



Monkey Pox (MPX) Inventory Management

Prepared by STChealth
August 18, 2022

STChealth
411 South 1st Street
Phoenix, AZ 85004
480.745.8500 phone
602.598.7712 fax
www.STChealth.com



UPDATED: August 17, 2022

Smallpox and Monkeypox Vaccine, Live, Non-Replicating (trade name JYNNEOS) is approved by FDA and recommended for the prevention of smallpox and monkeypox (MPX) disease in adults 18 years of age and older determined to be at high risk for smallpox or MPX infection. JYNNEOS was originally licensed for subcutaneous injection of 2 doses of 0.5 ml given at an interval of 28 days. Throughout 2022 supplies of JYNNEOS are expected to be limited. The number of doses at the standard 0.5 ml volume are insufficient to protect prioritized populations at risk of contracting MPX during the current epidemic.

On August 9, 2022, FDA issued Emergency Use Authorization (EUA) for intradermal injection of doses of 0.1 ml as an alternative to subcutaneous injection for adults 18 years and older, similarly given as a 2-dose series at an interval of 28 days. Subsequent guidance from CDC endorses intradermal vaccination of adults against MPX.

In order to maximize the number of individuals that can benefit from JYNNEOS vaccine during this epidemic, CDC recommends intradermal administration (0.1mL) with exceptions for subcutaneous use noted in current CDC guidance for identified populations.

Contents

Background Information.....	3
Managing Monkey Pox Inventory.....	3
Step One – State/Jurisdiction VOMS User.....	3
Step Two – Provider/VOMS User	4
Decrementing Administered Monkey Pox Vaccines	4
Step 3a – Provider User, Intradermal Administration	4
Step 3b – Provider User, Subcutaneous Administration.....	5
Decrementing Additional Monkey Pox Doses.....	5
Step 4a – Provider User, Wasted Doses.....	6
Step 4b – Provider User, 0.5mL Administered	6



Background Information

The following are helpful tips to know about STC|ONE Inventory Management with MPX:

1. STC|ONE uses the Dose Size and not the Volume (CC) to decrement the appropriate dose from the inventory.
2. Dose Size is defined on the Vaccine Settings page
3. STC|ONE does not have a way to account for a dose size of 1/5th or quintuple/fivefold/five times as would be required with the recent changes for MPX.

Managing Monkey Pox Inventory

The majority of the population will receive the intradermal administration (0.1mL) of the vaccine as such, the following recommendations should be made to effectively manage the MPX inventory with two different volume/dose sizes are available.

Step One – State/Jurisdiction VOMS User

Adjust your Product Settings and Vaccine Settings page to reflect the volume change from 0.5mL to 0.1mL.

Product Settings

Vaccine	Product Name	CVX Code	NDC	Manufacturer	Outer Package Size	Presentation	Product Volume	Inactive	Delete
Smallpox monkeypox vaccine (National Stockpile)	JYNNEOS - Vaccinia, smallpox monkeypox vaccine live, PF	206	50632-0001-01	BN	10	Vial	0.1	<input type="checkbox"/>	<input type="checkbox"/>

Vaccine Settings

Vaccine	Cost	Min Order Qty	Max Order Qty	Contract	Dose Volume	State Purchase Order	Ordering Intention	Funding Source	Action
Vaccinia, Smallpox Monkeypox Vaccine Live, Pf Jynneos - Vaccinia, Smallpox Monkeypox Vaccine Live, PF BN 10 pack - VIALS NDC: 50632-0001-01 Display ID: SMAL-220	0.01	10	100 Value: \$1.00		0.10		ADU	PUB	<input type="checkbox"/> Direct Ship <input type="checkbox"/> Inactivate <input type="checkbox"/> Restrict from Ordering



Step Two – Provider/VOMS User

Adjust your current MPX inventory by 5 times to accurately reflect the change from 0.5mL to 0.1mL. There are two adjustment reasons that can be used; both will achieve the same result.

