ADULT VANCOMYCIN INTERMITTENT INFUSION: PRESCRIBING
ADMINISTRATION & MONITORING CHART

Patient Name:	Actual body weight	Vancomycin loading dose
	< 40 kg	750 mg in 250 mL NaCl 0.9% over 1.5 hours
Date of birth:	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
CHI no.:	>90 kg	2000 mg in 500 mL NaCl 0.9% over 4 hours
Affix patient label	See back page for var	ncomycin prescribing/monitoring guidance

STEP 1 Prescribe vancomycin 'as charted' on the kardex. DO NOT specify a dose/dose times.

STEP 2 Calculate the initial vancomycin dose and record the details below;

Sex: M / F	Age:	Weight:	Height:	Creatinine (Cr): on / /
Initial dose sourc	e: Online calculator	(preferred) 📮 Manual	calculation (see Handbo	ook) 📮 Cr awaited, loading dose only (see above) 🗖
Initial dose* ca	alculated as:	mg <u>as a on</u> d	e-off loading dose the	en mg every hours

*this is not a prescription and may change. Doses must be prescribed in the prescribing boxes below/overleaf

STEP 3 Prescribe & record administration of the **ONE-OFF LOADING DOSE** in Box 1 below;

BOX 1 Va	ncomyci	n Loading	Dose Prescription	Administration Record			
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	
						Sig 1: Sig 2:	

PROMPT ADMINISTRATION within 1 hour of recognising sepsis reduces mortality. Inform nursing staff that the loading dose is due and prescribe the initial maintenance dose below as soon as the patient's creatinine result is available.

STEP 4 Prescribe & record administration of the INITIAL MAINTENANCE DOSE in Box 2 below;

BOX 2	Maintenance Dose Prescription				Administration Record ***Infuse at rate no greater than 500 mg/hr***						
Drug: VANCOMYCIN			SPECIFY dose time(s)	Date:		Date:	_	Date:			
Dose (mg)	Dose interval	Route IV infusion	Date	Enter time between 00:00 – 06:00 below: : Enter time between	Exact time: Sig 1:	Sig 2:	Exact time Sig 1:	Sig 2:	Exact time: Sig 1:	Sig 2:	STEP 7 co
Prescriber (Pri	Prescriber (Print and sign) See box 3 Stopped* * * Also discontinue on kardex Date:		06:01 – 12:00 below:	Exact time: Sig 1:	Sig 2:	Exact time Sig 1:	Sig 2:	Exact time: Sig 1:	Sig 2:	continue or	
Initials: Target vancomycin concentration: Standard: 10-20 mg/L Standard: 10-20 mg/L			12:01 – 18:00 below:	Exact time: Sig 1:	Sig 2:	Exact time Sig 1:	2: Sig 2:	Exact time: Sig 1:	Sig 2:	amend	
Deep-seated/severe infection: 15-20 mg/L Comments			Enter time between 18:01 – 23:59 below:	Exact time: Sig 1:	Sig 2:	Exact time Sig 1:	e: Sig 2:	Exact time: Sig 1:	Sig 2:	using box 3	
STEP 5 Rec	ord CRE	ATININE	(µmol/L) her	e DAILY 🔶							
STEP 6 Re	cord det	ails of		Date sample TAKEN							
VANCOMYCIN MONITORING**			Time sample TAKEN							=÷	
here **Sample trough (pre-dose) between 24-48 HOURS OF COMMENCING THERAPY then every 2-3 days (OR sample daily if unstable renal function)		Vancomycin result (mg/L)							required		
		Action/ Comments (please initial)							→ →		

ASSESS DAILY: for any signs of toxicity (e.g. \checkmark urine output or \uparrow creatinine) AND the ongoing need for vancomycin Approved by: NHSGGC Antimicrobial Utilisation Committee, AUGUST 2017. Date of review: AUGUST 2020 PECOS ORDER CODE: GGC0206

Patient Name:

See the back page for guidance on prescribing/monitoring vancomycin & for guidance on how to use this chart.

