ADULT INTERMITTENT (PULSED) INFUSION VANCOMYCIN: PRESCRIBING, ADMINISTRATION & MONITORING CHART



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

Age:	Sex: M/F	Source of initial dosage regimen: Online calculator (preferred method)	
Weight:	Height:	Manual calculation	
Creatinine:	On: /	Loading dose only at present, creatinine awaited	

PROMPT ADMINISTRATION within 1 hour of recognition of sepsis reduces mortality

Step 1: Calculate & prescribe the loading and maintenance dose of vancomycin

- If creatinine is known use the online vancomycin calculator.
- If creatinine is not known calculate a loading dose based on actual body weight (see table). Calculate maintenance dose once creatinine is available.
- Prescribe the loading dose and maintenance dose and frequency in the prescribing sections of this chart (below).
- Prescribe vancomycin 'as per chart' on the medication chart (kardex).
- AVOID specifying dose or administration time on the kardex.

Step 2: Monitor vancomycin concentration and reassess the dose

- See overleaf for information on checking and interpreting vancomycin concentration results.
- Record the exact times of all measured concentrations below, reassess the dose and re-prescribe as appropriate.
- Monitor creatinine daily. Seek advice if renal function is unstable (e.g. a change in creatinine of >15-20 %).

Step 3: Assess daily: the ongoing need for vancomycin; toxicity

Signs of renal toxicity can include:
↓ urine output / oliguria or ↑ creatinine.

- Consider adjusting the dosage regimen or using an alternative agent if renal function changes.
- Discuss IV to oral switch with micro / ID physician.

Actual body weight	Vancomycin loading dose
< 40 kg	750 mg in 250 mL NaCl 0.9% over 1.5 hours
40-59 kg	1000 mg in 250 mL NaCl 0.9% over 2 hours
60-90 kg	1500 mg in 500 mL NaCl 0.9% over 3 hours
>90 kg	2000 mg in 500 mL NaCl 0.9% over 4 hours

1 Van	comycin	Loading Dos	e Prescription	Administ	tration Record	
Ensure vancomycin is prescribed 'as per chart' on the medication kardex				Ensure ad	ministration record is a	lso completed in the kardex
Date to be given	Time to be given	Vancomycin Dose (mg)	Prescriber's signature PRINTED name and STATUS	Date given	*Infuse at no greater than 500 mg/hr* Time started	Given by

Maintenance Dose Prescription (Initial prescribing box)			(sign fo		n Record	time(s))	
Drug			Date				
VANCOMYCIN		Month					
Dose (mg)	Route	Date started	other time				
	IV infusion		0800				
			1200				
Prescriber's signature, PRINTED Secondary and STATUS		See Box 3	1400				
name and sixte	,5	Stopped L	1800				
		Initials:	2000				
		miciais.	2200				
Additional in	structions	•	other time				
Max infusion	on rate = 500 mg	g/hr					
С	reatinine (micr	omol/L) RECOR	D DAILY				
	Date & tir	ne of blood samp	le taken				
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Dose (mg)	Route	Date started	other time					
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Steps 2 – 3: Monitoring, interpreting and review

Checking the patient's vancomycin concentration

- Take a vancomycin trough (pre-dose) sample within 48 hours of starting therapy. Thereafter, sample at least every 2-3 days or daily if renal function unstable. Monitor creatinine daily.
- Record the exact time of all vancomycin samples on the prescribing box AND on the sample request form.

Interpreting vancomycin results and re-prescribing

- Always check that the dosing and sampling time history are correct before making any adjustments.
- Record the measured concentration, refer to the dose adjustment table and reassess the dose amount / dosing interval as indicated.
- Document the vancomycin concentration on the chart and the action taken in the medical notes. Prescribe the new dosage regimen if a change is required.
- Contact pharmacy for further advice as necessary (e.g. changing renal function, unexpected vancomycin result).

Vancomycin trough concentration	Suggested dose change
<10 mg/L	Increase the dose by 50% and consider reducing the dosage interval or seek advice
	If the patient is responding, maintain the present dosage regimen.
10 – 15 mg/L	If the patient is seriously ill, consider increasing the dose amount or reducing the dosage interval to achieve a trough level of 15 – 20 mg/L.
15 – 20 mg/L	Maintain the present dosage regimen
>20 mg/L	Stop until <20 mg/L then seek advice

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

Please order from Pharmacy

If the measured concentration is unexpectedly HIGH or LOW

- Were dose and sample times recorded accurately?
- Was the correct dose administered?
- Was the sample taken from the line used to administer the drug?
- Was the sample taken during drug administration?
 - Has renal function declined or improved?
 - Does the patient have oedema or ascites?
- Did the patient receive the full intended dose?

Approved by: VERSION 1 AMT
Date: June 2014
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