# California Primary Care Association MPX Webinar

California Department of Public Health MPX Response Branch

Tuesday, August 23, 2022 4:00PM – 5:00PM



## Introductions

Leslie Amani, CDPH



## Agenda: Tuesday, August 23, 2022

No.	Item	Speaker	Time (PM)
1	Introductions and Resources	Leslie Amani (CDPH)	4:05 – 4:10
2	MPX Current Status	Akanksha Vaidya, M.D. (CDPH)	4:10 – 4:15
3	MPX Clinical	Akanksha Vaidya, M.D. (CDPH)	4:15 – 4:22
4	MPX Testing	Akanksha Vaidya, M.D. (CDPH)	4:22 - 4:30
5	MPX Treatment	Akanksha Vaidya, M.D. (CDPH)	4:30 – 4:37
6	MPX Vaccines	Tarek Salih, M.D. (CDPH)	4:37 – 4:45
7	Storage and Handling	Alan Hendrickson (CDPH)	4:45 – 4:50
Q&A and CPCA Wrap-up		4:50 - 5:00	

## Resources

Leslie Amani, CDPH



#### Resources for MPX Vaccine Providers

Health Care Provider Page <u>Information for Health Care Providers</u>

Communications Toolkit Monkeypox (ca.gov)

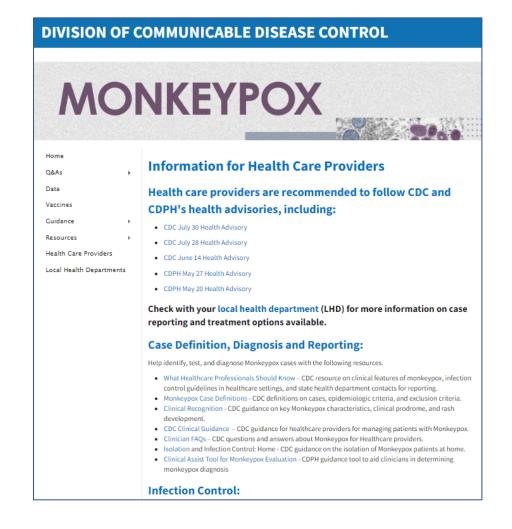
Public Materials Protecting Yourself and Your Community (ca.gov)

Isolation Guidance MPX Home Isolation Guidance for the General Public (ca.gov)

Find support for your community with the latest Monkeypox mitigation tools. Please connect with your <u>Medical and Health Operational Area Coordinator (MHOAC)</u> for contract tracing resources and assistance.

## CDPH Monkeypox Page: Vaccine Resources

- Vaccine Q&A
- Vaccines Page:
  - Resource Links
  - Allocation Process
- Local Health Departments Page:
  - \*PEP++ Guidance





#### **Communication Toolkits**

#### **CDPH Communication Toolkit Includes:**

- What is Monkeypox?
  - English and Spanish
- Fact Sheets
  - Arabic
  - Armenian
  - Cambodian
  - o Farsi
  - Spanish
  - o Chinese, simplified
  - Chinese, traditional
  - Tagalog
  - Vietnamese







#### **EZIZ MPX Vaccine Resources**

#### Includes:

- Intradermal
- Clinical guidance
- Vaccine information
- Storage and handling
- Standing orders
- Coding information
- Screening Checklist



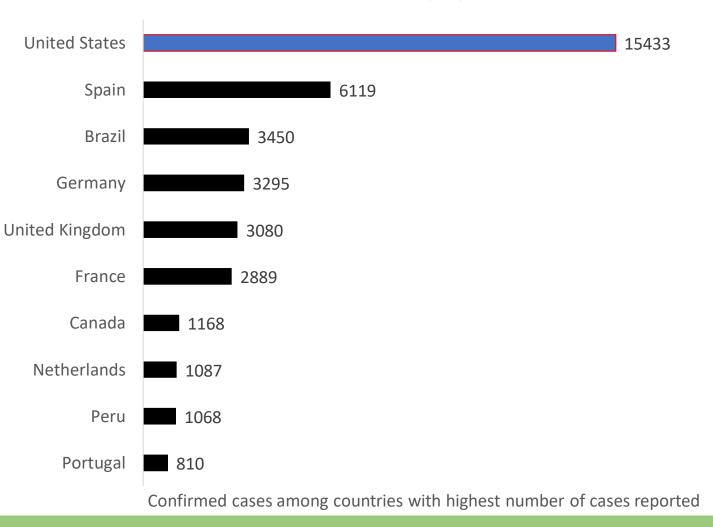
### **MPX: Current Status**

Akanksha Vaidya, M.D., CDPH



## Estimated Global MPX Cases as of August 23, 2022

Confirmed Cases as of 8/22/22



#### **Globally:**

42,954 confirmed cases as of 8/22/22

- From 94 countries\*
- 12 deaths\*\*

USA: 14,433 confirmed cases as of 8/22/22

- 52 states, territories & districts\*
- No deaths reported

## California MPX Cases as of August 23, 2022

#### **3065** confirmed/probable cases

+405 (+13.2%) increase since last report (8/18)

