

Gentamicin

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Gentamicin

Indication

- Empirical antibiotic with vancomycin for line sepsis (review ongoing need when culture results are available)
- All other indications as per NHS Lothian Antimicrobial guideline

Dosage and Administration

- 2mg/kg

(Please use **dry weight**. This is particularly important in patients with oedema) ****Do NOT use Gentamicin Calculator on the Intranet****

- Please administer via a central venous catheter or a large vein if only peripheral access is available.

Concentration and Strength

- 80mg/2ml or diluted for infusion

Stability

- Please use reconstituted solution as soon as possible.

Reconstitution instructions

- **IV injection - to be administered over 5 minutes** Can be given undiluted (40mg/ml) or diluted in 10-20ml of sodium chloride 0.9% or glucose 5% to aid slow bolus injection.
- **IV infusion - to be infused over 20 minutes** Dilute in 100ml of sodium chloride 0.9% or glucose 5%

Additional Information

- Haemodialysis (HD) removal: Yes
- Haemodiafiltration (HDF) removal: Yes
- Dose should be administered **after** dialysis

Monitoring

Inpatients	Outpatients
<p>Dialysis Days</p> <ul style="list-style-type: none">• Take a level pre-dialysis• Dose to be administered if level is <3mg/l <p>Non-dialysis days</p> <ul style="list-style-type: none">• Please take a level before the expected dosing time• Dose to be administered if level is <2mg/l <p>Peak level after dose administration</p> <ul style="list-style-type: none">• Take a peak level ONE HOUR AFTER the end of dose administration• Target peak is 8 to 12mg/l. Please discuss dose adjustment with Renal pharmacist if target not achieved• No further dose change is required when two therapeutic peak levels are achieved unless clinically indicated	<ul style="list-style-type: none">• Take a level pre-dialysis• Dose to be administered if level is <3mg/l

For **NEW** patients starting on gentamicin, a pre-dialysis level is not required prior to the first dose

Written by: *Dr Ailish Nimmo, Specialist Registrar, Renal Pharmacist*

Reviewed by: *Dr Iain MacIntyre, Consultant Nephrologist*

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