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

Antibiotics for Orthopaedic	and Trauma Surgery				
Type of Surgery	Procedure	1 st Line Antibiotic	Penicillin allergy: immediate	Number & Timing of Doses	
			or severe delayed reaction		
			See penicillin hypersensitivity		
			section for further information		
Prophylaxis in Orthopaedic	Closed clean orthopaedic	Antimicrobial prophylaxis NOT	required		
and Trauma Surgery	procedures without implant				
	of foreign material (e.g.				
See Note Regarding Risk	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	
Multi-drug Resistant	(e.g. K-wires, screws, small			prophylaxis at least 15	
Organisms (MDRO)	orthopaedic plates)			minutes prior to tourniquet	
organiomo <u>(mbrto)</u>				inflation.	
	Orthopaedic implant	CefUROXime IV 1.5g every 8	Teicoplanin IV 10mg/kg* (Max	1 st dose within 60 minutes	
	surgery (total joint	hours for a total of 3 doses (24	800mg) every 12 hours for a	before incision & continued	
	replacement or revision)	hour cover)	total of 2 doses (24 hour	for 24 hours	
		L	cover)		
	Open reduction with internal			Give antibiotic prophylaxis at	
	fixation of closed fractures	with MRSA Add Teicoplanin	 	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)	l		
	Open fracture intervention	1	Teicoplanin IV 10mg/kg* (Max		
	+/- insertion of nail/screw	hours	800mg) every 12 hours for 3	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	1	final wound closure.	
		8 hours	Gentamicin IV dose per GAPP		
		S	App calculator every 24 hours	It is vital that any patient	
		See comment re duration	l .	with an open fracture be	
			T .	closely observed for signs	
			Metronidazole IV	of sepsis. Please discuss with	
				Microbiology or Infectious	
			500mg every 8 hours	Diseases if necessary and if	
			See comment re duration	treatment with gentamicin is	
				extended beyond 3 days	
	Debridement	' '	0 0 1,	k results of previous cultures if	
	• • •	available. Discuss with Microbi	iology or Infectious Diseases if	necessary.	
	chronic bone infection				
	Discuss dosing in obese patients with Microbiology, Infectious Diseases or Pharmacy				