

Regional Order Set

Initiation of Aminoglycosides for Adult Innatients

Page 1 012 PATIENT LABEL	
Allergies: ☐ None known ☐ Unable to obtain	Weight:
List with reactions:	Height:
Initial labs: ☐ Serum creatinine (SCr) stat	•
Choose one of the following dosing strategies (A or B):	
A) aminoglycosides high dose extended interval (once daily) dosing	
Comparable efficacy and toxicity to conventional (multiple daily dose) dosing and requires less serum	level monitoring.
Do not use high dose extended interval in:	
 Patients with endocarditis (except when due to viridans group streptococci or strep bovis - 3 mg/k Patients with ascites or serious liver disease Patients on dialysis Surgical prophylaxis (single dose) Patients with burns Patients with unstable renal function or creatinine clearance (CrCl) less than 20 mL/min Patients requiring synergy against gram positive organisms (except as for endocarditis above) Note: This order set is not indicated for use in pediatric/neonatal population 	g/day in 1 dose
□ tobramycin (6 mg/kg IBW* round dose to nearest 20 mg) qh (see below for do	ocina intonvol)
tobramycin (6 mg/kg ibvv found dose to hearest 20 mg) qn (see below for do	ing interval)
□ gentamicin (6 mg/kg IBW* round dose to nearest 20 mg) qh (see below for do	sing interval)
* IBW (Ideal Body Weight) • Females = 45.5 kg + 2.3(number of inches over 5 ft) • Males = 50 kg + 2.3(number of inches over 5 ft) If shorter than use negative	
 If total body weight (TBW) is less than IBW use TBW for dosing 	
 If patient is obese (20% or greater than their IBW - use adjusted body weight (ABW) for dosing: ABW = IBW + 0.4 ([total body weight] - IBW) 	
• Estimated CrCl = [(140 - age) x 90] / SCr (micromole/L) Multiply by 0.85 for females	
 Frail elderly patients, paraplegic, quadriplegic and amputee patients with low SCr: Suggest choosing a longer dosing interval as SCr may not be an accurate measure due to low musc 	le mass

aminoglycoside extended dosing interval based on calculated CrCl			
Calculated CrCl (mL/min)	Dosing interval		
Equal to or greater than 60	q24h		
40 to 59	q36h		
20 to 39	q48h (consider conventional dosing)		
Less than 20	Use conventional dosing (see page 2)		
Hemodialysis	Use conventional dosing (see page 2)		

Monitoring:

- Draw aminoglycoside serum trough level 6 hours prior to 3rd dose and notify pharmacy for follow up of levels (UHNBC pharmacy available from 08:00 to 16:00 weekends/holidays at 250-565-2317)
- SCr three times weekly (Monday, Wednesday, Friday) while on an aminoglycoside

 Avoid other nephrotoxic medications if possible while on an amin 	glycoside	: (e.g. NSA	(SDI،
--	-----------	-------------	-------

College ID: Time: Physician signature: Date: 10-111-5336 (IND - VPM/RPD - Appr. - 07/19) Review by December 2022





Regional Order Set

Initiation of Aminoglycosides for Adult

Inpatients Page 2 of 2 PATIENT LABEL

Allergies: ☐ None known ☐ Unable to List with reactions:			Weight:k	
B) aminoglycosides conventional (mul-	tiple daily dose) dosing (see ta	ble below for dosing interv	ral)	
□ tobramycin (1.7 mg/kg	IBW* round dose to nearest 20 r	ng) qh		
□ gentamicin (1.7 mg/kg	IBW* round dose to nearest 20 r	ng) qh		
□ gentamicin (for synergy)	_ (1 mg/kg IBW* round dose to r	nearest 20 mg) qI	n	
*See page 1 for IBW and CrCl calculations	;			
aminoglycoside conventiona	l dosing interval based on calcu	lated creatinine clearanc	e (CrCl)	
Calculated CrCl (mL/min	n)	Dosing interval		
Equal to or greater than 6	60	q8h		
40 to 59		q12h		
20 to 39		q24h		
Less than 20	Give	Give single dose and consult pharmacist		
Hemodialysis	Give	Give single dose and consult pharmacist		
Monitoring:				
Draw serum trough level 30 minutes pr	ior to 3rd dose			
Draw serum peak level 30 minutes after	r end of infusion of 3rd dose			
 Notify pharmacy for follow up of level re (UHNBC pharmacy available from 08:00 		250-565-2317)		
SCr three times weekly (Monday, Wedn	esday, Friday) while on an amin	oglycoside		
Avoid other nephrotoxic medications	if possible while on an amino	glycoside (e.g. NSAIDs)		
Physician signature:	College ID:	Date:	Time:	