

Allergies: _____

Vancomycin IV Order Set

M = MAR
OE = ORDER ENTRY
K = KARDEX
N = NOTIFIED
ACTION

Please Note Preselected Orders Are MANDATORY

Indication for Vancomycin Therapy (see indications in Table 3): _____

Weight: _____ kg Height: _____ cm Creatinine: _____ µmol

Exclusion

- ☒ Do not use Vancomycin if C+S analysis demonstrates effectiveness of beta-lactam antibiotics and in absence of clinically significant beta-lactam allergy or sensitivity to Vancomycin

Consults

- ☒ Pharmacist to monitor and make recommendations on subsequent doses as necessary according to weight/renal function/trough levels unless otherwise specified by physician.

Vancomycin Therapy

****Consider giving loading dose in patients with serious MRSA infections and in seriously ill patients (hemodynamic instability or MRSA bacteremia, meningitis, infective endocarditis, pneumonia) ****

☐ Vancomycin Loading dose: _____ mg IV STAT x 1 (max 2,500 mg dose) **OR** ☐ Do Not Load

THEN

☐ Vancomycin Maintenance Dose: _____ mg IV (max 2,000 mg per dose)

**Table 1: Vancomycin Loading Dose and Maintenance Dose Chart
(based on actual body weight)**

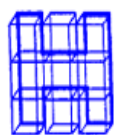
Actual Body Weight (kg)	Loading Dose (mg)**		Maintenance Dose (mg)
Kg	Target trough 10 – 15 mg/L (20 mg/kg)	Target trough 15 – 20 mg/L (25 mg/kg)	(15 mg/kg)
40 – 50	1,000	1,250	750
51 – 60	1,250	1,500	1,000
61 – 70	1,250	1,750	1,000
71 – 80	1,500	2,000	1,250
81 – 90	1,750	2,250	1,250
91 – 110	2,000	2,500	1,500
111 – 120	2,500	2,500	1,750
Greater than 120	2,500	2,500	2,000

****Consider loading dose in patients with serious MRSA infections**

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Vancomycin Dosing Frequency

☐ q8h ☐ q12h ☐ q24h ☐ other: q _____ h ☐ Pharmacist to determine frequency

Table 2: Vancomycin Dosing Frequency Chart (in hours) (based on age and serum creatinine)

LOW-TARGET 10 – 15mg/L Initial Dosing Interval (hours)								HIGH-TARGET 15 – 20mg/L Initial Dosing Interval (hours)							
SCr (µmol/L)	Age Group (years)							SCr (µmol/L)	Age Group (years)						
	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89		20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
40 – 60	8	8	12	12	12	18	24	40 – 60	8	8	8	8	8 - 12*	12	12
61 – 80	8	12	12	12	18	18	24	61 – 80	8	8	8 - 12*	12	12	12	12-18*
81 – 100	12	12	12	18	18	18	24	81 – 100	12	12	12	12	12-18*	18	18
101 – 120	12	12	18	18	18	24	24	101 – 20	12	12	12-18*	18	18	18	18
121 – 140	12	18	18	18	24			121 – 140	12	18	18	18	18	18 - 24*	
141 – 160	18	24	24	24				141 – 160	18	18	18	18 - 24*	24		
161 – 180	24	24						161 – 180	18 - 24*	24	24	24			
181 – 200	24														

*If more aggressive therapy is desired, select a more frequent dosing interval

Shaded boxes: patients with unstable and/or reduced renal function, nomogram may not be as predictive*

Lab Investigations

☒ Creatinine baseline and every Monday, Wednesday and Friday while on Vancomycin unless otherwise specified

Consider obtaining Pre-Vancomycin Trough blood level in the following situations:

- Anticipated therapy greater than 3 days
- Serious infections
- Deteriorating and/or unstable renal function
- On concomitant nephrotoxic agents
- Patients with rapid Vancomycin clearance (cystic fibrosis, large burns)
- Patients receiving more than 4 g of Vancomycin per day
- Morbidly obese patients

☐ Pre-Vancomycin Trough blood level before 4th dose or before _____ dose (within 48 hours)

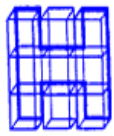
- ☒ Pre-Vancomycin Trough blood levels are to be drawn 30 minutes or less before dose is due
- ☒ The sample must be drawn peripherally and NOT through a central line
- ☒ Time of Vancomycin dose and time of Trough level recorded on Medication Administration Record
- ☒ Repeat Pre-Vancomycin blood level weekly or as requested by physician or pharmacist

Indicate Target Trough Vancomycin Level: ☐ 10 – 15 mg/L ☐ 15 – 20 mg/L

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Lab Investigations Continued...

- ☒ If Trough level is within target range, continue with current dose regimen and physician or pharmacist to reassess next trough date if needed
- ☒ If Trough level is not within target range, physician or pharmacist to reassess dose and regimen

Table 3: Suggested Target Pre-Vancomycin Trough Level Based on Indication

Target Pre-Vancomycin Level 10 – 15 mg/L for:	Target Pre-Vancomycin Level 15 – 20 mg/L for:
<input checked="" type="checkbox"/> Skin and soft tissue infection not due to MRSA <input checked="" type="checkbox"/> Urinary tract infection (catheter associated; rule out bacteremia)	<input checked="" type="checkbox"/> Catheter-associated bacteremia <input checked="" type="checkbox"/> Central nervous system infection <input checked="" type="checkbox"/> Deep-seated or sequestered infection (ex. abscess) <input checked="" type="checkbox"/> Endocarditis <input checked="" type="checkbox"/> Osteomyelitis <input checked="" type="checkbox"/> MRSA bacteremia, pneumonia or skin and soft tissue infection <input checked="" type="checkbox"/> MSSA bacteremia (penicillin allergic patient)

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