General Principles for prescribing:

- Administer the pre-operative IV prophylaxis dose within the 60 minutes prior to skin incision/intervention.
- If severe blood loss repeat antibiotic dose for: cefuroxime, fluoroquinolons, clindamycin; if co-amoxiclav (all full prophylactic dose) and gentamicin (at half prophylaxis dose). Do not redo metronidazole or teicoplanin.
- To reduce the risk of post-operative drug errors, prescribe antibiotics on the ‘Once Only’ section of the drug kardex and also on the anaesthetic record.
- Seek Microbiology or Infectious Diseases opinion for patients on existing antimicrobial therapy or with complex microbiological problems.
- Follow paediatric monographs for drug reconstitution and administration.

### Antibiotic Prophylaxis for Paediatric Surgery

**Royal Hospital for Children Glasgow - Procedures involving saliva reduction surgery**

- Administer the pre-operative IV prophylaxis dose within the 60 minutes prior to skin incision/intervention.
- Seek Microbiology or Infectious Diseases opinion for patients on existing antimicrobial therapy or with complex microbiological problems.

### Surgery Procedure Antibiotic Pre-operative Dose Intra-operative Doses Post-operative Doses

<table>
<thead>
<tr>
<th>Plastic Surgery</th>
<th>Trauma Soft Tissue Trauma</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procedure</td>
<td>Antibiotic</td>
</tr>
<tr>
<td>Falciform ligament or Causa pion</td>
<td>Cefuroxime 50mg/kg (max 1.5g)</td>
</tr>
<tr>
<td>Penicillin allergy: Clindamycin</td>
<td>5mg/kg (max 300mg)</td>
</tr>
<tr>
<td>Oral surgery (submandibular duct transfer; salivary duct ligation)</td>
<td>Co-amoxiclav 10mg/kg (max 1.25g)</td>
</tr>
<tr>
<td>Penicillin allergy: Clindamycin</td>
<td>5mg/kg (max 300mg)</td>
</tr>
<tr>
<td>Open airway reconstruction surgery (laryngotracheal reconstruction; cricothyroidotomy)</td>
<td>Co-amoxiclav 50mg/kg (max 1.25g)</td>
</tr>
<tr>
<td>Penicillin allergy: Clindamycin</td>
<td>25mg/kg</td>
</tr>
<tr>
<td>Penicillin allergy: Clindamycin</td>
<td>7.5mg/kg (max 500mg)</td>
</tr>
<tr>
<td>Penicillin allergy: Clindamycin</td>
<td>7.5mg/kg (max 500mg)</td>
</tr>
</tbody>
</table>

### Cardiac/Thoracic

- Review November 2018.
- Review November 2018.

### Elective Soft Tissue Surgery

- No prophylaxis unless complex prolonged procedure.

### Cleft lip and Palate Surgery

- Co-amoxiclav 30mg/kg (max 1.2g) | Every 4 hours | 8 hourly for 5 days in primary cleft surgery |
- Penicillin allergy: Clindamycin | 5mg/kg (max 300mg) | Infused over 15 minutes | Not required |

### Burns

- No prophylaxis required.

### Application of Biobrane

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Antibiotic</th>
<th>Pre-operative Dose</th>
<th>Intra-operative Doses</th>
<th>Post-operative Doses</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSF shunt Teicoplanin 10mg/kg (max 400mg)</td>
<td>Infused over 30 minutes</td>
<td>Not required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Penicillin allergy: Clindamycin</td>
<td>5mg/kg (max 1.5g)</td>
<td>Infused over 15 minutes</td>
<td>Not required</td>
<td></td>
</tr>
<tr>
<td>Penicillin allergy: Clindamycin</td>
<td>10mg/kg (max 750mg)</td>
<td>Infused over 20 mins</td>
<td>Not required</td>
<td></td>
</tr>
</tbody>
</table>

### Neurosurgery

- Craniotomy
  - Cefuroxime 50mg/kg (max 1.5g) | Every 4 hours | Not required |

### Trauma Soft Tissue Trauma

- Falciform ligament or Causa pion
  - Cefuroxime 50mg/kg (max 1.5g) | Every 4 hours | Not required |

### Lower Gastrointestinal Surgery

- Pre-proctectomy suspected, antibiotic treatment should be initiated as possible & not delayed until patient gets to theatre.
  - Co-amoxiclav 10mg/kg (max 1.25g) | Every 4 hours | Not required |

### General Surgery

- Upper Gastrointestinal Surgery
  - Co-amoxiclav 10mg/kg (max 1.25g) | Every 4 hours | Not required |

### Lower Gastrointestinal Surgery

- Pre-proctectomy suspected, antibiotic treatment should be initiated as possible & not delayed until patient gets to theatre.
  - Co-amoxiclav 7.5mg/kg (max 500mg) | Infused over 20 mins | Not required |

### Urinology

- Gentamicin 2.5mg/kg, single dose at induction only (Co-amoxiclav 10mg/kg max dose 2g) | Infused over 20 mins | Not required |
- Cefuroxime 7.5mg/kg (max 500mg) | Infused over 20 mins | Not required |
- Metronidazole 10mg/kg (max 400mg) | Infused over 20 mins | Not required |
- Gentamicin 7.5mg/kg (max 500mg) | Infused over 20 mins | Not required |

### Urological

- Consult protocol for primary cleft surgery
- Penicillin allergy: Clindamycin AND Gentamicin
  - 5mg/kg (max 300mg) | Infused over 15 minutes | 8 hourly for 1 week | Not required |

### Plastic Surgery

- Plastic Surgery
  - Falciform ligament or Causa pion
  - Cefuroxime 50mg/kg (max 1.5g) | Every 4 hours | Not required |

### Hand Surgery

- Penicillin allergy: Clindamycin
  - 5mg/kg (max 300mg) | Infused over 15 minutes | Not required |

### Hand and Foot Surgery

- Penicillin allergy: Clindamycin
  - 5mg/kg (max 300mg) | Infused over 15 minutes | Not required |

### Cleft lip and Palate Surgery

- Penicillin allergy: Clindamycin
  - 5mg/kg (max 300mg) | Infused over 15 minutes | Not required |

### Burns

- No prophylaxis required.