#### **36** local health jurisdictions

+ 0 since last report (8/18)

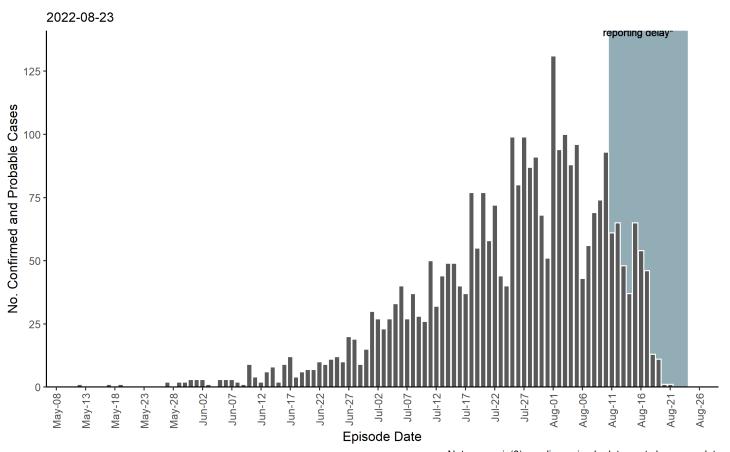
#### **81** hospitalizations

+ 20 since last report (08/18)

#### No deaths

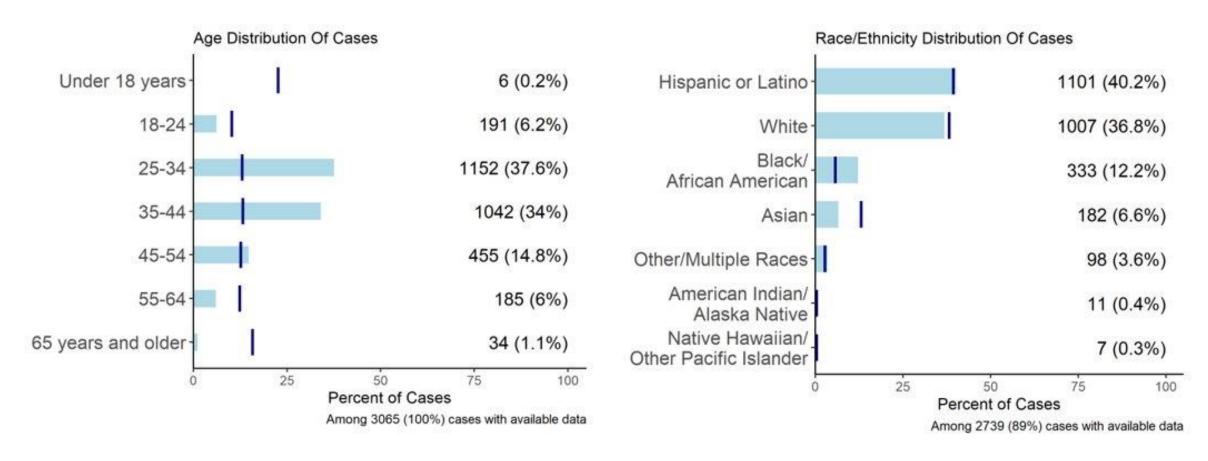
Hospitalized	n	Percent*
Yes	81	3.6
No	2178	96.4
Missing/Unknown	806	-

<sup>\*</sup>among cases with reported hospitalization status



Note:numeric(0) pending episode dates not shown on plot. \*illnesses that began during this time may not yet be reported.

## California MPX Cases as of August 23, 2022



77% of cases under 45 years old Median age = 36 years (range: 1-77) 6 cases <18 years old

= of CA population

#### MPX Cases by Gender and Sexual Orientation as of August 23, 2022

Gay, lesbian or same-gender loving

Heterosexual or straight

Bisexual

Diverse Term

Unknown

Gondar and Savual Orientation

Gender		
Male	n	%
Male	2958	97.4
Transgender Male	9	0.3
Female	n	%
Female	43	1.4
Transgender Female	14	0.5
Genderqueer/Non-Binary	10	0.3
Unknown	31	-

Sexual Orientation	n	%
Gay, lesbian or same-gender loving	1937	63.8
Bisexual	215	7.1
Heterosexual or straight	116	3.8
Different Term	19	0.6
Unknown	778	-

Gender and Sexual Orientation		0/
Male	n	%
Male	2958	97.5
Gay or same-gender loving	1906	85.6
Bisexual	210	9.4
Heterosexual or straight	95	4.3
Diverse Term	16	0.7
Unknown	731	-
Transgender Male	9	0.3
Gay or same-gender loving	2	40.0
Bisexual	3	60.0
Heterosexual or straight	0	-
Diverse Term	0	-
Unknown	4	-
Female		
Female	43	1.4
Gay, lesbian or same-gender loving	3	12.5
Bisexual	2	8.3
Heterosexual or straight	19	79.2
Diverse Term	0	-
Unknown	19	-
Transgender Female	14	0.5

