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.

mfa atlan	ry Tract Infections	Camana and		Dungtion
nfection	1 st Line Antibiotics	Comment		Duration
	OT cover Multi-drug Resistant Org			
Cystitis/Lower UTI	6 hours	eGFR<30ml/ min/1.73m ² , discuss patients with		Duration for non-pregnant women : 3 days for nitrofurantoin
	<45 ml/min/1.73 m2. When potential benefit outweighs 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)	If pregnant , see WAC Directorate Management of Urinary Tract Infections in Pregnancy (QPulse CLN-OGCP-227)		(7 days in males)
nfection	1 st Line Antibiotics	Penicillin allergy:	Penicillin allergy:	Duration
		delayed onset non-severe reaction See penicillin hypersensitivity :	immediate or severe delayed reaction section for further information	
yelonephritis or	Piperacillin/tazobactam IV	CefTRIAXone IV 2g every 24	Ciprofloxacin IV 400mg (or PC	Minimum duration of treatm
Complicated UTI	4.5g every 8 hours	hours Add <u>Gentamicin</u> IV IF <u>Sepsis</u> .	500mg) every 12 hours (consider oral route from outset).	is 10 days. Longer duration may be
Non-pregnancy	Gentamicin IV one dose per GAPP App calculator. See footnote* re further doses and monitoring.	Give one dose per GAPP App calculator. See footnote* re further doses and monitoring.	(See <u>Fluoroquinolone warning</u>)	necessary in males-discuss with Microbiology or Infection Diseases 7 days if therapy is with
	If patient is septic and/or acutely unwell discuss with Microbiology or Infectious Diseases		Add Gentamicin IV IF Sepsis. Give one dose per GAPP App calculator. See footnote* re further doses and monitoring.	Ciprofloxacin Consider switch to oral therapy if good early clinica response to IV therapy.
Acute Pyelonephritis in pregnancy	Urinary Tract Infections (UTI's)	Women's and Children's (WAC) Group Management of in Pregnancy (QPulse CLN-OGCP-227) Gentamicin IV every 24 hours, dose per GAPP App calculator (use booking weight).		Duration as per QPulse CLN-OGCP-227
	Add Gentamicin IV IF Sepsis . Give one dose per GAPP App calculator (use booking weight). See footnote* re	See footnote* re review and monitoring. See footnote^ re use in pregnancy.		
	further doses and monitoring. See footnote^ re use in pregnancy.	Either (depending on Group B Streptococcus susceptibility result if available) 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.		

^{*} Review need for ongoing Gentamicin and Vancomycin on a daily basis. Continue with **once daily Gentamicin** dosing ONLY if **Consultant/Specialist 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. 8, 2024, 4:53 a.m.

page 1 of 2

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).

Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP) - Last Updated: Sept. 2, 2024, 9:40 a.m., printed: Sept. 8, 2024, 4:53 a.m.