

Medicines Management & Pharmacy Services (MMPS) LTHT Neonatal Unit Administration Guide Vancomycin

Dose:	Corrected gestation	Age	Dose
	<29/40	<10 days	20mg/kg - 18 hourly
	<29/40	≥10 days	15mg/kg - 12 hourly
	≥29/40	<10 days	15mg/kg - 12 hourly
	≥29/40	≥10 days	15mg/kg - 8 hourly

Route of administration:
Products available:

Administer vancomycin 5mg/mL over at least 60 minutes via a central or peripheral line. If using a peripheral vein monitor for adverse reactions at injection site or signs of extravasation.

- 50mL stock bottles are available from pharmacy aseptics as 5mg/mL in sodium chloride 0.9% (if unavailable seek supply from pharmacy or elsewhere within neonatal units)
- Syringes for individual patients are available from pharmacy aseptics as 5mg/mL in sodium chloride 0.9%.
- 500mg dry powder vial

To prepare an infusion:

Note: Preparation requires a DOUBLE dilution

Step	Process	Concentration at end of step
1.	Add XmLs (amount depends on brand-see below) of water for injection to a 500mg vial	50mg/1mL (First dilution)
2.	Draw up 1mL(50mg) of this concentrated solution	
3.	Add 9mL of sodium chloride 0.9% to give a final volume of 10mL and mix thoroughly	5mg/1mL (Second dilution)
4.	Withdraw required dose of this 5mg/mL solution.	

Brand Specific Displacement Values:

Flynn Pharma	Add 9.6mL to 500mg
Wockhardt or Hospira	Add 9.7mL to 500mg
Demo SA	Add 9.8ml to 500mg
Hikma or Sandoz	Add 10ml to 500mg

How to prescribe:

Prescribe using the neonatal vancomycin supplementary drug chart. Refer to paper chart must be prescribed on eMeds:

Protocol tab → Neonates/Neonatal unit folder → Antimicrobials → Neonatal Sepsis→Neonatal Unit - Sepsis on NNU - 2nd line → Neonatal vancomycin Chart →Document the indication and duration on the drug chart.

Compatibilities:

Aciclovir, alprostadil, atracurium, caffeine citrate, calcium gluconate, clarithromycin, fluconazole, hydrocortisone, insulin, magnesium, meropenem, midazolam, milrinone, morphine, parenteral nutrition, ranitidine.

Incompatibilities:

Ambisome, cefotaxime, cefuroxime, ceftazidime, dexamethasone, heparin, phenobarbital.

Notes:

If there is no compatibility information, or the line has drugs known to be incompatible being infused, do not assume compatibility. Use a separate line.

References:

BNFc App (V. 2.1.19) Sept 2019, NHS Injectable Medicines Guide Version 7 10/12/2018, Thames Valley Y-site Chart (Sept 2015)
Hikma. Patient Information Leaflet - Vancomycin 500mg and 1000mg vials Sept 2016 (PL15413/0001) <accessed via mhra.org.uk on 11/12/2017>
Medicine Complete May 2019, Lexicomp Online: Trissel's IV- Check, May 2019

Provenance

Date Produced: July 2015

Reviewed: September 2019

Valid until: September 2021

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