

**POLICY AND PROCEDURE MANUAL
PHARMACY SERVICES**

SECTION: **INTRAVENOUS ADMIXTURE PROGRAM**

SUBJECT: **AMINOGLYCOSIDE MONITORING PROCEDURE**

CODE: 5.14.0
DATE: 4/15/11
REVISED: 4/19/22
APPROVED: Thinkh Tran, Pharm. D
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POLICY

Monitoring of hospital patients on aminoglycosides will be done by the Inpatient Pharmacy to assure that the dose is appropriate and safe for the patients' current disease state and physical condition.

PROCEDURE

I. New Aminoglycoside order

A If dosing clarification needed, discuss with physician the following:

1. For patients with normal renal function, recommend:
 - an appropriate dose (see below)
 - check trough 30 minutes prior to 4th dose, and peak ~1 hour after 4th dose

Dosing Reference :

- Gentamicin/Tobramycin: 1.5 mg/kg IV q8hr
- Amikacin: 5 mg/kg IV q8hr or 7.5 mg/kg IV q12hr (max 1.5 gm/day)
- **If patient is obese [Wt in kg > 120% of Ideal Body Weight (IBW)], use ADJUSTED BODY WEIGHT (ABW) to dose**
IBW
Males: $50 \text{ kg} + 2.3 [\text{Ht (inches)} > 60]$
Females: $45.5 \text{ kg} + 2.3 [\text{Ht(inches)} > 60]$
 $\text{ABW} = [(\text{Actual Wt} - \text{IBW})0.4] + \text{IBW}$

**Per Rancho protocol:

- Gentamicin and Tobramycin goal peak: 3~10
goal trough: <1.5
- Amikacin goal peak: 10~30
goal trough: less than 8

2. For patients with renal impairment, or unstable renal function, or on other ototoxic and/or nephrotoxic medications, recommend starting patient on conservative dose, check peak and trough as denoted above, and suggest Clinical Pharmacist consult as needed

Reviewed: 4/29/14bj, 6/8/15ll, 4/19/2022 TT

Approved By: *Ben Arndt*

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3. For patients on hemodialysis, recommend giving appropriate dose (see MICROMEDEX) after hemodialysis sessions and suggest Clinical Pharmacy consult

II Aminoglycoside peak or trough level not within guidelines

A If Clinical Pharmacist is NOT following the patient:

1. Check to see if level drawn at appropriate time
 - If level was not drawn appropriately, call physician and recommend re-draw at proper time
 - If level was drawn appropriately, call physician and discuss appropriate dosing adjustment, recommend rechecking levels around 4th dose after dosage change, and suggest Clinical Pharmacist consult as needed.

III No Aminoglycoside peak and trough level after 7-10 days

A. If a Clinical Pharmacist is NOT following the patient

1. Recommend drawing a peak and trough level prior to the next dose.
2. Recommend a Clinical Pharmacist consult as needed

*****CLINICAL PHARMACIST CONSULTATION SERVICE HOURS:
Monday through Friday, 7:00 AM – 3:30 PM, except on holidays**