BOX 3	Mai	ntenan	ce Dose Pres	Administration Record ***Infuse at rate no greater than 500 mg/hr***							
Drug:	Drug: VANCOMYCIN		SPECIFY dose time(s)	Date:		Date:			Date:		
Dose (mg)	Dose interval	Route IV infusion	Date	Enter time between 00:00 – 06:00 below:	Exact time Sig 1:	Sig 2:	Exact tin Sig 1:	sig 2:	Exact time Sig 1:	e: Sig 2:	6
Prescriber (Print and sign) See box 4 Stopped* *Also discontinue on kardex Date:			Enter time between 06:01 – 12:00 below: : Enter time between	Exact time Sig 1: Exact time	Sig 2:	Exact tim Sig 1: Exact tim	Sig 2:	Exact time Sig 1:	Sig 2:	continue or a	
Initials: Target vancomycin concentration: Standard: 10-20 mg/L □			12:01 – 18:00 below:	Sig 1:	Sig 2:	Sig 1:	Sig 2:	Sig 1:	Sig 2:	mend u	
Comments	Deep-seated/severe infection: 15-20 mg/L Comments			Enter time between 18:01 – 23:59 below:	Exact time Sig 1:	2: Sig 2:	Exact tin Sig 1:	ne: Sig 2:	Exact time Sig 1:	e: Sig 2:	or amend using box 4
Rec	ord CREA	TININE	(µmol/L) heı	e DAILY 🗲							
		VA	rd details of NCOMYCIN	Date sample TAKEN Time sample							BELOW if required
MONITORING** here →			TAKEN Vancomycin result (mg/L)							quired 🚽	
**Sample trough (pre-dose) every 2-3 days (OR sample daily if unstable renal function)				Action/ Comments (please initial)							

BOX 4	Mair	ntena	nce Dose Pres	scription	Administration Record ***Infuse at rate no greater than 500 mg/hr***						
Drug:	Drug: VANCOMYCIN			SPECIFY dose time(s)	Date:		Date:		Date:		
Dose (mg)	Dose interval	Route IV infusio		Enter time between 00:00 – 06:00 below: •	Exact time: Sig 1:	Sig 2:	Exact tim Sig 1:	e: Sig 2:	Exact time: Sig 1:	Sig 2:	con
Prescriber (Print and sign) See box 5 Stopped* * *Also discontinue on kardex Date:			Enter time between 06:01 – 12:00 below:	Exact time: Sig 1:	Sig 2:	Exact tim Sig 1:	Sig 2:	Exact time: Sig 1:	Sig 2:	continue or a	
Initials: Target vancomycin concentration: Standard: 10-20 mg/L I			Enter time between 12:01 – 18:00 below: :	Exact time: Sig 1:	Sig 2:	Exact tim Sig 1:	e: Sig 2:	Exact time: Sig 1:	Sig 2:	or amend usi	
Comments	Deep-seated/severe infection: 15-20 mg/L Comments				Exact time: Sig 1:	Sig 2:	Exact tim Sig 1:	e: Sig 2:	Exact time: Sig 1:	Sig 2:	using box 5
Rec	ord CREA	TININ	E (µmol/L) her	e DAILY 🗲							
		١	ord details of ANCOMYCIN	Date sample TAKEN Time sample							OPPOSITE if r
		МС	DNITORING** here →	TAKEN Vancomycin result (mg/L)							if required o
**Sample trough (pre-dose) every 2-3 days (OR sample daily if unstable renal function)				Action/ Comments (please initial)							•

Patient Name:

CHI Number:

See the back page for guidance on prescribing/monitoring vancomycin & for guidance on how to use this chart.

