

PAEDIATRIC (1 month – 16 years) INTERMITTENT INFUSION VANCOMYCIN: PRESCRIBING, ADMINISTRATION & MONITORING CHART

DETERMINE DOSE ¹						
Age	Dose	Frequency	Route			
< 1 month- see separate v	ancomycin policy for neo	onates				
1 month to <6 months	12.5mg/kg	8 hourly	Give over at least 60mins using an infusion pump.			
6 months to <1 year	20mg/kg	8 hourly	The rate should be below 10mg/minute. Central administration is preferable but concentrations up			
1 year to 6 years	25mg/kg	8 hourly	to 5mg/ml may be given via a large peripheral vein.			
>6 years to16 years	20mg/kg	8 hourly				
>16 years- refer to adult vancomycin policy						
In renal impairment- Seel	k specialist advice if eGF	R <50mls/min/1.73m ²				
Nursing staff: Check HEPMA to ensure vancomycin hasn't been discontinued. Check vancomycin and creatinine levels are being monitored and recorded above						

Patient Name:	
Date of birth:	
CHI no.:	
Affix patient label	

Aiming for levels 10-20mg/L; 15-20mg/L (severe infection)

Calculating eGFR for child over 1 year:

eGFR = 40 x height (cm)/ Serum creatinine (ml/min/1.73m²) (micromol/L)

Children with low muscle mass, those who have had a bone transplant, or peritoneal dialysis, may need a formal GFR checked by nuclear medicine

1	Dose Prescription				Si	gn and red	cord exa	n Recor ct time giv ails on pre	en	
Drug				Date	Refer to	MEDUS	A for det	ans on pre	eparation	
	VAN	NCOMYC	IN	Month						-
Dose (mg)	Route	Date started	other time						i -
		IV infusion		0800						Continue or amend on
				1200						nue
	Prescriber's signature, PRINTED name and STATUS See Box 2 Stopped Stopped		1400						or am	
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			Date:	2000						0.
	Initials:									Sepa
Additional instructions ***Max infusion rate = 10 mg/minute***										late po
Creati	nine (mic	romol/L) RE(CORD DAILY							separate box it required
Date & time of blood sample taken										rea
Vancomycin level (mg/L)										1
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2 Dose Prescription					Administration Record Sign and record exact time given Refer to MEDUSA for details on prepar					
Drug				Date						
	VAN	COMYC	IN	Month						
Dose (mg	g)	Route	Date started	other time						_
		IV infusion		0800						Continue
				1200						nue or
	Prescriber's signature, PRINTED See Box 3 ☐			1400						ram
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			Date:	2000						on a
	Initials:			2200						separate
Additional instructions other time ***Max infusion rate = 10 mg/minute***									rate box	
Creatini	ine (micr	omol/L) REG	ORD DAILY							cif required
Date & time of blood sample taken									red	
Vancomycin level (mg/L)										
	_	•	ES □ prescri eed for vanco						•	

3	Dose Prescription				Si	gn and red	ord exac	Necor t time giv	en	
Drug				Date						
	VA	NCOMY	CIN	Month						
Dose (mg)	Route	Date started	other time						
		IV infusion		0800						Continue or amend on
		infusion		1200						nue c
	Prescriber's signature, PRINTED see Box 4 name and STATUS			1400						or am
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			Date:	2000						on a
			Initials:	2200						sepa
Additio	onal instruc	tions		other time						rate
Max	infusion ra	ate = 10mg/m	inute							box
Creatinine (micromol/L) RECORD DAILY										a separate box if required
Date & time of blood sample taken									red	
Vanco	Vancomycin level (mg/L)									
	Is a dose change required? YES prescribe in a prescription box 4 Assess DAILY: the ongoing need for vancomycin; signs of toxicity									

Monitoring, interpretation and review

- Blood of vancomycin levels should be taken peripherally and not from an existing indwelling venous access device to reduce the risk of falsely elevated results.
- Take 1st trough level immediately before the 4th dose and administer dose without waiting for level results. Monitor renal function daily. If renal function is impaired e.g. a change in creatinine of more than 15-20%, the trough level should be known before the next dose is administered.
- If levels are within therapeutic range, repeat every 3 days. If levels are subtherapeutic or above therapeutic range, adjust the dose as per table opposite and repeat the trough level and U&Es 24 hours after ANY dose adjustment.
- Approximately time to steady state: 1-2 days.
- Note: vancomycin may increase the risk of aminoglycoside induced ototoxicityuse caution if co-prescribing with other agents that may cause ototoxicity e.g. furosemide, gentamicin.
 - Neonatal Pharmacist Group January 2016 Recommendation on Empirical dosing of intermittent intravenous vancomycin Author: Nicola Cameron (Senior Clinical Pharmacist Womens & Children and SH), Evelyn Yoong (Antimicrobial Pharmacist)
 Approved by: AMT/ ADTC 02/06/2025 Next review: 02/06/2027

4	Dose Prescription					Administration Record Sign and record exact time given Refer to MEDUSA for details on prepar				
Drug				Date						
	VAN	NCOMY	CIN	Month						
Dose (mg)	Route	Date started	other time						_
		IV		0800						Continue
		infusion		1200						ne o
	er's signature, nd STATUS	PRINTED	New Chart 🗆	1400						1 -
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Additio	onal instruc	tions		other time						irate
Max	infusion ra	te = 10mg/mi	inute							box 6
Creati	nine (mic	romol/L) R	ECORD DAILY							if required
Date & time of blood sample taken										PE.
Vanco	mycin leve	l (mg/L)								
	_	•	YES prescrit				CHART			

If in doubt, take another sample before modifying the dosage regimen and/ or contact Pharmacy for advice

Level (mg/L)	Suggested dose change
< 10	Confirm all doses given. If so change dosage interval from 8 hours to every 6 hours. Take further level 24 hours after ANY dosage adjustment
10 – 15	If patient is responding, maintain present dosage regimen For severe infection, change interval from 8 hours to every 6 hours
15 - 20	Maintain current dosage regimen. Repeat level in 3 days
>20	Confirm trough sample taken appropriately Stop, reanalyse every 12 hours until level is <20mg/L and seek advice

If the measured concentration is unexpectedly HIGH or LOW, consider the following: Were dose and sample time recorded accurately? Was the correct dose administered?
Was sample taken from the line used to administer the drug?
Was sample taken during drug administration? Has renal function declined or improved?

Does the patient have oedema or ascities?