

## ANTIBIOTIC PROPHYLAXIS-TRAUMA AND ORTHOPAEDIC SURGERY

### Trauma Orthopaedics

Procedure	Recommendation	Alternative for serious penicillin allergy or MRSA carrier
<p><b>Open fracture or penetrating injury into joint cavity</b></p>	<p>Cefuroxime 1.5g IV at 8 hour intervals until wound closed or covered. (*)</p> <p><b>If contused and dirty trauma</b></p> <p><b>Add</b> Gentamicin 5mg/kg IV. If patient obese- use ideal body weight for dose calculation. Patient specific dose to be calculated using the NHS Lothian intranet gentamicin calculator.</p> <p><b>Plus</b> metronidazole 500mg IV every 8 hours. Switch to oral formulation 400mg every 8 hours once patient transferred to the ward and oral route available. (*)</p> <p>Metronidazole has excellent oral bioavailability.</p> <p><b>(*)Regimen needs to be reviewed daily and if antimicrobial cover is needed for longer than 3-5 days- follow the culture results and amend the regimen accordingly.</b></p>	<p>Teicoplanin 800mg IV loading dose (600mg if ≤60 kg) and then follow the <a href="#">standard protocol</a> until wound closed or covered. (*)</p> <p><b>If contused and dirty trauma</b></p> <p><b>Add</b> Gentamicin 5mg/kg IV. If patient obese- use ideal body weight for dose calculation. Patient specific dose to be calculated using the NHS Lothian intranet gentamicin calculator.</p> <p><b>Plus</b> metronidazole 500mg IV every 8 hours. Switch to oral formulation 400mg every 8 hours once patient transferred to the ward and oral route available. (*)</p> <p>Metronidazole has excellent oral bioavailability.</p> <p><b>(*)Regimen needs to be reviewed daily and if antimicrobial cover is needed for longer than 3-5 days- follow the culture results and amend the regimen accordingly.</b></p>
<p><b>Open surgery for closed fracture where foreign material is implanted</b></p>	<p>Cefuroxime 1.5g IV <b>one dose only</b></p>	<p>Teicoplanin 800mg IV <b>one dose only</b></p> <p>(600mg if ≤60 kg)</p>

<p><b>Hip fracture</b></p> <p><b>If the fracture is involving the site with prosthetic joint replacement in situ- please follow prophylaxis guidelines as for arthroplasty.</b></p>	<p><b>Cefuroxime 1.5g IV one dose only</b></p>	<p><b>Teicoplanin 800mg IV one dose only</b></p> <p>(600mg if ≤60 kg)</p>
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Agreed by NHSL Antimicrobial Management Team in consultation with Clinical Management Team for

Musculoskeletal - Trauma

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DATE:

October 2022

For review:

October 2025