BOX 5	Maii	Maintenance Dose Prescription					Administration Record ***Infuse at rate no greater than 500 mg/hr***						
Drug: VANCOMYCIN		SPECIFY dose time(s)	Date:		Date:			Date:					
Dose (mg)	Dose interval	Route IV infusion	Date	Enter time between 00:00 – 06:00 below:	Exact time Sig 1:	Sig 2:	Exact tim Sig 1:	Sig 2:	Exact time Sig 1:	e: Sig 2:	6		
Prescriber (Print and sign) *Also discontinue on kardex Date:			Enter time between 06:01 – 12:00 below: Enter time between	Exact time Sig 1: Exact time	Sig 2:	Exact tim Sig 1:	Sig 2:	Exact time Sig 1:	Sig 2:	continue or a			
Initials: Target vancomycin concentration: Standard: 10-20 mg/L □			12:01 – 18:00 below:	Sig 1:	Sig 2:	Sig 1:	Sig 2:	Sig 1:	Sig 2:	mend u			
Comments	Deep-seated/severe infection: 15-20 mg/L			Enter time between 18:01 – 23:59 below:	Exact time Sig 1:	:: Sig 2:	Exact tim Sig 1:	ne: Sig 2:	Exact time Sig 1:	e: Sig 2:	or amend using box 6		
Rec	ord CREA	TININE	(µmol/L) heı	e DAILY 🗲									
	Record details of VANCOMYCIN										BELOW if required		
MONITORING** here >			TAKEN Vancomycin result (mg/L)							uired 🗲			
**Sample trough (pre-dose) every 2-3 days (OR sample daily if unstable renal function)				Action/ Comments (please initial)									

BOX 6	Mair	ntenanc	e Dose Pre	scription	Administration Record ***Infuse at rate no greater than 500 mg/hr***						
Drug:	Drug: VANCOMYCIN			SPECIFY dose time(s)	Date:		Date:		Date:		
Dose (mg)	Dose interval	Route IV infusion	Date	Enter time between 00:00 – 06:00 below: •	Exact time: Sig 1:	Sig 2:	Exact tim Sig 1:	e: Sig 2:	Exact time: Sig 1:	Sig 2:	8
Prescriber (Print and sign) See new chart Stopped* *Also discontinue on kardex Date:			Enter time between 06:01 – 12:00 below: • Enter time between	Exact time: Sig 1: Exact time:	Sig 2:	Exact tim Sig 1: Exact tim	Sig 2:	Exact time: Sig 1: Exact time:	Sig 2:	continue or	
Initials: Target vancomycin concentration: Standard: 10-20 mg/L □			12:01 – 18:00 below:	Sig 1:	Sig 2:	Sig 1:	Sig 2:	Sig 1:	Sig 2:	amend using	
Comments	Deep-seated/severe infection: 15-20 mg/L Comments				Exact time: Sig 1:	Sig 2:	Exact tim Sig 1:	e: Sig 2:	Exact time: Sig 1:	Sig 2:	
Rec	ord CREA	TININE (µmol/L) heı	e DAILY 🗲							
			d details of NCOMYCIN	Date sample TAKEN							ART
			ITORING**	Time sample TAKEN							a NEW CHART if required
			here 🗲	Vancomycin result (mg/L)							uired
** Sample trough (pre-dose) every 2-3 days (OR sample daily if unstable renal function)			Action/ Comments (please initial)								

Guidance on how to use this chart

For PRESCRIBERS

- **STEP 1** Prescribe "as charted" on the kardex. **DO NOT** add a dose/administration time; this causes confusion as these may vary.
- STEP 2 Calculate the initial vancomycin dose (see Page 1 for options) and record the details of the dose calculation on Page 1.
 STEP 3 Prescribe the loading dose in box 1 (inform nursing staff the dose is due to ensure prompt administration). To avoid delayed maintenance doses it is important to also complete step 4 at this point (unless a creatinine result is awaited).
- STEP 4 Prescribe the initial maintenance dose in box 2 of the chart (see the online calculator/Handbook for when this is due).
 Avoid prescribing doses for midnight as this can lead to confusion over administration dates. Refer to the Therapeutics
 - Handbook for how to avoid dosing between midnight and 6am. Prescribe in chronological order i.e. 2 AM before 2 PM.
 - Endorse kardex code '9' in the relevant administration box on the chart and the kardex if a dose has to be withheld.
- **STEP 5** Check creatinine daily. Record the results on the chart to ensure any changes impacting on dosing are recognised easily.
- Review therapy & seek advice if renal function is unstable (e.g. Cr change of >15-20 %).
- **STEP 6** Initiate vancomycin monitoring (see below) and record the results on the chart (including the EXACT sample time).
- **STEP 7** Re-prescribe the maintenance dose every 3 days (or sooner if the dose or dose times change).
 - For a new maintenance prescription: discontinue the current maintenance prescription box by ticking 'see box x' (adding a signature and date) and scoring through. There is no need to alter the kardex, which should state "as charted".
 - To stop therapy on the chart: tick the 'stopped' box (adding a signature and date) and score through all pages of the chart with the word 'STOP'. Remember to discontinue vancomycin on the prescription chart **AND** on the kardex.

