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Key Points Regarding Monkeypox Vaccine Updated 8/29/2022

HHS is working with Wisconsin to deploy the US Food and Drug Administration (FDA)-approved JYNNEOS vaccine.

Wisconsin is currently not pursuing the deployment nor use of the ACAM2000 vaccine.

The CDC recommends that JYNNEOS (also known as IMVAMUNE, IMVANEX, MVA) is used as an alternative to a ACAM2000 for primary orthopoxvirus vaccination and booster doses, in addition to use as preexposure prophylaxis against orthopoxvirus infection among persons at risk of such exposures.

The effectiveness of the JYNNEOS vaccine to the virus circulating in the current 2022 outbreak is unknown. To better understand the protective benefits of this vaccine during the current outbreak, data will be collected to help define JYNNEOS vaccine efficacy.

- The effectiveness of JYNNEOS against monkeypox is supported by clinical studies demonstrating a comparable immune response to ACAM2000 and animal studies.
- There are no data yet on the effectiveness of JYNNEOS for PEP, PEP++, or PrEP from the current outbreak. Although this is also true for ACAM2000, there is evidence that the precursor for ACAM2000 was effective in eradicating smallpox. Public health officials have concern about the lack of real-world effectiveness data for JYNNEOS, especially because a second dose of JYNNEOS was required in a clinical study to reach the same maximal antibody response seen with ACAM2000 at the 4-week timepoint, and a correlate of protection has not been defined (i.e., it is not known what level of antibodies is needed to prevent Monkeypox virus infection).

JYNNEOS is a live, attenuated, non-replicating vaccine produced from the strain Modified Vaccinia Ankara-Bavarian Nordic (MVA-BN), an attenuated, non-replicating Orthopoxvirus:

- Licensed by FDA in September 2019.
- JYNNEOS is indicated for prevention of smallpox and monkeypox disease in adults 18 years of age and older determined to be at high risk for smallpox or monkeypox infection.

On August 9, 2022, FDA granted Emergency Use Authorization (EUA) as a two-dose series for the following uses:

- Use in children under 18 years of age, administered subcutaneously. Under the emergency use authorization, JYNNEOS may be used in children and adolescents <18 years old. No minimum age is specified.
- Use in adults 18 years and older, administered intradermally.
Please note that HHS and DHS are not distributing ancillary supplies for monkeypox vaccine.

Vaccine Recommendations

Vaccination Eligibility Guidance Updated 9/29/2022
The Wisconsin Department of Health Services (DHS) is using a hub and spoke model to distribute JYNNEOS vaccine from the Strategic National Stockpile (SNS) to vaccinators for use to control the spread of Monkeypox. The overarching goal of the distribution strategy is to ensure quick and equitable access to vaccines for those disproportionately affected by monkeypox.

The amount of vaccine available nationally is limited. DHS is receiving a limited vaccine allocation from SNS. Clinics will receive vaccine as it becomes available and likely in small amounts.

As this outbreak changes, and vaccine allocations change, the vaccine eligibility guidance will change. Please follow current vaccine eligibility guidance for clinicians.

Eligibility guidance for use of JYNNEOS vaccine for Wisconsin clinicians:

- Wisconsinites who meet at least one of the following criteria are eligible for vaccination in Wisconsin:

- Known contacts who are identified by public health via case investigation, contact tracing, and risk exposure assessments (PEP).

- Presumed contacts who may meet the following criteria (PEP++):
  - People who know that a sexual partner in the past 14 days was diagnosed with monkeypox.
  - Gay men, bisexual men, trans men and women, any men who have sex with men, and gender non-conforming/non-binary individuals, who have had multiple sexual partners in the last 14 days.

