## Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP): Orthopaedic and Trauma Surgery

Antibiotics for Orthopaedic	and Trauma Surgery			
Type of Surgery	Procedure	1 <sup>st</sup> Line Antibiotic	Penicillin allergy: immediate	Number & Timing of Doses
			or severe delayed reaction	
			See penicillin hypersensitivity	1
			section for further information	
Prophylaxis in Orthopaedic	Closed clean orthopaedic	Antimicrobial prophylaxis NOT	required	
and Trauma Surgery	procedures without implant			
See Note Departing Dick	of foreign material (e.g.			
See <u>Note Regarding Risk</u>	arthroscopy)			
Factors for MRSA	Minor metalwork insertion	CefUROXime IV 1.5g (one	Teicoplanin IV 10mg/kg* (Max	One dose within 60 minutes
See Note Regarding		dose only)	800mg) (one dose only)	before incision. Give antibiotic
Aulti-drug Resistant	(e.g. K-wires, screws, small			prophylaxis at least 15
Organisms (MDRO)	orthopaedic plates)			minutes prior to tourniquet
- J				inflation.
	Orthopaedic implant	CefUROXime IV 1.5g every 8	Teicoplanin IV 10mg/kg* (Max	1 <sup>st</sup> dose within 60 minutes
	surgery (total joint	hours for a total of 3 doses (24	800mg) every 12 hours for a	before incision & <b>continued</b>
	replacement or revision)	hour cover)	total of 2 doses (24 hour	for 24 hours
			cover)	
	Open reduction with internal			Give antibiotic prophylaxis at
	fixation of closed fractures	with MRSA Add Teicoplanin	t i i i i i i i i i i i i i i i i i i i	least 15 minutes prior to
	Spinal surgery (with or	IV 10mg/kg * (Max 800mg)	Gentamicin IV one dose only,	tourniquet inflation.
	without implant).	every 12 hours for a total of 2	dose per GAPP App calculator	
	. ,	doses (24 hour cover)		
	Open fracture intervention	CefUROXime IV 1.5g every 8	Teicoplanin IV 10mg/kg* (Max	
	+/- insertion of nail/screw	hours	, , , , , , , , , , , , , , , , , , ,	before incision.
	(includes acute trauma with	+	doses, then every 24 hours	Duration usually 3 to 5 days
	contaminated wounds)		+	– maximum 24 hours post
		Metronidazole IV 500mg every	<i>,</i>	final wound closure.
		8 hours	Gentamicin IV dose per GAPP	
		See comment re duration	App calculator every 24 hours	It is vital that any patient
				with an open fracture be
			+	closely observed for signs
			Metronidazole IV	of sepsis. Please discuss with
				Microbiology or Infectious
			500mg every 8 hours	Diseases if necessary and if
				treatment with gentamicin is
			See comment re duration	extended beyond 3 days
	Debridement	Prophylactic antibiotic depends	s on infecting organism(s).Chec	k results of previous cultures if
	surgery/patients with	available. Discuss with Microbiology or Infectious Diseases if necessary.		
	chronic bone infection			
	* Discuss dosing in obese patie	nts with Microbiology, Infection	us Diseases or Pharmacy	

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