

Topic 6: Multi-Dose Vials



Agenda

- Why Injection Safety Matters for Multi-Dose Vials
- Infection Control Actions for Using Multi-Dose Vials
- Reflection

Learning OBJECTIVES

- **Discuss** two (2) reasons why injection safety actions are important when using multi-dose vials.
- **Describe** at least four (4) injection safety steps to take when using a multi-dose vial.

Why injection safety matters for multi-dose vials

- Why injection safety for multi-dose vials is so important.

Definitions

Source: CDC Website. “Questions about multi-dose vials”. Retrieved from: <https://www.cdc.gov/injectionsafety/providers/p>

INSIDE INFECTION CONTROL

HOW DO I SAFELY USE A MULTI-DOSE VACCINE VIAL?

EPISODE 8 PART 1



Multi-dose Vials are Different

- Multi-dose vials are different from single-dose vials in several ways and require important injection safety actions.

Why?

- Multi-dose vaccine vials are accessed by a new needle and syringe more than once, to pull out individual doses for separate patients.
- Accessing the vial more than once can be an infection control issue.

Contaminated vaccines cannot be used

- If a needle or syringe gets dirty and goes into the vial, it will contaminate the rest of the doses of vaccine inside the vial.
- If the vaccine is contaminated, it cannot be used anymore and must be thrown away.

Why?

- If contaminated vaccine is used on a patient, the patient could get sick or die.
- We don't want to throw away vaccines that could be given to patients.

Injection Safety actions are important for multi-dose vials

- How to implement injection safety actions for multi-dose vials.

Use multi-dose vials safely



Multi-Dose Vials

Injection safety

Injection safety actions are important for multi-dose vials.

HOW DO I SAFELY USE A MULTI-DOSE VACCINE VIAL?

You vaccinate patients to protect them. Correctly using multi-dose vials ensures your patients don't get an infection because of vaccination.

CHECK THAT YOU ARE USING MULTI-DOSE VACCINE VIALS SAFELY **EVERY TIME.**



- ✓ Always prepare multi-dose vial injections away from patient care spaces
- ✓ Clean your hands before touching the vial
- ✓ Check the label to make sure it is a multi-dose vaccine vial
- ✓ Check to make sure the vaccine is **not expired or "beyond use"**
- ✓ **Look and see** if the vaccine appears the way the vaccine maker tells you it should
- ✓ Use **brand-new, sterile needles and syringes** for every vaccine dose
- ✓ **Disinfect the top** part of the vial with an alcohol prep pad for at least **15 seconds**—every time
- ✓ Make sure the **top is dry** before sticking the needle in it
- ✓ Once you put the needle in, **write the date and time it was opened** on the label
- ✓ Follow the vaccine maker's **instructions for storage**
- ✓ **Never "pool" doses** (combine partial doses from multiple vials to make one dose for a patient)

prepare the vial

- Injection safety actions are important.
 - **Q:** Where should multi-dose vials be prepared?
 - **A:** Prepare the vial in a quiet, private space. Never bring multi-dose vials into patient care spaces.

Check the vial

- Injection safety actions are important.
 - **Q:** What do you want to check before using the vial?
 - **A:** Check the label to make sure it is a multi-dose vial, and it is not expired. Also check to make sure the vaccine looks the way it is supposed to.

Disinfect the Top of the Vial

- Injection safety actions are important.
 - **Q:** Why should you disinfect the top of the vial before inserting the needle?
 - **A:** Disinfect the top of the vial with an alcohol prep pad to kill any germs on the top, so you don't push germs into the vial when you insert the needle. Let the top dry before you insert the needle.

Access the vial

- Injection safety actions are important.
 - **Q:** What do you need to do the first time you open a multi-dose vaccine vial?
 - **A:** How long you can use the vaccine after you first access the vial varies by product. Writing the date and time the vial was opened on the label helps prevent vaccine from being given to a patient beyond its use date.

Vaccine in the vial

- Injection safety actions are important.
 - **Q:** What do you do if there is a little bit of vaccine left in the vial, but it's not enough for a full dose?
 - **A:** Throw the remaining vaccine away. Never combine doses from different vials or give someone less than a full dose.

Handout: How Do I safely use a multi-Dose vial?

- Multi-Dose Vial Infection Control Procedure

Use the checklist to familiarize yourself with the appropriate infection control procedures.

HOW DO I SAFELY USE A MULTI-DOSE VACCINE VIAL?

You vaccinate patients to protect them. Correctly using multi-dose vials keeps your patients safe from germs that can spread from contaminated vials, needles, and syringes.

CHECK THAT YOU ARE USING MULTI-DOSE VACCINE VIALS SAFELY **EVERY TIME.**



- ✓ Always prepare multi-dose vial injections away from patient care spaces in a clean designated area
- ✓ Clean your hands before touching the vial
- ✓ Check the label to make sure it is a multi-dose vaccine vial
- ✓ Check to make sure the vaccine is **not expired** or “beyond use”
- ✓ Look and see if the vaccine appears the way the vaccine maker tells you it should
- ✓ Use **brand-new, sterile needles and syringes** for every vaccine dose
- ✓ Disinfect the **top** part of the vial (the vial stopper) with an alcohol prep pad—**every time**
- ✓ Make sure the **top is dry** before sticking the needle in it
- ✓ When you first put a needle in, **write the date and time** on the label
- ✓ Follow the vaccine maker’s **instructions for storage**
- ✓ **Never “pool” doses** (combine partial doses from multiple vials to make one dose for a patient)

One Needle, One Syringe, Only One Time

The CDC has developed resources to support the understanding of the basics of injection safety.

Resources include:

- FAQs
- Checklists
- Patient handouts
- Videos on clinical practices
- <https://www.cdc.gov/injectionsafety/one-and-only.html>
- Posters



Reflection

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Key Takeaways

- Multi-dose vials require a specific set of safety procedures that are different from those for single-dose vials or multi-dose vials used with only one patient.
- Contaminated vaccines cannot be used.
- Injection safety actions are important.

Applying what you learned

Type into the chat one thing you'll need to do, or continue to do, in your practice to make sure you're using multi-dose vials safely.



Resources and Future Training sessions

Project Firstline on CDC:

<https://www.cdc.gov/infection-control/projectfirstline/index.html>

Project Firstline on Facebook:

<https://www.facebook.com/CDCProjectFirstline/>

Twitter:

https://twitter.com/CDC_Firstline

Youtube:

<https://www.youtube.com/playlist?list=PLvvp9iOILTQZQGtDnSDGViKDdRtlc13VX>



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