For NURSING STAFF

- Before administering CHECK the kardex to ensure vancomycin hasn't been discontinued there. Check that creatinine & vancomycin levels are being monitored (these are recorded underneath the administration record; discuss with the prescriber promptly if you are unsure if this monitoring is being done).
- Record the date and exact time of administration on BOTH the chart and the kardex with two nurse's signatures.
- Doses due after a vancomycin sample has been taken should usually be given. DO NOT wait for the vancomycin result before dosing, unless advised to by medical staff or if renal function is deteriorating (check with a prescriber/pharmacist if unsure).

Guidance on monitoring intermittent infusion vancomycin therapy

Checking the patient's vancomycin concentration

- Take the initial vancomycin trough (pre-dose) sample between 24- 48 hours of commencing therapy. Thereafter, sample every 2-3 days; sample daily if renal function is unstable. Monitor creatinine daily and record the result on this chart. Seek advice from pharmacy if creatinine is unstable (e.g. a change of > 15-20%).
- Record the EXACT TIME of all vancomycin samples in the monitoring section of the relevant prescribing box.

Interpreting vancomycin results and re-prescribing

- Always check for errors and that the dosing & sampling time histories are correct before making any adjustments (see below[#]).
- Refer to the dose adjustment table below and contact pharmacy for further advice as necessary (e.g. changing renal function).
 - Document the vancomycin concentration on this chart with the action taken. Prescribe the new dosage regimen if necessary.
- [#]If the measured concentration is unexpectedly HIGH or LOW
- Was the sample too early in therapy (pre-steady state)?
 Was the sample times recorded accurately?
 Was the sample taken from the line used to administer the drug?
 Was the sample taken from the line used to administer the drug?
 Was the sample taken during drug administration?
 Was the sample taken during drug administration?
 Does the patient have oedema or ascites or an extreme body weight?
 Vancomycin trough conc.
 Suggested dose change *contact pharmacy for advice if daily doses > 4 grams are required
 (advice.if.daily doses > 4 grams are required
 (block

<10 mg/L	the dosage interval. Seek advice if you are unsure or if the current dose is > 2500 mg daily.*
10-15 mg/L	If the patient is responding, maintain the current dose regimen. If the patient is seriously ill, consider \uparrow the dose amount or \checkmark 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	Withhold and seek advice from pharmacy BEFORE the next dose is due.

Guidance on how to manage UNINTENDED delays in intermittent vancomycin dosing

NOTE: this guidance DOES NOT apply where the dose has been DELIBERATELY withheld. Contact pharmacy if necessary.

If a patient has stable renal function (if you are unsure about this contact a prescriber/pharmacy) & a vancomycin dose has been delayed UNINTENTIONALLY (e.g. lost intravenous access) please refer to the tables below for guidance on how to proceed.

Prescribed dose interval	Dose delay	Action	Prescribed dose interval	Dose delay	Action
12 hourly	≤6 hours	Give delayed dose immediately and record the date and exact time of administration on the	12 hourly	> 6 hours	Give the delayed dose as soon as possible and record the date and exact time of
24 hourly	≤ 12 hours	chart and kardex with TWO nurse's signatures. Give the next vancomycin	24 hourly	> 12 hours	administration on the chart and kardex with TWO nurse's signatures.
48 hourly	≤ 24 hours	dose at the ORIGINALLY PRESCRIBED TIME.	48 hourly	> 24 hours	Seek advice from pharmacy for further dosing.