- People considered to have elevated risk of exposure to monkeypox in the future (PrEP):
  - Gay men, bisexual men, trans men and women, any men who have sex with men, and gender non-conforming/non-binary individuals who:
    - Expect to have multiple or anonymous sex partners. This may include people living with HIV and people who take HIV PrEP because of increased risk of sexually-transmitted infections.
▪ Have new diagnosis of one or more nationally reportable sexually transmitted diseases (i.e., acute HIV, chancroid, chlamydia, gonorrhea, or syphilis).

  o People who attended or had sex at a commercial sex venue or an event or venue where there was known monkeypox transmission or exposure.

  o Sexual partners of people with the above risks

  o People who anticipate experiencing the above risks

• People in certain occupational exposure risk groups (PrEP):

  o Clinical laboratory personnel who perform testing to diagnose orthopoxviruses, including those who use polymerase chain reaction (PCR) assays for diagnosis of orthopoxviruses, including Monkeypox virus.

  o Research laboratory workers who directly handle cultures or animals contaminated or infected with orthopoxviruses that infect humans, including Monkeypox virus, replication-competent Vaccinia virus, or recombinant Vaccinia viruses derived from replication-competent Vaccinia virus strains.

  o Laboratory staff working with lesion swabs that may contain orthopoxviruses. This includes staff that handle swabs of lesions from suspect monkeypox cases or test for things other than orthopoxviruses, including Varicella zoster virus or Herpes virus. This also includes microbiologists that do standard bacterial cultures from these lesion swabs.

  o Certain health care providers working in sexual health clinics or other specialty settings directly caring for patients with sexually transmitted infections.

Note: As allocations increase, and the outbreak changes, the criteria of eligible individuals for vaccination will be updated.

People with a known or suspected exposure to a suspected or confirmed monkeypox case in the past 14 days should work directly with their local health department (LHD) to discuss obtaining the JYNNEOS vaccine as quickly as possible.

At this time, JYNNEOS is only approved for prevention of monkeypox. JYNNEOS should not be administered after someone tests positive following exposure.
Minimum Age Guidance for JYNNEOS New 8/29/2022

Under the emergency use authorization, JYNNEOS may be used in children and adolescents less than 18 years old. No minimum age is specified.

Screening and Consent
Give every patient who is 18 years of age and older receiving JYNNEOS vaccine subcutaneously a vaccine information sheet (VIS) (English and Spanish). Please visit immunize.org for VISs in additional languages.

Updated 8/12/2022 Give every patient who is 18 years of age and older receiving JYNNEOS vaccine intradermally or every patient who is 17 years of age and younger receiving JYNNEOS vaccine subcutaneously an EUA Factsheet.

Prior to vaccine administration, ensure the patient understands the risks and benefits of vaccination.

Please follow your organization’s typical policies and processes for gaining patient consent prior to vaccination. DHS does not require any specific method of obtaining patient consent.

DHS asks that you follow the vaccine eligibility guidance when determining who to vaccinate. Patients do not need to complete a physical copy of the DHS form, but please establish a protocol to ask patients the questions outlined.

Administration Fee Billing Updated 8/29/2022
Providers cannot charge a patient a fee for the vaccine itself. However, providers may charge the patient an administration fee or seek appropriate reimbursement from the program or plan that covers administration fee for the monkeypox vaccine, such as private insurance or Medicare/Medicaid reimbursement. Providers must administer JYNNEOS or ACAM2000 vaccine at no cost to the recipient regardless of the vaccine patient's ability to pay administration fees.

Vaccine Inventory Management Updated 8/29/2022

- Designate one or two people to manage inventory.
- Designate certain people who can remove inventory from the storage unit.
- Rotate inventory based on the earliest expiration date. Check expiration dates weekly, or as new allocations arrive.
  - The label expiration is set to expire at the end of the calendar month. For example, on the label, an expiration date of 9/22 would indicate September 30, 2022, as the expiration date.
- Keep the doses in their original packaging or amber colored bag.
  - If you need to split a box, place doses in an amber colored bag and make a copy of the lot number, NDC, and expiration date. Store the copy in your storage unit with the first doses in the amber bag.
- Limit splitting boxes.
- Inventory in WIR must be kept up to date.
- Given the current vaccine supply issues, it is recommended that you use an appointment-based system (versus open walk-in clinics) to ensure that you do not need to turn many individuals away due to demand outstripping vaccine supply.
- Create a waitlist of those interested in the event leftover vaccine is available. Ensure that those at high-risk groups are prioritized.
  - Leftover vaccine can be given to anyone eligible for vaccine according to DHS or CDC guidelines.
  - While healthcare workers and public health staff are not eligible for PEP++ and are not recommended that they be prioritized for vaccination, administering leftover vaccine that would otherwise be wasted is allowed.

