

Prescribing chart for vancomycin continuous infusion in ICU fluid restricted patients during COVID-19 pandemic

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.

Please use 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 COVID-19**'. 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 |

References:

1. Vancomycin 1g, Wockhardt, last reviewed February 2019
www.medicines.org.uk/emc/product/6255/smpc
2. Minimum Infusions Volumes, UKCPA, 4th edition 2012

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