

Vancomycin dosing protocol for goal trough 10-15

Caution for possible nephrotoxicity induced by concomitant nephrotoxic agents (amphotericin, NSAIDs, aminoglycosides, furosemide, ACE inhibitors, contrast agents)

TO BE COMPLETED IN FULL BY PRESCRIBER

- Initial dosing and schedule determination: the dose is based upon the patient's creatinine clearance (ClCr) and actual body weight.

To calculate the ClCr, use ideal body weight .

The following equations are to be used:

$$\text{IBW (male)} = 50\text{kg} + 2.3\text{kg/inch for each inch over 5 ft}$$

$$\text{IBW (female)} = 45.5\text{kg} + 2.3\text{kg/inch of each inch over 5 ft}$$

If actual weight is less than ideal body weight, use actual weight to calculate Clcr

$$\text{ClCr} = (140 - \text{age}) \times \text{ideal body weight (kg)} \times (0.85 \text{ if pt is female}) / 72 \text{ Serum Creatinine}$$

A minimum serum creatinine value of 0.8mg/dL should be used for patient < 60 years old

A minimum serum creatinine value of 1mg/dL should be used for patients > 60 years old

Actual weight (kg): _____ Ideal Weight (kg) _____ Clcr (ml/min) = _____

- Give a loading of 20 mg/kg based on actual body Wt.

(Max dose = 3000 mg, round to nearest 250mg)

Vancomycin (mg): _____

- Determine subsequent dosing using nomogram below

Vancomycin (mg): _____ Q _____ hours

Creatinine Clearance (Based on Ideal Body Weight)

Actual Weight	Clcr	0	10	15	20	30	40	50	60	70	80	90	100
	WT												
50kg	1000mg X 1	500mg Q 48h	500mg Q 48h	750mg Q 48h	500mg Q 24h	750mg Q 24h	750mg Q 24h	1000mg Q 24h	1000mg Q 24h	500mg Q 12h	750mg Q 12h	1000mg Q 12h	1000mg Q 12h
60kg	1250mg X 1	500mg Q 48h	750mg Q 48h	750mg Q 48h	750mg Q 24h	750mg Q 24h	1000mg Q 24h	1250mg Q 24h	1250mg Q 24h	750mg Q 12h	750mg Q 12h	1000mg Q 12h	1000mg Q 12h
70kg	1250mg X 1	500mg Q 48h	750mg Q 48h	500mg Q 24h	750mg Q 24h	1000mg Q 24h	1250mg Q 24h	1500mg Q 24h	750mg Q 12h	750mg Q 12h	1000mg Q 12h	1000mg Q 12h	1250mg Q 12h
80kg	1500mg X 1	750mg Q 48h	1000mg Q 48h	500mg Q 24h	750mg Q 24h	1000mg Q 24h	1250mg Q 24h	1500mg Q 24h	750mg Q 12h	1000mg Q 12h	1250mg Q 12h	1250mg Q 12h	1250mg Q 12h
90kg	1750mg X 1	750mg Q 48h	1000mg Q 48h	500mg Q 24h	1000mg Q 24h	1250mg Q 24h	1500mg Q 24h	1750mg Q 24h	1000mg Q 12h	1250mg Q 12h	1250mg Q 12h	1500mg Q 12h	1500mg Q 12h
100kg	2000mg X 1	750mg Q 48h	1250mg Q 48h	750mg Q 24h	1000mg Q 24h	1250mg Q 24h	1500mg Q 24h	1750mg Q 24h	1000mg Q 12h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1500mg Q 12h
110kg	2000mg X 1	1000mg Q 48h	1250mg Q 48h	750mg Q 24h	1000mg Q 24h	1500mg Q 24h	1750mg Q 24h	1000mg Q 12h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1500mg Q 12h	1250mg Q 8h
120kg	2250mg X 1	1000mg Q 48h	1250mg Q 48h	750mg Q 24h	1250mg Q 24h	1500mg Q 24h	1750mg Q 24h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1500mg Q 12h	1500mg Q 12h	1250mg Q 8h
130kg	2500mg X 1	1000mg Q 48h	1500mg Q 48h	750mg Q 24h	1250mg Q 24h	1500mg Q 24h	1000mg Q 12h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1500mg Q 12h	1250mg Q 8h	1250mg Q 8h
140kg	2750mg X 1	1250mg Q 48h	1500mg Q 48h	1000mg Q 24h	1500mg Q 24h	1750mg Q 24h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1500mg Q 12h	1250mg Q 8h	1250mg Q 8h	1250mg Q 8h
150kg	3000mg X 1	1250mg Q 48h	1750mg Q 48h	1000mg Q 24h	1500mg Q 24h	1750mg Q 24h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1250mg Q 8h	1250mg Q 8h	1500mg Q 8h	1500mg Q 8h

- Monitoring

- Obtain trough prior to 3rd dose. (Goal trough = 10-15)

Once therapeutic serum level is obtained, continue to monitor trough every other day .

- Serum creatinine obtained every 24 hours while therapy is continued.