Instructions for Flipping Off Cap
Follow the instructions from the JYNNEOS manufacturer for how to flip off the cap.

Second Dose Allocations
Approved vaccinators can administer all vaccine allocated as first doses and should not hold any supply back as second doses. However, JYNNEOS is still a two-dose series and vaccinators should work with individuals to schedule second dose appointments as vaccine supply allows. People should receive the second dose no sooner than four weeks after the first dose. This strategy aims to provide some level of protection against monkeypox to as many people as possible by allowing vaccinators to not hold back any available vaccine.

Recalling Patients for Their Second Dose
Ensuring patients receive two doses of JYNNEOS vaccine is important for ensuring they are fully protected. Clinics should implement systems to support and remind patients of their second dose. Below are suggestions for ensuring patients return.

- Provide counselling and education about the importance of completing the two-dose series on-time for the best protection.
  - Patients need to know that they are not fully protected until 14 days after their second dose.
  - They should continue to take precautions against monkeypox during this time.
- Collect contact information at the time of the first dose and let patients know they will receive reminders from your clinic and how they can expect to receive reminders (for example, tell them to check their electronic medical record, or someone from the clinic will reach out).
- Send reminders for patients to come in by using phone, email, text or mailed letters in advance of the appointment in the patient’s preferred language.
• Use whatever communication method is most effective and/or the preference of your patients.
• Patients who missed second dose appointments or are over-due should be contacted and rescheduled immediately.
• Learn how to use WIR to support your reminder efforts by reviewing the WIR Reminder/Recall reports handout.
• Important: Work with your organization and programs in your area to ensure structural issues such as transportation, language, childcare, and time from work are not barriers to receiving the vaccine.

Redistribution
In general, healthcare providers cannot redistribute monkepox vaccine to other healthcare providers. If there are questions about redistribution, or if a healthcare provider has extra vaccine, please email DHSMonkeypoxVaccine@wi.gov.

JYNNEOS Vaccine Storage
• New 8/3/2022 Review the CDC’s JYNNEOS Smallpox and Monkeypox Vaccine Storage and Handling Summary.
• Keep frozen at -25°C to -15°C (-13°F to +5°F).
• JYNNEOS is light sensitive. Store in the original package or an amber bag to protect from light.
  • If storing in an amber bag, copy the expiration date, lot number, and NDC and store it with the bag.
• Do not re-freeze a vial once it has been thawed.
• Once thawed, the vaccine may be kept at +2°C to +8°C (+36°F to +46°F) for 8 weeks.
  • Please note that clinics should follow the storage guidance in the “Dear Provider Letter”
• Do not use the vaccine after the expiration date.
  • Note the expiration date is not shown on the individual vial
  • You can validate the expiration dates on the HHS website.

Storage Temperature Excursions
As vaccine arrives at your clinic, please verify the vaccine temperature was maintained throughout the delivery process.

All temperature excursions—both enroute to your clinic or in your clinic’s storage unit—must be reported to the manufacturer to determine vaccine viability. DO NOT use vaccine that has experienced a temperature excursion until viability has been determined.

Steps to determine viability
1. Quarantine the vaccine in your storage unit and mark “do not use” until you receive a determination report from the manufacturer.
2. Contact Bavarian Nordic at toll-free phone 1-800-675-9596.
   a. General questions on temperature excursions can be sent to
      DHSMonkeypoxVaccine@wi.gov
3. If the determination report indicates the vaccine is viable, it is safe to store, handle, and administer the vaccine per usual.
   If the determination report indicates the vaccine is not usable (not viable), remove from your storage unit and dispose of it according to your organization’s policies, and report the wasted vaccine to WIR (see steps in the following section).

