# Antimicrobials requiring Therapeutic Drug Monitoring

<table>
<thead>
<tr>
<th>Drug (Approved name)</th>
<th>What infection are you treating?</th>
<th>Date</th>
<th>Time of Level</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vancomycin IV</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start Date</td>
<td>Dose</td>
<td>Freq</td>
<td>Prescriber Signature &amp; Reg No</td>
<td>Stop Date</td>
</tr>
<tr>
<td><strong>Gentamicin IV</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start Date</td>
<td>Dose</td>
<td>Freq</td>
<td>Prescriber Signature &amp; Reg No</td>
<td>Stop Date</td>
</tr>
</tbody>
</table>

If other agents requiring therapeutic drug monitoring are necessary, prescribe in regular antimicrobial prescription section with appropriate monitoring of levels.

<table>
<thead>
<tr>
<th>Timing of 1st level</th>
<th>Target range (s)</th>
<th>Repeat levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Dose at 48hrs</td>
<td>16-24hrs post first/second dose</td>
<td>Twice weekly (e.g. Mon/Thurs or Tues/Fri) providing levels in target range, dose and renal function are stable.</td>
</tr>
<tr>
<td>Trough level at 24hrs</td>
<td>Trough level at 24hrs Post-dose (30mins) level at 24hrs</td>
<td>If doses are adjusted to optimise levels and/or renal function is unstable, more frequent monitoring is required until they meet the former criteria (see 'Antimicrobial Guidelines')</td>
</tr>
<tr>
<td>Trough &lt;1mg/L</td>
<td>Trough &lt;5mg/L</td>
<td></td>
</tr>
</tbody>
</table>

**Use Local guidelines (+/- local dosing calculator) to determine initial dose. Adjust dose and/or monitoring in renal impairment**

**Gentamicin is rarely indicated for more than 3-5 days**

**Do not hold doses awaiting levels unless specifically advised**

**Automatic stop unless rewritten**