

gentamicin 5 mg/mL in D5W IV syringe PEDS

***use floor stock syringe: gentamicin 40 mg/8 mL D5W**

SUPPLIES

include quantity and medication name, strength/concentration, volume, diluent, diluent volume, and quantity and name of each supply needed

NS flush syringes are never to be used for reconstitution/diluent for medication.

Reconstituted solution is for single patient use only.

- Two (2) gentamicin (Preservative Free) 10 mg/mL (2 mL) vials
- One (1) D5W 50 mL bag
- Alcohol swabs
- One (1) 18-gauge needle preferred (20-23 gauge needles acceptable)
- One (1) 10 mL sterile IV syringe
- One (1) appropriate syringe size for patient specific dose
- One (1) syringe connector (Fluid Dispensing Connector)
- Nursing IV admixture label(s) – Lawson # 626

STEPS

explicitly state each step in chronological order, including hand washing, gown/garb, alcohol swab, etc.)

1. Wash hands. Prepare/clean the designated mixing area.
2. Flip the cap off of the gentamicin (Preservative Free) 20 mg/2 mL injection vials, wipe the rubber stoppers with alcohol swab, and wipe the injection port of the D5W bag.
3. Attach 18 gauge needle to syringe. Withdraw a total of 4 mL from gentamicin (Preservative Free) 20 mg/2 mL injection vials into a 10 mL syringe.
4. Using the syringe containing 4 mL gentamicin injection, withdraw 4 mL from D5W bag for a total volume of 8 mL. Discard the remaining D5W bag.
5. Gently invert syringe to mix. Do not shake. Visually inspect solution (e.g. free of inappropriate visible particulates or other foreign matter, discoloration, and defect), and the container integrity is intact. Discard if any defects.
6. Label the gentamicin 40 mg/8 mL D5W floor stock syringe with:
 - a. Drug name, strength, and dose (if not apparent by the container)
 - b. Diluent and volume (if not apparent by the container)
 - c. Hang-by date and time (**administration must begin within 1 hour from the time of compounding**)
 - d. Initials of person compounding
7. Attach the gentamicin 40 mg/8 mL D5W stock syringe and syringe for patient specific dose to syringe connector. Transfer patient-specific ordered dose volume into syringe for patient specific dose.
8. Discard the stock syringe once dose volume is transferred.
9. Visually inspect the final syringe for particulate matter/defects. Discard if any defects.
10. Label the final syringe with the following information:
 - a. Patient name and location
 - b. Drug name, strength, and dose (if not apparent by the container)
 - c. Diluent and volume (if not apparent by the container)
 - d. Hang-by date and time (**administration must begin within 1 hour from the time of dose withdrawn from floor stock bag**)
 - e. Initials of person compounding

References

- Gentamicin injection [prescribing information]. Lake Zurich, IL: Fresenius Kabi USA, LLC. Revised: 12/2023.
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- United States Pharmacopeia (USP). General Chapter, <797> Pharmaceutical Compounding—Sterile Preparations. (2023) USP-NF. Rockville, MD: United States Pharmacopeia.
<https://ochsnerhealth.sharepoint.com/sites/ClinicalResources/SiteAssets/Forms/AllItems.aspx?id=%2Fsites%2FClinicalResources%2FSiteAssets%2FSitePages%2FRegulatory%2DReadiness%2FUSP%2D797%2DOfficial%2D11%2E1%2E23%2Epdf&parent=%2Fsites%2FClinicalResources%2FSiteAssets%2FSitePages%2FRegulatory%2DReadiness>.