Te Toka Tumai Adult Aminoglycoside Dosing and Monitoring

	GEN	ITAMICIN & TOBR	AMYCIN	
Gentamicin &	Ensure that the pa		amicin / tobramycin / amikaciı &E / theatres / critical care)	n in the last 24 hours
Tobramycin Dosing	 Document height (cm) and weight (kg) on drug chart Dose using ideal body weight (IBW) unless the patient is obese (>120% IBW) then use adjusted body weight (AdjBW) AdjBW (kg) = IBW + 0.4 (Actual weight – IBW) [Max 100kg dosing weight] Calculate renal function 			
F	Round gentamicin and tobramycin dosing to the nearest 50 mg			
	Dosing in stable CrCL (including CKD)		Dosing in AKI	
	CrCL (mL/min)	Dosing (max 500 mg)	CrCL (mL/min)	Dosing (max 500 mg)
	> 40 mL/min	5 mg/kg q24h	AKI 2° to sepsis Baseline CrCL >40 mL/min or unknown	5 mg/kg STAT
	20 - 40 mL/min or endocarditis	3 mg/kg q24h	Acute on CKD 2° to sepsis Baseline CrCL <40 mL/min	3 mg/kg STAT
	< 20 mL/min	3 mg/kg STAT, then discuss with pharmacy	AKI and NO sepsis	Avoid If possible (or 3mg/kg STAT)
		·		
		AMIKACIN		
Amikacin	Ensure that the pa		amicin / tobramycin / amikaci	n in the last 24 hours
Dosing	(check charts from A&E / theatres / critical care)			
200118		ght (cm) and weight (kg) (al body weight (IBW) unl	on drug chart ess the patient is obese (>120	% IBW) then use
	adjusted body	weight (AdjBW)		, ,
-	3. Calculate renal function Round amikacin dosing to the nearest 50 mg			
			- IBW) [Max 100kg dosing we	eight]
	Dosing in stable C			
	Dosing in stable C CrCL (mL/min)	Round amikacin do	sing to the nearest 50 mg	
		Round amikacin do rCL (including CKD) Dosing	sing to the nearest 50 mg Dosing	in AKI Dosing
	CrCL (mL/min)	Round amikacin do rCL (including CKD) Dosing (max 1500 mg)	CrCL (mL/min) AKI 2° to sepsis Baseline CrCL >40 mL/min	in AKI Dosing (max 1500 mg)
	CrCL (mL/min)	Round amikacin do rCL (including CKD) Dosing (max 1500 mg) 15 mg/kg q24h	Sing to the nearest 50 mg Dosing CrCL (mL/min) AKI 2° to sepsis Baseline CrCL >40 mL/min or unknown Acute on CKD 2° to sepsis	in AKI Dosing (max 1500 mg) 15 mg/kg STAT
	CrCL (mL/min) > 40 mL/min 20 - 40 mL/min < 20 mL/min	Round amikacin do rCL (including CKD) Dosing (max 1500 mg) 15 mg/kg q24h 7.5 mg/kg q24h 7.5 mg/kg STAT, then discuss with pharmacy	Sing to the nearest 50 mg Dosing CrCL (mL/min) AKI 2° to sepsis Baseline CrCL >40 mL/min or unknown Acute on CKD 2° to sepsis Baseline CrCL <40 mL/min Acute on CKD 2° to sepsis Baseline CrCL <40 mL/min AKI and NO sepsis	in AKI Dosing (max 1500 mg) 15 mg/kg STAT 7.5 mg/kg STAT Avoid If possible (or 7.5mg/kg STAT)
Aminoglycoside	CrCL (mL/min) > 40 mL/min 20 - 40 mL/min < 20 mL/min	Round amikacin do rCL (including CKD) Dosing (max 1500 mg) 15 mg/kg q24h 7.5 mg/kg q24h 7.5 mg/kg STAT, then discuss with pharmacy	Sing to the nearest 50 mg Dosing CrCL (mL/min) AKI 2° to sepsis Baseline CrCL >40 mL/min or unknown Acute on CKD 2° to sepsis Baseline CrCL <40 mL/min	in AKI Dosing (max 1500 mg) 15 mg/kg STAT 7.5 mg/kg STAT Avoid If possible (or 7.5mg/kg STAT)
Aminoglycoside Monitoring	CrCL (mL/min) > 40 mL/min 20 - 40 mL/min < 20 mL/min Bayesian AUC	Round amikacin do rCL (including CKD) Dosing (max 1500 mg) 15 mg/kg q24h 7.5 mg/kg q24h 7.5 mg/kg STAT, then discuss with pharmacy	Sing to the nearest 50 mg Dosing CrCL (mL/min) AKI 2° to sepsis Baseline CrCL >40 mL/min or unknown Acute on CKD 2° to sepsis Baseline CrCL <40 mL/min Acute on CKD 2° to sepsis Baseline CrCL <40 mL/min AKI and NO sepsis	in AKI Dosing (max 1500 mg) 15 mg/kg STAT 7.5 mg/kg STAT Avoid If possible (or 7.5mg/kg STAT) aminoglycosides
	CrCL (mL/min) > 40 mL/min 20 - 40 mL/min < 20 mL/min Bayesian AUC Tal	Round amikacin do rCL (including CKD) Dosing (max 1500 mg) 15 mg/kg q24h 7.5 mg/kg q24h 7.5 mg/kg q24h 7.5 mg/kg STAT, then discuss with pharmacy 24 forecasting TDM (exclusion) Ke a random amin	Sing to the nearest 50 mg Dosing CrCL (mL/min) AKI 2° to sepsis Baseline CrCL >40 mL/min or unknown Acute on CKD 2° to sepsis Baseline CrCL <40 mL/min AkI and NO sepsis ding dialysis patients) for ALL and	in AKI Dosing (max 1500 mg) 15 mg/kg STAT 7.5 mg/kg STAT Avoid If possible (or 7.5mg/kg STAT) aminoglycosides ation