Report Wasted Vaccine in WIR
Clinics must account for all doses of vaccine. If you have wasted vaccine, you will need to modify the quantity in WIR for the respective lot number.

Step 1. Select the vaccine/lot in your inventory

<table>
<thead>
<tr>
<th>Trade Name</th>
<th>Lot Number</th>
<th>Inv On Hand</th>
<th>Active</th>
<th>Public</th>
<th>Exp Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>JYNNEOS</td>
<td>FDP00003</td>
<td>55</td>
<td>Y</td>
<td>Y</td>
<td>08/31/2023</td>
</tr>
</tbody>
</table>

Step 2. Under **Modify Quantity On Hand**
- Select the **Reason** of “Doses Wasted”
- Select the appropriate **Waste Reason**

Step 3. If the **Waste Reason** is “Other” you will be provided a field **Brief Description** in which you will need to enter in the reason.

**Brief Description:**

Inventory in WIR Sites
- The hubs will transfer JYNNEOS vaccine to the site with the correct PIN; clinics should leave their JYNNEOS inventory in the site associated with their WIR PIN.
- Clinics should not create a “new site” within WIR for monkeypox vaccine.
- Do not transfer inventory to another existing site that does not have a PIN.
- If clinics create a “new site,” DHS loses visibility of the inventory. Those doses also won’t be accounted for reporting on statewide inventory on hand.
Selecting Correct Dosage in WIR for ID/SQ New 8/29/2022
You can setup your inventory in WIR by adjusting the lot number and dose size to help you identify the dose size when entering an immunization directly in WIR. Once the lot is depleted you will change the lot number back to what you the correct lot number. For more information, please review the WIR Inventory Management training.

Documenting a Repeated Dose in WIR New 8/29/2022
The first administration is considered "partially administered." Within WIR, enter the immunization on the client record. Next on the “Edit Immunization” page, you will check box next to “Partial Dose”. The final step is to record the completed dose.

Vaccine Safety
Vaccine Adverse Event Reporting System

Report all adverse events to the Vaccine Adverse Event Reporting System (VAERS).

- VAERS is the nation’s passive vaccine safety surveillance program that serves as a national early warning system by helping to detect unusual or unexpected reporting patterns of adverse events for vaccines.
- VAERS is co-managed by CDC and the U.S. Food and Drug Administration (FDA). It can receive reports from anyone, including patients, parents, caregivers, and health care providers. Health care providers are required to report certain adverse events that occur after vaccination. VAERS is not designed to identify cause and effect. If an adverse event is reported to VAERS, that doesn’t mean that the vaccine caused the adverse event. Instead, the system allows detection of potential safety concerns that might need further investigation.
- These adverse event reports are studied by vaccine safety experts who look for previously unobserved adverse events, or changes in patterns of reporting of adverse events after people receive a particular vaccine.
- Instances of a wheel not forming after intradermal vaccine administration should be reported to VAERS.

Contraindications

Contraindications for JYNNEOS vaccine include severe or immediate reaction to any component of the vaccine (e.g., gentamicin, ciprofloxacin, egg protein, benzonase). For complete information, please read the package insert and the ACIP recommendations.

Vaccination Strategies
Please review CDC’s Vaccine Strategy webpage. Note: ACIP recommendations that predate this outbreak are unchanged to use JYNNEOS or ACAM2000 as PrEP specifically for people in certain occupational risk groups.
Monkeypox vaccine and the Public Readiness and Emergency Preparedness (PREP) Act

The PREP Act declaration for Smallpox Countermeasures includes orthopox viruses, (e.g. monkeypox). See the medical countermeasures amendment.

The PREP Act declaration was issued in 2008, amended in 2016, and remains in effect.