VANCOMYCIN PROTOCOL FOR GOAL TROUGH 15-20

(indicated for meningitis, osteomyelitis, pneumonia , endocarditis and septic shock)

Caution for possible nephrotoxicity induced by concomitant nephrotoxic meds (amphotericin, NSAIDS, aminoglycosides, furosemide, ACE inhibitors,

TO BE COMPLETED IN FULL BY PRESCRIBER

- Initial dosing and schedule determination: the dose is based upon the patient's creatinine clearance (ClCr) and actual body weight.

To calculate the ClCr, use ideal body weight .

The following equations are to be used:

IBW (male)=50kg + 2.3kg/inch for each inch over 5 ft

IBW (female) = 45.5kg + 2.3kg/inch of each inch over 5 ft

If actual weight is less than ideal body weight, use actual weight to calculate Clcr

$ClCr = (140 - \text{age}) \times \text{ideal body weight (kg)} \times (0.85 \text{ if pt is female}) / 72 \text{ Serum Creatinine}$

A minimum serum creatinine value of 0.8mg/dL should be used for patient < 60 years old

A minimum serum creatinine value of 1mg/dL should be used for patients > 60 years old

Actual weight (kg): _____ Ideal Weight (kg) _____ Clcr (ml/min) = _____

- Give a loading of 25 mg/kg based on actual body Wt.
(Max dose = 3000 mg, round to nearest 250mg)

Vancomycin (mg): _____

- Determine subsequent dosing using nomogram below

Vancomycin (mg): _____ Q _____ hours

Creatinine Clearance (Based on Ideal Body Weight)

Actual Weight	ClCr	0	10	15	20	30	40	50	60	70	80	90	100
	WT												
50kg	1250mg X 1	500mg Q 48h	750mg Q 48h	1000mg Q 48h	500mg Q 24h	750mg Q 24h	500mg Q 12h	500mg Q 12h	750mg Q 12h	1000mg Q 12h	1000mg Q 12h	750mg Q 8h	
60kg	1500mg X 1	750mg Q 48h	1000mg Q 48h	1250mg Q 48h	750mg Q 24h	500mg Q 12h	500mg Q 12h	750mg Q 12h	1000mg Q 12h	1000mg Q 12h	1250mg Q 12h	750mg Q 8h	
70kg	1750mg X 1	750mg Q 48h	1000mg Q 48h	1250mg Q 48h	750mg Q 24h	500mg Q 12h	750mg Q 12h	750mg Q 12h	1000mg Q 12h	1250mg Q 12h	1250mg Q 12h	1000mg Q 8h	
80kg	2000mg X 1	1000mg Q 48h	1250mg Q 48h	1500mg Q 48h	1000mg Q 24h	500mg Q 12h	750mg Q 12h	1000mg Q 12h	1250mg Q 12h	1250mg Q 12h	1500mg Q 12h	1000mg Q 8h	
90kg	2250mg X 1	1250mg Q 48h	1500mg Q 48h	1750mg Q 48h	1000mg Q 24h	750mg Q 12h	750mg Q 12h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1000mg Q 8h	1250mg Q 8h	
100kg	2500mg X 1	1250mg Q 48h	1750mg Q 48h	2000mg Q 48h	1250mg Q 24h	750mg Q 12h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1000mg Q 8h	1000mg Q 8h	1250mg Q 8h	
110kg	2750mg X 1	1500mg Q 48h	1750mg Q 48h	1000mg Q 24h	1250mg Q 24h	750mg Q 12h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1000mg Q 8h	1250mg Q 8h	1500mg Q 8h	
120kg	3000mg X 1	1500mg Q 48h	750mg Q 24h	500mg Q 12h	750mg Q 12h	1000mg Q 12h	1250mg Q 12h	1500mg Q 12h	1000mg Q 8h	1250mg Q 8h	1250mg Q 8h	1500mg Q 8h	
130kg	3000mg X 1	1750mg Q 48h	750mg Q 24h	1000mg Q 24h	1500mg Q 24h	1000mg Q 12h	1250mg Q 12h	1000mg Q 8h	1000mg Q 8h	1250mg Q 8h	1500mg Q 8h	1500mg Q 8h	
140kg	3000mg X 1	1750mg Q 48h	1000mg Q 24h	1250mg Q 24h	1500mg Q 24h	1000mg Q 12h	1250mg Q 12h	1000mg Q 8h	1250mg Q 8h	1250mg Q 8h	1500mg Q 8h	1500mg Q 8h	
150kg	3000mg X 1	1750mg Q 48h	1000mg Q 24h	1250mg Q 24h	1500mg Q 24h	1000mg Q 12h	1250mg Q 12h	1000mg Q 8h	1250mg Q 8h	1500mg Q 8h	1500mg Q 8h	1750mg Q 8h	

- Monitoring

- Obtain trough prior to 3rd dose.(Goal trough = 15-20)

Once therapeutic serum level is obtained, continue to monitor trough every other day

- Serum creatinine obtained every 24 hours while therapy is continued