

Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP): Urological Surgery

Antibiotics for Urological Surgery						
Type of Surgery	Procedure	1 st Line Antibiotic	Penicillin allergy:	Penicillin allergy:	Number & Timing of Doses	
			delayed onset non-severe reaction	immediate or severe delayed reaction		
See penicillin hypersensitivity section for further information						
Prophylaxis in Urological Surgery Whenever possible submit a pre-operative/pre-catheter removal urine sample. If urine culture is positive, base prophylaxis on the susceptibility report. See Note Regarding Risk Factors for MRSA See Note Regarding Multi-drug Resistant Organisms (MDRO)	Transrectal prostatic biopsy See Note Regarding Multi-drug Resistant Organisms (MDRO)	Ciprofloxacin PO 750mg every 12 hours for a total of 2 doses + Gentamicin IV one dose only, dose per GAPP App calculator			Ciprofloxacin PO 2 doses: 1 st dose 60 minutes prior to procedure; 2 nd dose 12 hours post-biopsy Gentamicin: One dose 30 minutes before biopsy.	
	Transperineal prostatic biopsy Brachytherapy Consider prophylaxis in patients at high risk of infection e.g. immunocompromised, poor general health, diabetes, immunosuppressive therapy	If indicated, use regimen above for transrectal prostatic biopsy				If indicated, use regimen above for transrectal prostatic biopsy
	Transurethral resection of prostate (TURP), nephrectomy, percutaneous nephrolithotomy (PCNL), radical prostatectomy, changing of stents/nephrostomy change	Gentamicin IV one dose only, dose per GAPP App calculator + Amoxicillin IV 1g (one dose only)	Gentamicin IV one dose only, dose per GAPP App calculator + Teicoplanin IV 10mg/kg* (Max 800mg) (one dose only)			One dose within 60 minutes before incision.
* Discuss dosing in obese patients with Microbiology, Infectious Diseases or Pharmacy						
Procedure	1 st Line Antibiotic	Penicillin allergy: delayed onset non-severe reaction	Penicillin allergy: immediate or severe delayed reaction	Number & Timing of Doses		
Robotic prostatectomy	Cefuroxime IV 1.5g		Gentamicin IV one dose only, dose as per GAPP App calculator + Teicoplanin IV 10 mg/kg* (Max 800mg) (one dose only)	One dose within 60 minutes of the procedure		
Extracorporeal shock wave lithotripsy				One dose within 60 minutes before incision.		
Cystourethroscopy with manipulation (includes transurethral resection of bladder tumour-TURBT, any biopsy, resection, fulguration, foreign body removal, urethral dilatation, ureteral instrumentation including catheterisation, stent placement/removal, stone removal)				One dose within 60 minutes before incision.		
Urological procedures involving bowel e.g. radical cystectomy	Co-amoxiclav IV 1.2g	Cefuroxime IV 1.5g (one dose only) + Metronidazole IV 500mg (one dose only)	Teicoplanin IV 10mg/kg* (Max 800mg) (one dose only) + Gentamicin IV one dose only, dose per GAPP App calculator + Metronidazole IV 500mg (one dose only)	One dose within 60 minutes before incision.		
Cystoscopy	<ul style="list-style-type: none"> Antibiotic prophylaxis generally NOT indicated for simple cystoscopy in the absence of risk factors. Prophylaxis, where indicated, should be guided by the results of urine microbiological cultures. Patients at increased risk of infection include those with pre-existing UTI, immunodeficiency, advanced age, anatomical abnormality of the renal tract, on immunosuppressive therapy and where additional procedures are performed during cystoscopy. 					
Routine prophylaxis is NOT recommended for urethral catheterisation or removal of urinary catheter . However, on removal of urinary catheter following recent urological surgery it may be appropriate to give gentamicin IV one dose only, dose per GAPP App calculator, infusion to be completed within one hour of catheter removal.						
* Discuss dosing in obese patients with Microbiology, Infectious Diseases or Pharmacy						