## Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP): Vancomycin, CefAZOLin, Daptomycin & Gentamicin Dosing in Haemodialysis

Vancomycin	Weight	Loading dose	Maintenance dose	Administration	Monitoring
A loading dose is     essential to ensure     adequate plasma     levels     Give 20mg/kg     loading dose     rounded to nearest     250mg	<50kg	750mg	750mg with each dialysis During latter part of dialysis, by infusion	For inpatients, administer in haemodialysis unit and record on inpatient drug chart	Not usually necessary to
	70-100kg	1.5g			once weekly Target trough 15 to 20mg/l The goal is to ensur
	Frookg	zg 			effective plasma levels
CetAZOLIN	No loading dose required		Give 2g/2g/3g three times weekly with each dialysis: 2g when next dialysis 2 days later, and 3g when next dialysis 3 days later	Post dialysis	None required
Daptomycin	No loading dose required		Give 6/6/9 mg/kg three times weekly with each dialysis: 6mg/kg when next dialysis 2 days later, and 9mg/kg when next dialysis 3 days later	Post dialysis	None required
Gentamicin	2mg/kg to max 160mg Use ABW, <b>unless</b> ABW	s20% above IRW	1mg/kg with each dialysis (max 80mg) Use ABW <b>unless</b> ABW	Post dialysis	I rough level at end dialysis but immediately prior to dose
	then use dosing wt =	20% above ibvv,	>20% above IBW,		Target trough less than 2mg/l  The goal is to
	IBW + 0.4 (ABW-IBW)*		then use dosing wt =  IBW + 0.4 (ABW-IBW)*		<ul> <li>The goal is to minimise toxicity an to ensure effective plasma levels</li> </ul>

\*IBW – ideal body weight; ABW – actual body weight. IBW (kg) = 50 (45.5 for women) + (2.3 x inches over 5 feet)

Further Information: Vancomycin: 80-90% excreted unchanged by the kidneys. Not significantly removed by conventional HD, removal increased by high flux HD. Gentamicin: 100% excreted unchanged by the kidneys. 30% removed during 4 hour HD

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Ref: IDSA Guidelines for the diagnosis and management of intravascular catheter-related infection. Clin Infect Dis 2009;49:1-45

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