50.0

0.0

25.0

25.0

Gender and Sexual Orientation cont.	n	%
Genderqueer/Non-Binary	10	0.3
Gay, lesbian or same-gender loving	7	100.0
Bisexual	0	-
Heterosexual or straight	0	-
Diverse Term	0	-
Unknown	3	-
Unknown	31	
Total	3065	

<sup>\*</sup>Percentages calculated out of all cases with available data

<sup>\*\*</sup>As sex assigned at birth was often not reported, counts of cases in cisgender categories could not be reliably distinguished among the "Male" and "Female" categories of data.

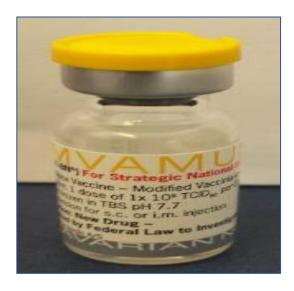
## **MPX Clinical**

Akanksha Vaidya, M.D., CDPH



## MPX Background and History

- Famous relative: Smallpox (variola virus)
  - Smallpox illness is severe
  - First vaccine
  - First disease eradicated
- Monkeypox thought of as a less deadly smallpox
- Prior U.S. MPX outbreak associated with pet prairie dog exposure / no human-to-human transmission





#### How is MPX Transmitted?

Monkeypox can spread to anyone through close, personal, often skin-to-skin, contact.

- **Direct contact** with rash, scab, or body fluids from a person with MPX (**most common**)
  - Sexual Transmission: Not traditional STI but sex involves close/intimate contact
  - o *Overall, not easily transmitted*. Generally, close physical contact exposure is described
- Indirect contact. i.e., touching objects such as clothing, bedding, or towels used by a person with MPX
  - Less common, sensitive to UV light and disinfectants
- Contact with respiratory secretions
  - Prolonged, face-to-face contact (less common)

## Signs and Symptoms: Classic Symptoms

Incubation period: Average 7-14 days (can range from 5-21 days)

Prodromal symptoms (flu-like symptoms) followed 1-3 days later by characteristic rash

Rash progression, **shortly after** prodrome:

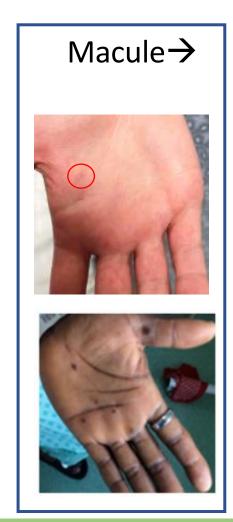
Macules → Papules → Vesicles → Pustules → Scabs

#### Rash presentation:

Tongue/Mouth → Face → Arms/Legs → Hands/Feet (including palms/soles)

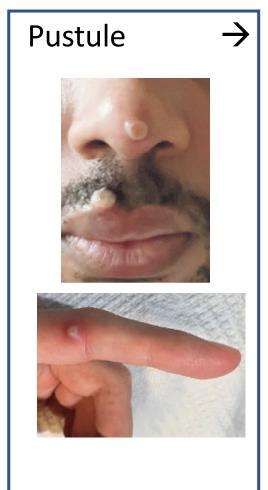
## Signs and Symptoms: Classic Symptoms

RASH DESCRIPTION: Well circumscribed, umbilicated lesions









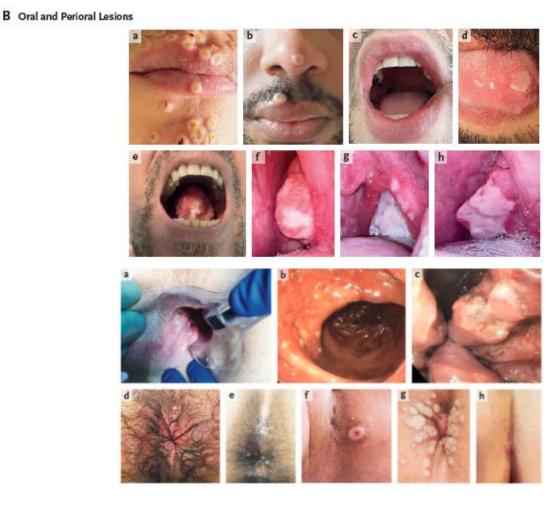


### **Current Cases**

- **Prodrome:** Mild or not occurring. Systemic symptoms may start at the same time as a rash.
- Rash location: Often occurring in the genital and perianal areas and not spreading
- Rash stages: Lesions at different stages may be present at the same time.
- Rash characteristics: Often painful, pruritic
- Other symptoms: Proctitis (anal pain/pruritis). Co-infection with sexually transmitted infections (STIs).