If a provider is a qualified person under the PREP Act declaration, they are covered with they administer the vaccine as required under either the FDA license or Emergency Use Authorized (EUA) issued August 9, 2022, which includes intradermal and subcutaneous administration.

Personal Protective Equipment in Healthcare Settings
Please review CDC’s infection prevention and control webpage for information about personal protective equipment and other infection control guidance.

Important: Reducing Stigma in Monkeypox Communication
All clinic staff who interact with patients should be trained on communication techniques that reduce stigma. At minimum, please review the CDC’s “Reducing Stigma in Monkeypox Communication and Community Engagement” document with your staff and provide additional training and support as needed.
### JYNNEOS Vaccine Reference Table

<table>
<thead>
<tr>
<th>Brand Name and Manufacturer</th>
<th>JYNNEOS™/Imvamune/Imvanex (Smallpox/Monkeypox Vaccine, Live, Non-replicating) Bavarian Nordic A/S</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDC</td>
<td>50632-001-02 (carton) and 50632-001-01 (vial)</td>
</tr>
<tr>
<td>Indication(s) and Intended Population(s)</td>
<td>Indicated for prevention of smallpox or monkeypox disease in adults 18 years of age and older determined to be at high risk for smallpox or monkeypox infection</td>
</tr>
<tr>
<td>Usage for Pediatric Population</td>
<td>Use in younger populations requires submission of a single-use Expanded Access Investigational New Drug (EA-IND) (&quot;Compassionate Use&quot;) application</td>
</tr>
<tr>
<td>Dosing Regimen or Schedule</td>
<td>2-dose vaccine series (full protection is anticipated 2 weeks following 2nd dose)</td>
</tr>
<tr>
<td>Minimum Intervals</td>
<td>28 days apart</td>
</tr>
</tbody>
</table>
| Warning and Precautions | **Severe Allergic Reactions:** Appropriate medical treatment must be available to manage possible anaphylactic reactions following administration of JYNNEOS.  
**Altered Immunocompetence:** Immunocompromised persons, including those receiving immunosuppressive therapy, may have a diminished immune response to JYNNEOS. |
| Post-Exposure Prophylaxis (PEP) | The sooner an exposed person gets the vaccine, the better. ACIP recommends that vaccine be given within 4 days from date of exposure to prevent onset of disease. If given between 4–14 days after date of exposure, vaccination may reduce symptoms of disease, but may not prevent the disease. |
| Efficacy | The efficacy of JYNNEOS to prevent monkeypox is inferred from seroconversion and immunogenicity that is noninferior as compared with replicating orthopoxvirus vaccines. |
| Administration | Administer by subcutaneous (SQ) injection or intradermal (ID) for those 18 and older; allow vaccine to thaw and reach room temperature before use |
| Adverse Reactions | Injection site reactions such as pain, swelling, and redness |
| PPE | Standard for immunization |
| Reconstitution | Do not dilute |
| Dosing Volume | 0.5 mL each dose for SQ; 0.1 mL each dose for ID |
| Packaging | (20) vials (see image); ancillary supplies are not provided with vaccine |
| Storage: Unpunctured Vials | Shipped at -20°C and requires cold chain management; store frozen at -25°C to -15°C (-13°F to +5°F) until expiration date on vial label (or lookup here) or at 2-8°C for up to 8 weeks (this differs from the package insert – see Provider Letter) |
| Storage: Punctured Vials | N/A |
| Use-by Limits | Once thawed, hold at +2°C to +8°C (+36°F to +46°F) for 12 hours; do not refreeze |
| ACIP Recommendations | [https://www.cdc.gov/mmwr/volumes/71/wr/mm7122e1.htm](https://www.cdc.gov/mmwr/volumes/71/wr/mm7122e1.htm) |
| Package Insert | [https://www.fda.gov/media/131078/download](https://www.fda.gov/media/131078/download) |
| VIS | Distribute Vaccine Information Statement before vaccination |
| EUA Factsheet | Distribute Recipients and Caregivers EUA factsheet before vaccination |
| CPT Code | TBD |
| CVX Code | 206 |