

Louisiana Department of Health - Office of Public Health - Louisiana Immunization Program**Provider Notice: LOW DEAD VOLUME SYRINGES CRITICAL TO OBTAIN 5 DOSES PER VIAL**

This document is for informational purposes only and is intended to address best practices for optimizing syringe, needle, and related preparation considerations for the JYNNEOS monkeypox vaccines.

Background

On August 9, 2022 the U.S. Food and Drug Administration issued an emergency use authorization (EUA) allowing healthcare providers to use an alternative dosing regimen of the JYNNEOS vaccine for individuals 18 years of age and older determined to be at high risk of monkeypox infection. This EUA allows for up to five doses of the vaccine to be drawn from one vial. Previously, only one dose was to be drawn from each individual vial. This one-fifth dose is given intradermally, meaning between the layers of the skin, rather than subcutaneously, or under the skin, as it has been given.

Louisiana's allocation of JYNNEOS vaccine is now calculated based on 5 doses per vial. With such limited quantities, it is critical for providers to draw up 5 doses per vial consistently.

Note: Individuals under 18 years of age or those 18+ with a history of keloid scars should still continue to receive JYNNEOS subcutaneously (One 0.5ml dose per vial).

Proper Syringes

Administration of the JYNNEOS vaccine should be performed using 1 mL syringes.

- HAIUO 1 mL Needle Retractable Safety Syringe
- VANISHPOINT 1 mL syringe with retractable safety needle
- ULTICARE 1 mL
- Tuberculin Safety Syringe
- DPS Bare 1 mL Hypodermic Syringe
- TKMD 1 mL Disposable Syringe
- MONOJECT 1 mL Tuberculin syringe

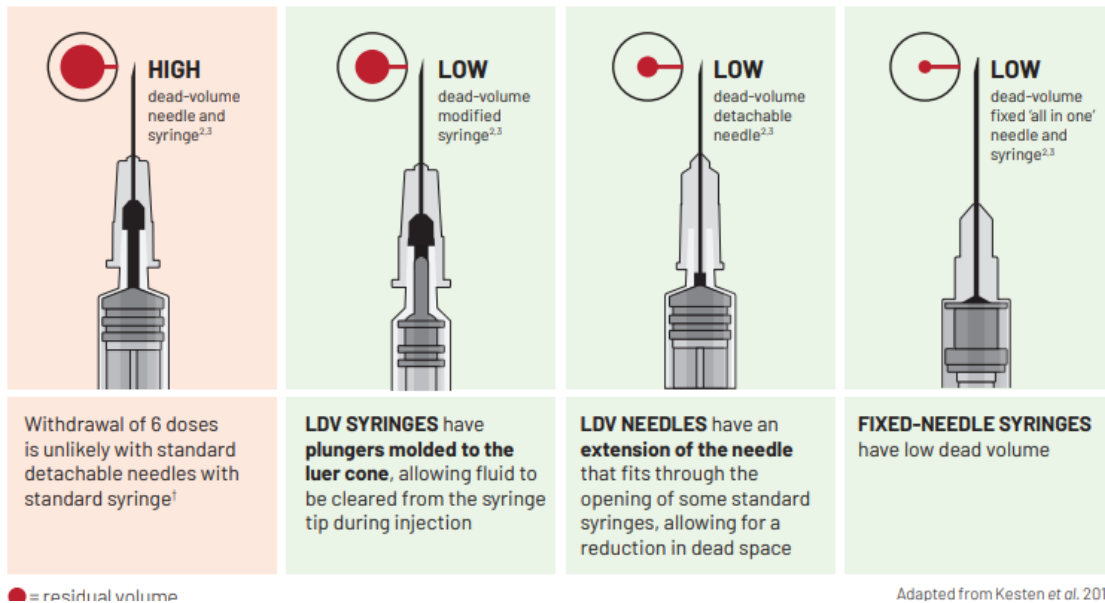
Proper Needles for this Smaller Dose

The selection of needles, and dose withdrawal practices, are critical to reliably draw 5 doses per vial each time. Based on the current guidance, it is recommended to:

- **Utilize low-dead volume syringes. (All providers surveyed who utilize low dead volume syringes have been able to consistently get 5 doses per vial. With such a small/precise dose, even a small amount of dead space in a syringe can prevent provider from drawing 5 doses).**
- Adjustments to remove air bubbles should be done with the needle still in the vial to avoid loss of vaccine
- Use 1/2-inch needles, 27-gauge or narrower, to withdraw vaccine for administration.
- Use the same needle for withdrawal and administration to prevent loss of vaccine. If a second needle is required for administration, pull back on the syringe plunger until a small amount of air enters the syringe prior to removing the first needle in order to avoid loss of dosing solution during the needle change. Place a new needle before releasing the plunger.
- Draw up the vaccine just prior to administration
- Do a visual inspection to verify the final dosing volume prior to administration

- Use a different syringe and needle for each of the five doses drawn from the single vial.

Low dead-volume (LDV) syringes and needles are designed to reduce this wastage



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