#### MPX Case Series from 16 Countries

- Median incubation period: 7 days (in 23 people with clear exposure)
- MPX DNA was detected in 29 of the 32 persons in whom seminal fluid was analyzed
- Among HIV negative, 57% using HIV PrEP
- **Tecovirimat** provided to 5%
- 13% Hospitalized; no deaths
- Serious complications:
  - Pharyngitis limiting oral intake(5) and
  - Myocarditis (2)



## CDC MMWR\* May - July 2022

- 1,195 cases described
- Among 358 men with sexual history information:
  - 94% reported sex or intimate contact with a man

#### • Symptoms:

- Rash: 100% (46% genital then face/arms/trunk)
- Top 5 most common other symptoms: fever, chills, lymphadenopathy, malaise, myalgia
- Among 334 persons with data on HIV status, 41% had HIV
- Severe Disease: 8% hospitalized, no deaths

## Diagnosis: When to Suspect Monkeypox

#### **CDC Suspect Cases:**

#### **New Characteristic Rash**

Note atypical presentation of rash, can appear similar to other STIs or VZV\*

OR

## Has prodrome symptoms + at least 1 Epi Criteria (within 21 days) and high clinical suspicion:

- Close contact with people with similar rash or confirmed monkeypox
- Close contact with individuals in a social network with monkeypox activity
- Travel to a country with confirmed monkeypox cases
- Contact with a dead or live wild animal or exotic pet

## Diagnosis: History and Exam

History of Present Illness:

Sequence of clinical manifestations

Social History:

- Travel history
- Sexual history
  - Close/intimate contact with men in at-risk social networks:
    - Connections through online websites or apps
    - Connections at social venues such as bars, parties or bathhouses
- Other Exposures
  - Any contacts with a similar rash

## Diagnosis: History and Exam

#### **Physical Exam:**

- Thorough skin exam
- Ensure oral mucosa and genital/perianal areas are also examined
- Scattered lesions may be present

## Diagnosis: Main Points

- High index of suspicion for Monkeypox in someone with:
  - New rash or
  - Symptoms and epidemiologic risk factors
- Monkeypox rash and symptoms may mimic other STIs
- Co-infections with STIs and monkeypox have been seen.
  - Testing for both monkeypox and other STIs if rash is not classic for MPX

## **MPX Testing**

Akanksha Vaidya, M.D., CDPH



# MPX Testing Widely Available Requires PCR Test of Swab from Rash

- Commercial lab testing has greatly expanded access to testing:
  - LabCorp, Aegis, Sonic, Mayo, Quest, Associated Regional and University Pathologists (ARUP)
- Public Health Labs
- Additional testing in CA: Stanford Medicine and Renegade Lab
- Nationwide capacity ~80,000/week

## Multiple Commercial Labs Started MPX Testing

#### The "five" CDC Commercial labs testing

- LabCorp, Aegis, Sonic Healthcare(Westpac), Mayo\*, using
   CDC Orthopox assay with CDC confirmation (all vs. 10% samples-TBD)
- Quest (7/13) using in-house test; testing hub in California
  - Real-Time PCR for non-variola orthopoxviruses and monkeypox virus (West African clade)
  - No need for CDC confirmation
- Turn Around Time: 2-5 days

#### When to use Public Health labs vs. Commercial labs

- Use commercial lab capacity whenever possible
- Local public health labs provide testing for
  - Under insured
  - High priority specimens (e.g., related to a cluster/outbreak, severe illness/hospitalized, pediatric) to ensure samples available for sequencing
  - LHJs should continue to approve specimens being sent to Local Public Health Labs.

## Different Specimens Types among Commercial Labs

- Dry swab vs. viral transport medium vs. both
- Note: Unroofing of lesion not needed
- 1 vs 2\* swabs per lesions
  - (\*2 specimens so that CDC confirms, need to confirm may go)
- Check specific website of commercial lab
- CPT 87798 (infectious agent detection by nucleic acid (DNA or RNA), not otherwise specified; amplified probe technique, each organism).

## Other Labs with MPX Testing

- Stanford Medicine's Clinical Virology Laboratory offers Orthopox and MPX PCR
  - o In addition to lesions, can also test blood and urine
- UC Hospitals developing tests: UC Davis, UC San Diego, UCLA, and UC Irvine

## For Monkeypox Testing, Use Lesion Swab Samples to Avoid Results: FDA Safety Communication

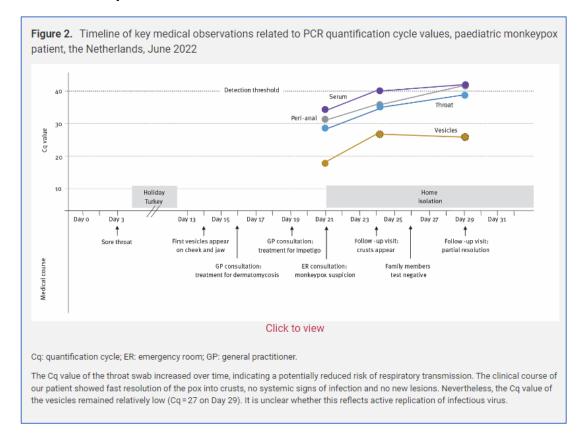
- Date Issued: July 15, 2022
- The U.S. Food and Drug Administration (FDA) is advising people to use swab samples taken directly from a lesion (rash or growth) when testing for the monkeypox virus. The FDA is not aware of clinical data supporting the use of other sample types, such as blood or saliva, for monkeypox virus testing. Testing samples not taken from a lesion may lead to false test results.



