



Prepare the injection with the correct needle length based on the recipient's age. Gender and weight should be considered for adults 19 years of age and older.

- Use aseptic technique to mix the vaccine and prepare the injection.
- Prepare the vaccine using a **NEW** vial of diluent and a **NEW** vial of vaccine **EVERY TIME**.
- Prepare the injection using a new, sterile needle and syringe **EVERY TIME**.



Mixing Vaccine

Do



Use the needles and syringes labeled for mixing vaccine and diluent in the ancillary supply kit.



Use 0.9% sodium chloride (normal saline, preservative-free) **ONLY**.



Slowly inject the proper volume of diluent into the vial of thawed vaccine*:

- 6 months through 4 years (maroon cap vial), use 2.2 mL of diluent.
- 5 through 11 years (orange cap vial), use 1.3 mL of diluent.



Gently invert the vial 10 times before and after adding the diluent.



Discard the diluent vial after mixing the vaccine.

Don't



Do **NOT** use needles and syringes designated for administration to mix vaccine and diluent.



Do **NOT** use bacteriostatic normal saline or other diluents.



Do **NOT** use all the diluent in the vial.



Do **NOT** shake the vial.



Do **NOT** use or save any remaining diluent to mix with additional vials of vaccine or for other uses.

*Using a 21-gauge or narrower needle

Withdrawing doses of vaccine from the vial

After mixing, use low dead-volume syringes and/or needles to withdraw doses of vaccine. If sufficient quantities of low-dead volume syringes are not available to withdraw all doses, use a combination of low dead-volume syringes and non low-dead volume syringes.

Do



When mixing and withdrawing vaccine, insert the needle into different places on the vial septum.



Leave needle in vial to remove air bubbles, when applicable.



If the amount of vaccine left in the vial is not a full dose, discard the vial and remaining vaccine.

Don't



Do **NOT** use the same insertion point every time. This may cause vaccine to leak from the vial.



Do **NOT** remove air bubbles with the needle outside of the vial as vaccine can be easily lost in the process.



Do **NOT** combine remaining vaccine from multiple vials to obtain a full dose.