

Policy for Intravenous Vancomycin in Adults

FLOW-DIAGRAM FOR INITIATING INTRAVENOUS VANCOMYCIN PULSED INFUSION IN ADULT PATIENTS – USE IF ONLINE VANCOMYCIN CALCULATOR UNAVAILABLE

A loading dose should be administered based on patient's actual body weight.					For online vancomycin	
			¥		vancomycin	
Actual bo	dy weight	Dose	Volume of sodium chloride 0.9% OR glucose 5%	Duration of infus	on <u>calculator</u> available via	
<40kg		750mg	250mL	90 minutes	90 minutes Highland an	
40-59kg		1000mg	250mL	2 hours	Western Isles	
60-90Kg		1500mg	500mL	3 hours	antimicrobial	
>90	ЛКУ	2000mg	<u>500m</u>	4 110015		
Calculate patient's ideal body weight (IBW): Males: 50 kg + 2.3 kg for every inch above 5 feet (or 2.5 cm above 152 cm) Females: 45.5 kg + 2.3 kg for every inch above 5 feet (or 2.5 cm above 152 Is patient obese (obese = actual body weight >20% over ideal body weight)?					g dose is based on bes not take account On rare occasions a ce of vancomycin hat the maintenance at the loading dose. tances, give the	
YES			NO			
Calculate cr	eatinine cleara	nce using IBW	Calculate creatinine clearance	e using actual body w	reight.	
	•		•			
Creatinine clearance (mL/min): (140 – age (years) x weight (kg) Creatinine (micromoles/L) Prescribe the first maintenance infusion 12, 24 or 48 hours af				NOTE In patients with low creatinine i.e. less than 60mmol/l, use 60mmol/l. Use of estimated GFR (eGFR) is not recommended		
Prescribe ii	ne mst mainten	Use the pre	-printed vancomycin prescription	chart		
VANCOMY						
		Volume of sodium chloride				
(mL/min)	Dose a	mount	0.9% OR glucose 5%	Dose interval	can be split into	
<20	500mg ov	er 1 hour	250 ml	48 hours	3 equal doses	
20-29	500mg ov	er 1 hour	250 ml	24 hours	and given 8	
30-39	750mg over 1.5 hours		250 ml	24 hours	particularly in	
40-54	500mg over 1 hour		250 ml	12 hours	patients who	
55-74	750mg over 1.5 hours		250 ml	12 hours	doses as it	
75-89	1000mg over 2 hours		250 ml	12 hours	produces higher	
90-110	1250mg over 2.5 hours		250 ml	12 hours	trough	
>110	1500mg ov	er 3 hours	500 ml	12 hours	concentrations.	
			★			
Take a troug daily if patier blood samp If renal functi Contact pha	h sample (pre- nt has unstable ling time on th on is stable, giv rmacy or micr	-dose) within 4 e renal functior ne request for ve the next dos robiology if yo	A8 hours of starting therapy then n. Monitor creatinine daily. Rec m and on the vancomycin pres se before the trough result is avain bu require any further advice.	every 2 to 3 days if p ord the time of the I cribing chart. lable.	batient is stable or ast dose and the	
Vancomuci						
valicomychi concentration Suggested dose change <10mg/l Increase dose by 50% and consider reducing the dosing interval (e.g. from 1g.)						
every 12 hours to 1g every 8 hours) or seek advice						
10 - 15ma/L		, , . _ .	If the patient is responding, maintain the present dose regimen.			