## Non-Lesion Testing...For the Future

- May be helpful, especially early in course of illness
- But NOT validated yet
- Literature suggests nonlesion material could be helpful (serum, throat, perianal)
- Studies underway

#### Case report child in Netherlands



## **MPX Treatment**

Akanksha Vaidya, M.D., CDPH



## Tecovirimat (TPOXX)

#### Antiviral medication with activity against MPX

 Not FDA-approved for MPX; available from CDC through an expanded access protocol

#### Consider TPOXX for:

- People with severe disease or at risk of severe disease (e.g., weakened immune systems, children < 8 years, pregnant or breastfeeding women, certain skin conditions)
- People with complications from disease (e.g., pain, proctitis, oropharyngitis), locations of concern (e.g., eye, genitals)
- Supportive care of symptoms should be offered to all MPX patients

## Supportive Care

- Skin lesions, pruritis: Calamine lotion, oral antihistamines
- Oral lesions: Magic mouthwash, benzocaine/lidocaine gels
- Genital and anorectal lesions:
  - Sitz baths, rectal lidocaine/hydrocortisone
  - Stool softeners
  - Anticipatory guidance: Seek care if bleeding, difficulty urinating, or retracting foreskin
  - Proctitis pain: May require opioids
- Nausea/vomiting
  - Anti-emetics

# Tecovirimat (TPOXX)

- Oral (preferred) and IV formulations, weight-based dosing with no age restriction
- Treatment course: 14-day course
- Treatment considerations:
  - Oral formulations must be taken with a high fat diet
- Few side effects: most common headache and nausea

# Tecovirimat (TPOXX): Adverse Effects and DDIs

#### Drug-Drug Interactions (DDIs):

- o Repaglinide: Hypoglycemia
- Midazolam: Decreased Effectiveness
- ARVs: NNRTIs (Rilpivirine, Doravirine) and CCR5 antagonist (maraviroc)
  - Consider dose increases during TPOXX and 2 weeks afterward
  - <u>Liverpool website</u> for details

#### Adverse Effects/Contraindications:

- Oral: Headache, nausea, abdominal pain, vomiting. Neutropenia in 1 study participant
- o IV:
  - Do not administer if CrCl< 30 (oral ok with CrCl < 30)
  - Caution in mild or moderate renal dysfunction
  - Infusion site pain, swelling, erythema

# MONKEYPOX

### Tecovirimat-Treated Patients per Patient Intake Forms\*

All United States Data

\*As of July 22, 2022

Characteristic	N (%)				
Underlying medical conditions	n=233				
HIV	90 (38.6%)				
Maligancy	1 (0.4%)				
Solid organ transplantation	2 (0.9%)				
Immunosuppressants or immunomodulators	1 (() 4%)				
Other immunosuppressed conditions	5 (2.2%)				
Pregnancy	0				
History of atopic dermatitis or exfoliative skin condition	1 (() 4%)				
Exposure to symptom onset and symptom onset to tecovirimat treatment timelines					
Median time from exposure to symptom onset (days)	6 (0-21)				
Median time from symptom onset to tecovirimat administration (days)	8 (1-36)				

# MONKEYPOX

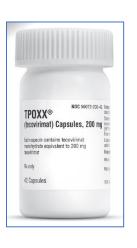
Tecovirimat-Treated Patients per Patient Intake Forms\*

All United States Data

\*As of July 22, 2022

Route of Tecovirimat administration	N=233		
Oral	208 (89.3%)		
IV	1 (0.5%)		
Unk/Not reported	24 (10.2%)		
Number of lesions at start of tecovirimat	N=233		
Less than 10	95 (40.8%)		
10-100	119 (51.1%)		
Great than 100	13 (5.6%)		
Unk/Not reported	6 (2.6%)		
Signs/symptoms during course of illness	N=233		
Fever	80 (34.3%)		
Lymphadenopathy	47 (20.2%)		
Malaise	14 (6.0%)		
Headache	14 (6.0%)		
Weakness	0		
Proctitis	14 (6.0%)		
Genital lesion(s)	13 (5.6%)		
Anal lesion(s)	82 (35.2%)		
Facial lesion(s)	42 (18.0%)		

# MPX Treatment: Access



- Clinicians should reach out to their Local Health
  Departments/ Medical Health Operational Area
  Coordinator (MHOAC) if the clinic is interested in being a
  new Tecovirimat provider.
  - LHJ/MHOAC places orders with CDPH.
- CDPH distributes to providers who have federal reporting requirements
- Over 3,200 treatment courses distributed to approximately 100 treatment locations (Aug 19, 2022)

