

Serum creatinine (sCr):

Vancomycin Pharmacist Standard Orders Patient Specific Monitoring (for Adult & Non-Dialysis Patients)

These orders are to be used as a guideline and do not replace sound clinical judgement and professional practice standards. Patient allergy and contraindications must be considered when completing these orders.

Automatically activated (If not in agreement with an order cross out and initial). \Box Requires a check($\sqrt{}$) for activation

 Allergies:
 Unknown
 No
 Yes (describe)_____

 Height (cm):
 ______Weight (kg):_____

Age (years):

_u/moL
Stable Unstable
Fill out appropriate spaces

Step 1: Record Vancomycin Levels with date and time collected:

 Vancomycin Level #1: _____ mg/L
 _____/___ at _____

 Vancomycin Level #2: _____ mg/L
 _____/____ at _____

Step 2: Use Excel Spreadsheet/App to determine patient-specific PK parameters:

Calculated ke	
Calculated half-life	
Calculated CrCl	
Calculated Vd	

Step 3: Select appropriate Vancomycin maintenance dose ($AUC_{24} = 500$) based on Excel spreadsheet/App

Dose: _____mg IV every _____ hours

Step 4: Test your recommended dose and record expected Peak and Trough for monitoring purposes using Excel spreadsheet/App

Expected Peak: _____ mg/L (less than 40 mg/L)

Expected Trough: _____ mg/L (range 10 to 25 mg/L)

Trough LOWER than expected	Trough HIGHER than expected		
 Check if a dose was missed or an incorrect dose given Check timing of levels and dose (trough done too late/beyond dosing interval) Check renal function – see if it improved (improved clearance) Determine if Vd increased (accumulation of fluid, critical illness, pregnancy) Patient characteristics (young, healthy individuals metabolize faster) 	 Check if a dose was given in error or an increased dose given Check timing of levels relative to dose given (i.e. was the level done while a dose was running, was the level too close to the dose given) Check renal function – did it decline (reduced clearance) Determine if Vd decreased (fluid shifts, volume losses, shifts in protein binding, amputation present etc.) 		
Recommended Dose:	hours		
Vancomycinmg IV every			
Note: Please round vancomycin dose to the nearest 250	mg increment		
PHARMACIST'S SIGNATURE: PRINTED NA	ME: Date: Time:		
Order Transcribed Date: Time: Init:	FAX TO PHARMACY Date: Time: Init:		

Vancomycin Pharmacist Standard Orders CLI.6010.SG.001.FORM.02



Vancomycin Pharmacist Standard Orders Population Based Estimation (for Adult & Non-Dialysis Patients)

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Automatically activated (If not in agreement with an order cross out and initial). □ Requires a check(√) for activation
 Allergies: □ Unknown □ No □ Yes (describe)______
Height (cm): _____Weight (kg): _____Age (years):_____
Serum creatinine (sCr): _____u/moL □ Stable □ Unstable
 Fill out appropriate spaces

Note: If vancomycin levels were <u>inappropriately collected or missing and therefore a maintenance dose and renal function</u> <u>cannot be determined</u>, use the following table to determine a maintenance dose (based on population estimates)

STEP 1: Estimate renal function using Cockcroft and Gault equation

CrCl (mL/min) = $\frac{(140-Age)*80}{sCr(\mu mol/L)}$ X 0.85 if female

STEP 2: Select maintenance dose based on CrCl calculated above and round to the nearest 250mg increment

CrCl (mL/min/72kg)	Total Daily Dose (based on	# Divided Doses per day	
_	dosing body weight)		
120-140	35mg/kg/day	2 or 3 (Q8H or Q12H)	
90-119	30-35mg/kg/day	2 or 3 (Q8H or Q12H)	
60-89	25mg/kg/day	1 or 2 (Q12H or Q24H)	
40-59	20mg/kg/day	1 or 2 (Q12H or Q24H)	
20-39	10-15mg/kg/day	1 or 2 (Q12H or Q24H)	
10-19	750mg Q48H (40-60kg)	1 (Q24H)	
	8mg/kg/day (61-120kg)		
Dosing weight	_kg xmg/kg/day	(see table above)	
	mg Divided into	_ doses/day	
	-	_ doses/day	
Total Daily Dose	-		
Total Daily Dose ecommended Dose Vancomycin	2:	hours	
Total Daily Dose ecommended Dose Vancomycin Note: Please round vanc	e:mg IV every	hours	Time:
Total Daily Dose ecommended Dose Vancomycin Note: Please round vanc MACIST'S SIGNATURE: _	mg IV every comycin dose to the nearest 250 m	hours	Date: Time: _ FAX TO PHARMACY
Total Daily Dose ecommended Dose Vancomycin Note: Please round vanc	e: mg IV every comycin dose to the nearest 250 m PRINTED NAM	hours	

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