

# Letterkenny University Hospital - LUH Antimicrobial Prescribing Policy/Guidelines: Urological Surgery

Antibiotics for Urological Surgery						
Type of Surgery	Procedure	1 <sup>st</sup> Line Antibiotic	In penicillin allergy		Number & Timing of Doses	
<b>Prophylaxis in Urological Surgery</b>  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 <a href="#">MRSA</a>  See Note Regarding Multi-drug Resistant Organisms ( <a href="#">MDRO</a> )	<b>Transrectal prostatic biopsy</b>  See Note Regarding Multi-drug Resistant Organisms ( <a href="#">MDRO</a> )	Ciprofloxacin PO 750mg every 12 hours for a total of 2 doses  +  <a href="#">Gentamicin</a> IV one dose only, dose per LAPP App calculator			Ciprofloxacin PO 2 doses: 1 <sup>st</sup> dose 60 minutes prior to procedure; 2 <sup>nd</sup> dose 12 hours post-biopsy  <a href="#">Gentamicin</a> : One dose 30 minutes before biopsy.	
	<b>Transperineal prostatic biopsy</b>  <b>Brachytherapy</b>  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.
	<b>Transurethral resection of prostate (TURP), nephrectomy, percutaneous nephrolithotomy (PCNL), radical prostatectomy, changing of stents/nephrostomy change</b>		<a href="#">Gentamicin</a> IV one dose only, dose per LAPP App calculator  +  Co-amoxiclav IV 1.2g (one dose only)	<a href="#">Gentamicin</a> IV one dose only, dose per LAPP App calculator  +  Teicoplanin IV 10mg/kg (Max 800mg <sup>1</sup> ) (one dose only)	One dose within 60 minutes before incision.	
	<b>Extracorporeal shock wave lithotripsy</b>  <b>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)</b>		<a href="#">Gentamicin</a> IV one dose only, dose per LAPP App calculator *  * Additional stat dose of Co-amoxiclav may be used at the discretion of consultant Urologist for stone removal.			One dose within 60 minutes before incision.
		<b>Procedure</b>	<b>1<sup>st</sup> line antibiotic</b>	<b>Penicillin allergy: delayed onset non-severe reaction</b>	<b>Penicillin allergy: immediate or severe delayed reaction</b>	<b>Number &amp; Timing of Doses</b>
	<b>Urological procedures involving bowel e.g. radical cystectomy</b>	Co-amoxiclav IV 1.2g	CetUROXime IV 1.5g (one dose only)  +  Metronidazole IV 500mg (one dose only)	Teicoplanin IV 10mg/kg (Max 800mg <sup>1</sup> ) (one dose only)  +  <a href="#">Gentamicin</a> IV one dose only, dose per LAPP App calculator  +  Metronidazole IV 500mg (one dose only)	One dose within 60 minutes before incision.	
	<b>Cystoscopy</b>	<ul style="list-style-type: none"> <li>Antibiotic prophylaxis generally <b>NOT</b> indicated for simple cystoscopy in the absence of risk factors.</li> <li>Prophylaxis, where indicated, should be guided by the results of urine microbiological cultures.</li> <li>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.</li> </ul>				
Routine prophylaxis is NOT recommended for <b>urethral catheterisation or removal of urinary catheter</b> . However, on removal of urinary catheter following recent urological surgery it may be appropriate to give gentamicin IV one dose only, dose per LAPP App calculator, infusion to be completed within one hour of catheter removal.						
<b>1. Discuss dosing in obese patients with Microbiology or Pharmacy</b>						