

Prescribing chart for vancomycin continuous infusion in ICU fluid restricted patients

This guide should be used in conjunction with Critical Care Vancomycin continuous infusion guideline available on the intranet.

Patients whose fluid intake must be limited can receive a solution of higher concentration (i.e. 10mg/ml) **via central line**, although the risk of infusion-related undesirable effects can be increased with these higher concentrations.

Use the continuous vancomycin infusion guideline to calculate required dose for patient, then refer to tables below to determine the volume and rate for the infusion. Prescribe on the chart as **'Vancomycin FLUID RESTRICTED'**. These rates are not programmed in Braun infusion pumps and usual setting would need to be overridden.

Table 1. Loading dose

Weight	Dose	Infusion volume of glucose 5%	Infusion time
<40kg	750mg	100ml	1.5 hours
40-59kg	1000mg	100ml	2 hours
60-90kg	1500mg	150ml	3 hours
>90kg	2000mg	200ml	4 hours

Table 2. Maintenance dose infusion

Daily Maintenance Dose	Dose in each infusion bag to be administered over 12 hours. X	Volume of infusion bag for 12 hour infusion. Y	Volume of reconstituted vancomycin (50mg/ml) to add to 12 hour infusion bag.	12 hour Infusion rate mls/hr. Z
250mg	125mg	50ml	2.5ml	4.1mls/hour
500mg	250mg	50ml	5.0ml	4.1mls/hour
750mg	375mg	50ml	7.5ml	4.1mls/hour
1000mg	500mg	50ml	10ml	4.1mls/hour
1250mg	625mg	100ml	12.5ml	8.3mls/hour
1500mg	750mg	100ml	15ml	8.3mls/hour
1750mg	875mg	100ml	17.5ml	8.3mls/hour
2000mg	1000mg	100ml	20ml	8.3mls/hour
2500mg	1250mg	150ml	25ml	12.5mls/hour
3000mg	1500mg	150ml	30ml	12.5mls/hour
3500mg	1750mg	200ml	35ml	16.6mls/hour
4000mg	2000mg	200ml	40ml	16.6mls/hour

References:

1. Vancomycin 1gm vial, Wockhardt: last updated on 14th January 2021
www.medicines.org.uk/emc/product/6255/smpc Accessed 31/01/2023
2. Minimum Infusions Volumes, UKCPA, 4th edition 2012

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