# Tecovirimat (TPOXX) Regulatory Information

- CDC holds an <u>intermediate-size patient population EA-IND</u> for the use of Tecovirimat to treat MPX
  - o provides an umbrella regulatory coverage
  - o clinicians and facilities do not need to obtain their own INDs
- Simplified IND process posted to CDC website
  - Obtaining and Using TPOXX (Tecovirimat) | MPX | Poxvirus | CDC
- New option for Tecovirimat as PEP on a case-by-case basis
  - Immunocompromised
  - Allergy to Vaccine

# Tecovirimat (TPOXX) Regulatory Information

- CDC Institutional Review Board (IRB) determined that IND use for tecovirimat does not constitute research involving human subjects
  - Local IRB approval is not required
  - CDC IRB will provide a pre-signed reliance agreement if needed
- Clinicians are responsible for completing federally required documentation
  - Required forms: FDA 1572 (one per institution), informed consent (maintain in patient chart), Patient Intake Form (Form A)
  - Only informed consent before treatment (all other forms can be submitted to CDC within 7 days; including FDA 1572)

#### Clinical Information

Case Definition

#### General

- Signs and Symptoms UPDATED
- CDPH Isolation guidance UPDATED
- Considerations for Reducing MPX Transmission in Congregate Living Settings UPDATED
- MPX Frequently Asked Questions
- Technical Report: Multi-National MPX Outbreak, United States, 2022

#### Clinical Resources

#### For Clinicians

- Clinical Recognition UPDATED
- Guidance for Tecovirimat Use Under Expanded Access Investigational New Drug Protocol during 2022 U.S. MPX Cases UPDATED
- Information For Healthcare Professionals
- Clinician FAQs | MPX | Poxvirus | CDC
- Interim Clinical Guidance for the Treatment of MPX
- Clinical Considerations for MPX in Children and Adolescents
- Clinical Considerations for Treatment and Prophylaxis of MPX Virus Infection in People with HIV
- Clinical Considerations for MPX in People Who are Pregnant or Breastfeeding
- Obtaining and Using TPOXX (Tecovirimat)

# **MPX Vaccines**

Tarek Salih, M.D., CDPH



#### JYNNEOS Vaccine

#### JYNNEOS

- Given as two dose series 28-days apart
- Part of Strategic National Stockpile (SNS)
- Estimates to procure 5.5 million doses by mid-2023
- Produced by single company (Bavarian Nordic Denmark)
- Side effects of injection site reactions (pain/redness/swelling) common
- CDC allocating directly to federal entities, including VA, IHS, Bureau of Prisons, HRSA/selected FQHCs
- Contact your Local Health Jurisdiction (LHJ) if interested in becoming a vaccinator

#### Vaccine Considerations

- Post-Exposure Prophylaxis (PEP) for known close contacts of monkeypox cases who are identified by public health via case investigation, contact tracing, and risk exposure assessments.
- Post-Exposure Prophylaxis (PEP)++ for individuals with certain risk
  factors who are more likely to have been recently exposed to monkeypox even if
  they have not had documented exposure to someone with confirmed monkeypox.
- Pre-Exposure Prophylaxis (PrEP) for individuals at occupational risk of monkeypox according to <u>Advisory Committee on Immunization Practices (ACIP)</u> <u>guidance</u>, including laboratory workers who perform monkeypox testing. At this time, most clinicians in the United States and laboratorians not performing monkeypox testing, are not advised to receive monkeypox PrEP.

# Healthcare Worker (HCW) Vaccination

- Evidence so far is that the risk for transmission to HCWs is low.
- Supplies of vaccine are extremely limited and priority for vaccination is given to persons at risk due to community (non-healthcare) exposures.
- Infection control recommendations (including PPE\* recommendations) are available and should be followed.
- CDPH recommends following ACIP guidance related to PrEP for HCWs. Specifically
  - Research laboratory personnel working with orthopoxviruses;
  - o Clinical laboratory personnel performing diagnostic testing for orthopoxviruses; and
  - Orthopoxvirus and health care worker response teams designated by appropriate public health and anti-terror authorities.
- In general, it is not recommended to immunize HCWs.
  - LHJs can work with their local medical providers to offer PrEP to specific "response teams" that frequently care for persons who are at high-risk for monkeypox infection. (For example, clinicians in a sexual health or STI clinic who are responsible for swabbing lesions when suspected cases present for care.) Infection control recommendations should be reviewed and reinforced in this context.
- See CDPH MPX Vaccine FAQs

# JYNNEOS EUA: Intradermal Administration for > 18

- 8/9/22, FDA issued emergency use authorization (EUA) allowing an alternative regimen:
  - o **0.1mL given intradermally** (one-fifth of subcutaneous 0.5mL dose)
  - Two-dose schedule four weeks, 28 days, apart.
  - $\circ$  For individuals  $\geq$  18 years old at high risk of MPX infection.
  - Data reviewed included <u>clinical study</u> comparing subcutaneous and intradermal (one-fifth dose) administration
    - Similar immune response in both groups.
    - Intradermal administration resulted in *nearly all* of recipients with redness, firmness, itchiness or swelling at the injection site, but these side effects were manageable.

