**Neonatal management of EOGBSD**

**ALL newborn babies are at risk of infection irrespective of gestation, maternal risk factors or adequacy of IAP**

**Signs of infection:** respiratory distress, temperature instability, unexpected need for resuscitation, apnoeic episodes, lethargy, seizures, poor feeding, abdominal distension, hypotension, metabolic acidosis

### All newborn babies

**Any of the following?**
- Signs of neonatal infection
- Suspected chorioamnionitis
- Maternal temperature ≥ 38°C intrapartum or within 24 hours of birth
- Previous baby with EOGBSD

- **Yes**
  - **Investigate and treat**
    - FBC (with differential)
    - Blood cultures
    - Commence antibiotics within 30 minutes
  - **Lumbar puncture if:**
    - Blood cultures positive or
    - Clinical signs of infection
  - **Other investigations**
    - As indicated

- **No**
  - Routine newborn care
  - **Observe for 24–48 hours**

### Signs of infection? → Investigate and treat

#### Gestation < 37+0 weeks?

- **Yes**
  - **Adequate IAP?**
    - **Yes**
      - Gent regimen 1
    - **No**
      - Gent regimen 2

- **No**
  - FBC and observe for 48 hours

### Antibiotics as per local protocols; if no protocols

- Benzylpenicillin 80 mg/kg IV every 12 hours OR
- Ampicillin/amoxicillin 50 mg/kg IV every 12 hours
AND Gentamicin IV (Gent regimen 1 OR Gent regimen 2)

<table>
<thead>
<tr>
<th>Gestation</th>
<th>Gent regimen 1</th>
<th>Gent regimen 2</th>
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</thead>
<tbody>
<tr>
<td>&lt;30 weeks</td>
<td>2.5 mg/kg 36 hourly</td>
<td>5 mg/kg 48 hourly</td>
</tr>
<tr>
<td>30–34+6 weeks</td>
<td>2.5 mg/kg 24 hourly</td>
<td>4.5 mg/kg 36 hourly</td>
</tr>
<tr>
<td>≥ 35 weeks</td>
<td>2.5 mg/kg 24 hourly</td>
<td>4 mg/kg 24 hourly</td>
</tr>
</tbody>
</table>

### Gent regimen

1. **Adequate intrapartum antibiotics** = Intrapartum antibiotics given more than 2 hours before birth

2. **Discharge** after 24 hours if usual readiness for discharge criteria met and parents can understand and follow instructions (recognise signs of infection, contact help via telephone, transport baby for care if required)

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**Queensland Clinical Guidelines: EOGBSD Flowchart version F16.20-2-V3-R21**

**CS:** caesarean section, **EOGBSD:** early onset Group B Streptococcal disease, **FBC:** full blood count, **GBS:** Group B Streptococcus, **IAP:** intrapartum antibiotic prophylaxis, **IV:** intravenous, **ROM:** rupture of membranes, **T:** temperature, ≥: greater than or equal to

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**Queensland Clinical Guidelines**