

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

Antibiotics for Cardiothoracic Surgery					
Type of Surgery	Procedure	1 <sup>st</sup> Line Antibiotic	In penicillin allergy See <a href="#">penicillin hypersensitivity section</a> for further information	Number & Timing of Doses	
<b>Prophylaxis in Cardiothoracic Surgery</b>  See <a href="#">Note Regarding Risk Factors for MRSA</a>  See Note Regarding Multi-drug Resistant Organisms ( <a href="#">MDRO</a> )	<b>Coronary artery bypass graft (CABG)</b>	CefUROXime** IV 1.5g every 8 hours for a total of 3 doses (24 hour cover)  +  If risk factors for or colonised with <a href="#">MRSA</a> Add Teicoplanin IV 10mg/kg * (Max 800mg) every 12 hours for a total of 2 doses (24 hour cover)	<b>immediate or severe delayed reaction only:</b>  Teicoplanin IV 10mg/kg* (Max 800mg) every 12 hours for a total of 2 doses (24 hour cover)  +  <a href="#">Gentamicin</a> IV  ONE dose only, dose per GAPP App calculator (24 hour cover)	1 <sup>st</sup> dose within 60 minutes before incision & <b>continued for 24 hours.</b>	
	** Additional intra-operative dose of cefUROXime IV 1.5g required if duration of procedure > 4 hours or >1.5L intra-operative blood loss - See <a href="#">Antibiotics requiring additional intra-operative doses</a>				
	<b>Prosthetic valve surgery</b> As for CABG				
	<b>Transcatheter aortic valve implantation (TAVI)</b>	Co-amoxiclav IV 1.2g every 8 hours for a total of 3 doses (24 hour cover).	Co-amoxiclav IV 1.2g every 8 hours for a total of 3 doses (24 hour cover).  +  <a href="#">Gentamicin</a> IV  ONE dose only, dose per GAPP App calculator (24 hour cover)	Teicoplanin IV 10mg/kg* (Max 800mg) every 12 hours for a total of 2 doses (24 hour cover)  +  <a href="#">Gentamicin</a> IV  ONE dose only, dose per GAPP App calculator (24 hour cover)	1 <sup>st</sup> dose within 60 minutes before incision & <b>continued for 24 hours</b>
	<b>Cardiovascular Implantable Electronic Device placement (including permanent pacemakers and Implantable cardioverter-defibrillator (ICD))</b>	Flucloxacillin IV 1g one dose; continue 1g PO every 6 hours for another 3 doses (24 hour cover)  If risk factors for or colonised with <a href="#">MRSA</a> Replace Flucloxacillin with Teicoplanin IV 10mg/kg * (Max 800mg) every 12 hours for a total of 2 doses (24 hour cover)	Flucloxacillin IV 1g one dose; continue 1g PO every 6 hours for another 3 doses (24 hour cover)  If risk factors for or colonised with <a href="#">MRSA</a> Replace Flucloxacillin with Teicoplanin IV 10mg/kg * (Max 800mg) every 12 hours for a total of 2 doses (24 hour cover)	<b>Any history of penicillin allergy:</b>  Teicoplanin IV 10mg/kg* (Max 800mg) every 12 hours for a total of 2 doses (24 hour cover)	1 <sup>st</sup> dose within 60 minutes before incision & <b>continued for 24 hours.</b>
<b>Thoracotomy, Pulmonary resection</b>	CefUROXime** IV 1.5g every 8 hours for a total of 3 doses (24 hour cover)	CefUROXime** IV 1.5g every 8 hours for a total of 3 doses (24 hour cover)  +  <a href="#">Gentamicin</a> IV  ONE dose only, dose per GAPP App calculator (24 hour cover)	<b>immediate or severe delayed reaction only:</b>  Teicoplanin IV 10mg/kg *(Max 800mg) every 12 hours for a total of 2 doses (24 hour cover)  +  <a href="#">Gentamicin</a> IV  ONE dose only, dose per GAPP App calculator (24 hour cover)	1 <sup>st</sup> dose within 60 minutes before incision & <b>continued for 24 hours.</b>	
<b>Video-assisted thoracoscopy (VATS)</b>	CefUROXime** IV 1.5g (one dose only)	CefUROXime** IV 1.5g (one dose only)	<b>immediate or severe delayed reaction only:</b>  Teicoplanin IV 10mg/kg * (Max 800mg) (one dose only)  +  <a href="#">Gentamicin</a> IV  ONE dose only, dose per GAPP App calculator	One dose within 60 minutes before incision.	
* Discuss dosing in obese patients with Microbiology, Infectious Diseases or Pharmacy					