics	contains and gy.	concomm unergy.	Duration
		delayed onset non-severe	immediate or severe	
		reaction	delayed reaction	
		See penicillin hypersensitivity :	section for further information	
yelonephritis or	Piperacillin/tazobactam IV	CefTRIAXone IV 2g every 24	Ciprofloxacin IV 400mg (or PC	Minimum duration of treatm
	4.5g every 8 hours	hours	500mg) every 12 hours	is 10 days.
Complicated UTI		L	(consider oral route from	
lon-pregnancy	+	Add Gentamicin IV IF Sepsis .	outset).	Longer duration may be
,	Gentamicin IV one dose per	Give one dose per GAPP App		necessary in males-discuss
	GAPP App calculator. See	calculator. See footnote* re	(See Fluoroquinolone warning	with Microbiology or Infection
	footnote* re further doses and	further doses and monitoring.	P	Diseases
	monitoring.			7 days if therapy is with
	The meaning.		Γ	Ciprofloxacin
	If patient is septic and/or		Add Gentamicin IV IF Sepsis.	o.pronoxaom
	acutely unwell discuss with		Give one dose per GAPP App	Consider switch to oral
	Microbiology or Infectious		calculator. See footnote* re	therapy if good early clinica
	Diseases		further doses and monitoring.	response to IV therapy.
Acute Pyelonephritis in	For full detailed guidance see	Women's and Children's (WAC) Group Management of	Duration as per QPulse
pregnancy	Urinary Tract Infections (UTI's)	Urinary Tract Infections (UTI's) in Pregnancy (QPulse CLN-OGCP-227)		
	CefTRIAXone IV 2g every 24	Gentamicin IV every 24 hours, dose per GAPP App calculator		İ
	hours	(use booking weight).		
	Add Contonicio IV/IE Concie	See footnote* re review and monitoring. See footnote^ re use		
	Give one dose per GAPP App	1		
	calculator (use booking	in pregnancy.		
	weight). See footnote* re	+		
	further doses and monitoring.			
	See footnote\ re use in	Either (depending on Group B		
	pregnancy.	result if available)		
	pregnancy.	Vancomycin IV infusion, dose per GAPP App calculator (use		
		booking weight). See footnote* re review and monitoring.		
		l l l l l l l l l l l l l l l l l l l	re review and memoring.	
		OR		
		Clindamycin IV 900mg every 8 hours		
		Give first doors. THEN IMMEDIATELY discuss with		
		Give first doses, THEN IMMEDIATELY discuss with Microbiology or Infectious Diseases to discuss further		
		therapy.		
A Centamicin is recommen	ided in pregnancy when benefit or	''		
Gernannich is recommen	ided in pregnancy when benefit of	umoidiio iiov.		

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

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Refs:

- 1. IDSA/ESCMID Guidelines for the treatment of acute uncomplicated cystitis and pyelonephritis in women. Clin Infect Dis 2011;52:e103-e120
- 2. SIGN160: 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 NG 109: 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).

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