# JYNNEOS Vaccine: EUA for <18 years old

- 8/9/22, FDA EUA also allows for use of the vaccine in individuals younger than 18 years of age determined to be at high risk of MPX infection
  - For <18 years old, JYNNEOS is administered by subcutaneous injection.
- If a pediatric high-risk contact case is identified for whom <u>PEP</u>
   <u>JYNNEOS</u> is being considered, please contact local health
   department.

# Alternative and Standard Vaccine Regimens

Table 2. Vaccination Schedule and Dosing Regimens for JYNNEOS Vaccine					
JYNNEOS vaccine regimen	Route of administration	Injection volume	Recommended number of doses	Recommended interval between 1st and 2nd dose	
Alternative regimen					
People age ≥18 years	ID	0.1 mL	2	28 days	
Standard regimen					
People age <18 years	Subcut	0.5 mL	2	28 days	
People of any age who have a history of developing keloid scars	Subcut	0.5 mL	2	28 days	

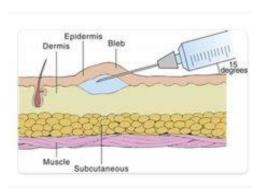
#### Intradermal Administration

#### Intradermal (ID)

Intradermal administration involves injecting the vaccine superficially between the epidermis and the hypodermis layers of the skin, typically of the volar aspect (inner side) of the forearm. This should produce a noticeable pale elevation of the skin (wheal). Please refer to <u>related resources</u>, <u>Including intradermal administration</u> teaching tools and the Preparation & Administration Summary for the General Population for further details on intradermal vaccine administration.

A person who presents for their second JYNNEOS vaccine dose who is still experiencing erythema or induration at the site of intradermal administration of the first vaccine dose (e.g., the forearm) may have the second dose administered intradermally in the contralateral forearm.

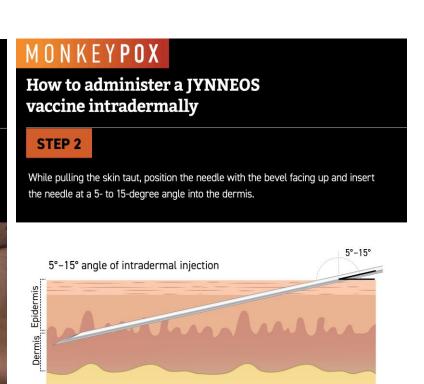




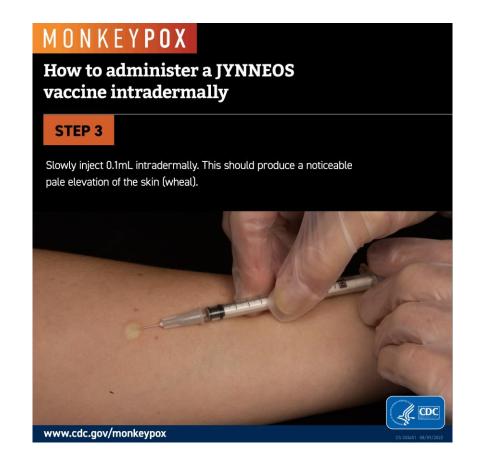
#### Intradermal Administration

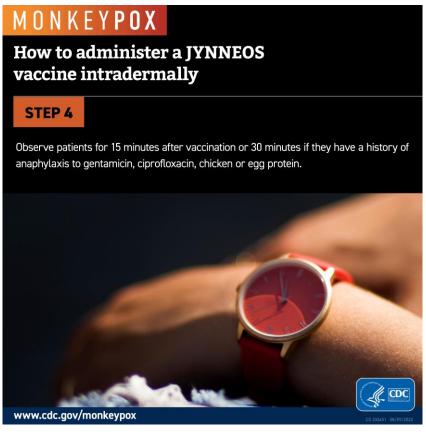






#### Intradermal Administration





#### JYNNEOS Precautions and Contraindications

- People of ANY age with a history of keloids should be given subcutaneous dosing of JYNNEOS.
- Do not administer JYNNEOS vaccine to individuals with a known history of a severe allergic reaction (e.g., anaphylaxis) after a previous dose of JYNNEOS.
- People with a history of anaphylaxis to vaccine component (gentamicin, ciprofloxacin, egg protein) are considered to have a precaution to vaccination.
  - Providers should discuss risks and benefits with potential recipients.
  - They may be vaccinated with a 30-minute observation period.

