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

/ancomycin	Weight	Loading dose	Maintenance dose	Administration	Monitoring
A loading dose is			750mg with each dialysis	For inpatients, administer	Not usually pages any t
essential to ensure			750mg with each dialysis	in haemodialysis unit and	
			During latter part of		
adequate plasma			dialysis, by infusion		levels unless previous
levels				chart	level high or toxicity
<ul> <li>Give 20mg/kg loading dose rounded to nearest 250mg</li> </ul>				See IV guide for more	suspected
				information on	Pre-dialysis trough
	<50kg	750mg	$\dashv$	administration	level
					Check first trough
	50-69kg	1 0	_		level before the
	50-69kg	1g			second dose, then
					once weekly
	70-100kg	1.5g	$\neg$		Target trough 15 to
					20mg/l
	>100kg	2g	_		<ul> <li>The goal is to ensure</li> </ul>
	Flooring	29			effective plasma
					levels
CetAZOLin	No loading dose required		Give 2g/2g/3g three	Post dialysis	None required
			times weekly with each		
			dialysis: 2g when next		
			dialysis 2 days later, and		
			3g when next dialysis 3		
			days later		
Daptomycın	No loading dose required		Give 6/6/9 mg/kg three	Post dialysis	None required
			times weekly with each		
			dialysis: 6mg/kg when		
			next dialysis 2 days later,		
			and 9mg/kg when next		
			dialysis 3 days later		
Gentamicin	2mg/kg		1mg/kg with each dialysis	Post dialysis	<ul> <li>I rough level at end of</li> </ul>
			(max 80mg)		dialysis but
	to max 160mg				immediately prior to
	Use ABW, unless ABW >20% above IBW,		Use ABW <b>unless</b> ABW		dose
			>20% above IBW,		<ul> <li>Target trough less</li> </ul>
	then use dosing wt =		22070 above ibvv,		than 2mg/l
			then use dosing wt =		The goal is to
	IBW + 0.4 (ABW-IBW)*				minimise toxicity and
			IBW + 0.4 (ABW-IBW)*		to ensure effective
	1		I		plasma levels

\*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

Developed by GUH Pharmacy & Nephrology Depts

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

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