1. Order Received – Dose Count Variance Multi-dose Vial
2. Correction – Correction of Invalid Entry

VOMS 1

Lot Numbers > Search/Add > Select Vaccine & Edit > Add Doses. Enter in the Number of Doses Added and Apply Changes.

Currently have 10 doses available. Add 40 doses. $10 \text{ doses} \times 5 = 50 \text{ doses}$

The screenshot shows a dialog box titled "Add (+) To Total Doses" with a close button (X) in the top right corner. It contains the following fields and options:

Reason for Change:	Dose Count Variance Multi-dose Vial
Date of Transaction:	08/18/2022
Number of Doses Added:	40
VFC PIN of other party (if applicable):	

At the bottom right of the dialog box are two buttons: "Cancel" and "Apply Changes".

VOMS 2

Inventory > Search/Add > Select Vaccine & Edit > Adjust. Enter the Actual Doses On Hand and Save. Currently have 10 doses available. Adjusting to 50 doses. $10 \text{ doses} \times 5 = 50 \text{ doses}$

The screenshot shows a dialog box titled "ADJUST QUANTITY" with a close button (X) in the top right corner. It contains the following information and fields:

Vaccinia, smallpox monkeypox vaccine live, PF - JYNNEOS - Vaccinia, smallpox monkeypox vaccine live, PF - 10 pack VIALS Doses Available: 10
Lot#: MPX3455 | Exp Date: 08/17/2025 | Funding Source: PUB

Actual Doses on Hand: Adjust:

At the bottom right are two buttons: "CANCEL" and "SAVE".

Decrementing Administered Monkey Pox Vaccines

After making the changes in step one and two to the Facilities inventory, a full dose of MPX is the equivalent of 0.1mL. This will support the majority of patients receiving the intradermal administration. For patients receiving the subcutaneous administration of 0.5mL; the inventory will need to be adjusted to show the 5 doses were decremented.

Step 3a – Provider User, Intradermal Administration

Document the administered MPX Vaccine on the patient record. For patients receiving the MPX intradermally, no changes will need to be made to the inventory.

Manual Entry

- Select the vaccine from your inventory
- Add the Site and Route of administration



- Dose Size will default to “Full Dose”
- Volume can be manually entered but is not tied to the inventory definitions on the Product Settings or Vaccine Settings pages.
- The “Full Dose” will decrement one dose from the inventory

Vaccination/Medicine Detail	
Vaccine:	Vaccinia, smallpox monkeypox vaccine live, PF
Date Administered:	08/15/2022
Invalid Vaccination:	Invalid SMALLPOX SHOT/READING: No immunization schedule found for this vaccine type.
Historical:	No
Confidential:	No
Manufacturer:	BERNA PRODUCTS CORPORATION
Lot Number:	345666NG
Lot Facility:	ABERDEEN FAMILY CLINIC
Funding Source:	PUB
Provider Noted on Record:	
Lot Noted on Record:	345666NG
Manufacturer Noted on Record:	
Vaccinator:	
Originating IIS:	
Organization:	12362 - ABERDEEN FAMILY CLINIC
Facility (Facility SIIS ID):	ABERDEEN FAMILY CLINIC (SIISCLIENT19)
Campaign:	
Tier:	
Anatomical Site:	Left Arm
Anatomical Route:	Intradermal
Dose Size:	Full
Volume (CC):	0.1
VFC Status:	(Unknown)
Adverse Reaction:	
District/Region:	
Dates of VIS Publications:	
Date VIS Form Given:	08/15/2022
Ordering Provider:	
Comments:	

Step 3b – Provider User, Subcutaneous Administration

Document the administered MPX Vaccine on the patient record. For patients receiving the MPX subcutaneously, changes will need to be made to the inventory.

Manual Entry

- Select the vaccine from your inventory
- Add the Site and Route of administration
- Dose Size will default to “Full Dose”
- Volume can be manually entered but is not tied to the inventory definitions on the Product Settings or Vaccine Settings pages.
- The “Full Dose” will decrement one dose from the inventory. Will need to adjust the inventory to ensure the full 5 doses (0.1mL = 1 dose, 0.5mL = 5 doses) are accounted for.

