

Gentamicin dosing for surgical prophylaxis:

IDSA/surgical infection society guidelines for surgical prophylaxis recommend a gentamicin dose of **5mg/kg** be utilized

Below table based on actual body weight will be utilized to determine gentamicin dosing

Patient Weight	Gentamicin Dose
< 50 kg	Gentamicin 5mg/kg
50-70 kg	Gentamicin 350mg IVPB
>70 kg	Gentamicin 500mg IVPB

Infuse over time for all doses will be 30 minutes

Additional Comments:

- 1.) The gentamicin dose will need to be prepared the night before, BUD 48 hours.
- 2.) Pharmacist will enter preop antibiotic and print the "patient specific" label
- 3.) Technician to prepare all gentamicin doses for the next day and mark/write at the top of the ACSR sheet the patient will be receiving gentamicin
- 4.) Preop doses for the next day should be stored in the refrigerator in a bin clearly labeled gentamicin preop doses.
- 5.) The anesthesia provider will be responsible for picking up the pre-operative antibiotic dose when picking up the controlled substances for the patient.

New dosing strategy for prophylaxis:

1. Higher gentamicin dose preop order entered (5mg/kg or 350mg or 500mg depending on weight) **This dose provides 24 hours of prophylaxis**
2. Gent RH to dose order to fire when patient is post op for 24 hours prophylaxis.
3. Pharmacist to review what dose was given preop. If patient received a dose based on new dosing strategy (for example 500mg) then NO ADDITIONAL GENTAMICIN SHOULD BE GIVEN.
4. Pharmacist to verify *gent RPH to Dose* order and not enter additional doses.

Example:

- 65kg patient with normal renal function
- Based on new dosing table → preop dose=350mg
- 350mg preop gent → no additional doses needed for 24 hour coverage