Vaccination/Medicine Detail	
Vaccine:	Vaccinia, smallpox monkeypox vaccine live, PF
Date Administered:	08/17/2022
Invalid Vaccination:	Invalid SMALLPOX SHOT/READING: No immunization schedule found for this vaccine type.
Historical:	No
Confidential:	No
Manufacturer:	BERNA PRODUCTS CORPORATION
Lot Number:	345666NG
Lot Facility:	ABERDEEN FAMILY CLINIC
Funding Source:	PUB
Provider Noted on Record:	
Lot Noted on Record:	345666NG
Manufacturer Noted on Record:	
Vaccinator:	
Originating IIS:	
Organization:	12362 - ABERDEEN FAMILY CLINIC
Facility (Facility SIIS ID):	ABERDEEN FAMILY CLINIC (SIISCLIENT19)
Campaign:	
Tier:	
Anatomical Site:	Right Arm
Anatomical Route:	Subcutaneous
Dose Size:	Full
Volume (CC):	0.5
VFC Status:	(Unknown)
Adverse Reaction:	
District/Region:	
Dates of VIS Publications:	
Date VIS Form Given:	08/17/2022
Ordering Provider:	
Comments:	

Decrementing Additional Monkey Pox Doses

The MPX inventory will need to be monitored closely. There are two scenarios when the MPX vaccine will need to be reconciled.

1. When an entire vial of MPX is not used (5 0.1mL doses), the remaining doses will need to be reconciled as wasted doses.
2. When a patient is administered the 0.5mL subcutaneously.



Step 4a – Provider User, Wasted Doses

When there are remaining 0.1mL doses in an open vial that can no longer be used, the Provider reconcile those wasted doses. It is recommended to the Wasted – Drawn up, Not Used reason to capture this.

VOMS 1

Reconcile Inventory										
Vaccine	Lot Number	Exp Date	Quantity on Hand	Physical Inventory	Adjustment (+/-)	Category	Reason	Funding Source	Inactive	Add Row
Vaccinia, smallpox monkeypox vaccine live, PF	MPX3455	08/17/2025	50	47	-3.0	Wasted	Drawn up, not used	PUB	<input type="checkbox"/>	+

VOMS 2

ADJUST QUANTITY

Vaccinia, smallpox monkeypox vaccine live, PF - JYNNEOS - Vaccinia, smallpox monkeypox vaccine live, PF | Lot#: 345666NG
 Exp Date: 2025-08-17 | Funding Source: PUB

DOSE(S):

ADJUST:

Total Doses Off: 0

3

Wasted

Drawn up, not used

ADD ANOTHER REASON

CANCEL

SAVE

Step 4b – Provider User, 0.5mL Administered

Because we have previously adjusted the inventory to reflect the 0.1mL dose, when a patient is administered the 0.5mL dose, additional doses will need to be reconciled to maintain accurate inventory. It is recommended to use the Administered – Administered but not linked to a vaccine reason to capture this.

VOMS 1

Reconcile Inventory										
Vaccine	Lot Number	Exp Date	Quantity on Hand	Physical Inventory	Adjustment (+/-)	Category	Reason	Funding Source	Inactive	Add Row
Vaccinia, smallpox monkeypox vaccine live, PF	MPX3455	08/17/2025	50	46	-4.0	Administered	Administered but not linked to a vaccine	PUB	<input type="checkbox"/>	+

VOMS 2

ADJUST QUANTITY

Vaccinia, smallpox monkeypox vaccine live, PF - JYNNEOS - Vaccinia, smallpox monkeypox vaccine live, PF | Lot#: 345666NG
 Exp Date: 2025-08-17 | Funding Source: PUB

DOSE(S):

ADJUST:

Total Doses Off: 0

4

Administered

Administered but not linked to a...

ADD ANOTHER REASON

CANCEL

SAVE