#### Coadministration with Other Vaccines

- Currently, there are no data on administering JYNNEOS vaccine at the same time as other vaccines.
- Because JYNNEOS is based on a live, attenuated non-replicating orthopoxvirus,
   JYNNEOS typically may be administered without regard to timing of other vaccines.
- This includes simultaneous administration of JYNNEOS and other vaccines on the same day, but at different anatomic sites if possible.
- People, particularly adolescent or young adult males, might consider waiting 4 weeks
  after orthopoxvirus vaccination (either JYNNEOS or ACAM2000) before receiving a
  Moderna, Novavax, or Pfizer-BioNTech COVID-19 vaccine, because of the observed
  risk for myocarditis and/or pericarditis after receipt of ACAM2000 orthopoxvirus
  vaccine.

#### 2<sup>nd</sup> Vaccine Doses

- At this time, given the scarce supply of JYNNEOS vaccine, LHJs and providers should prioritize first doses of vaccine for persons at risk.
- This strategy should be followed even if second doses are consequently administered at an interval greater than 28 days. There is no maximum time window for a valid second dose.
- As more vaccine doses are available in the coming weeks, LHJs and providers can expand offering second doses to those requesting them.
- In the meantime, if/when second doses are provided, when possible, prioritize persons who are immunocompromised or at high risk for complications of monkeypox.
- Individuals who are living with HIV (particularly those with CD4 count < 200/mm<sup>3</sup> or an opportunistic infection) or other conditions that cause immunocompromise should be prioritized for vaccination, including second doses.

# MPX Vaccine Equity Considerations

- There is a need to balance equity considerations with volume of vaccinations administered
- Event-based and mass vaccination activities may be less equitable, but also may reach those at immediate risk of exposure
- Primary care providers are well-placed to offer other recommended vaccinations to this population such as meningococcal, COVID-19 Vaccines, and influenza vaccines.
- Strategies that may support vaccine equity
  - Appointment-based vaccination activities; reserved appointments for priority groups
  - Proactive offer of vaccine to persons at high risk of exposure (e.g., sex workers)
  - o Partnerships as described on previous slide

# Resources

# MPX Documentation and Billing

- Providers may bill for MPX vaccine administration
- MPX-specific CPT codes are posted by the AMA: <u>Orthopoxvirus and monkeypox</u> <u>coding & Guidance</u>
- Providers may **not** charge for the MPX vaccine, as it is provided free of charge by the federal government

- Vaccine doses administered MUST be reported to the immunization registry as soon as possible, ideally on the day of administration.
- Please work with your vaccination partners to ensure they are documenting in a timely fashion!
- We are using the registry to track administration progress by county.
- My Turn is now available.
  - You may continue to record monkeypox vaccine doses into the CAIR Mass Vax module.



# What's Next in My Turn? - Release 29.1

New updates for My Turn Public and Clinic launched on August 15th.

#### **Release Highlights**



- ✓ Eligible patients who are 18 years and older can schedule Monkeypox vaccine appointments for both doses with a gap of 4 weeks between each dose.
- ✓ Patients can view and use the new Eligibility Interactive Chart (both Desktop and Mobile versions available) in English and 13 other languages to identify their eligibility for the available COVID vaccines.

#### **Release Highlights**

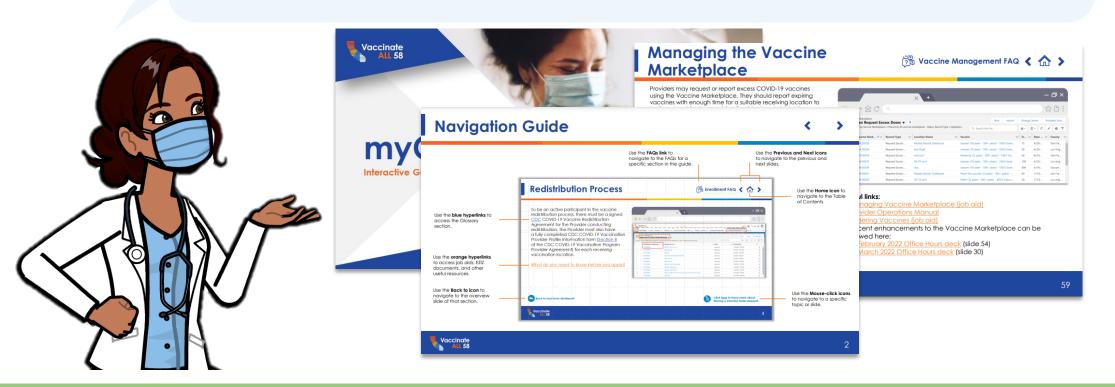


- Vaccine Administrators can identify an existing patient's records when creating a walk-in appointment which can reduce the chances of duplicate records.
- ✓ Walk-in appointment flow for COVID-19, Flu, and Monkeypox display new values for the Gender field
- Clinic Managers can create Monkeypox JYNNEOS (18+) vaccine supply, vaccine inventory, edit patient's IIS Monkeypox appointment records, filter, single edit, and cancel Monkeypox JYNNEOS (18+) **Appointments**



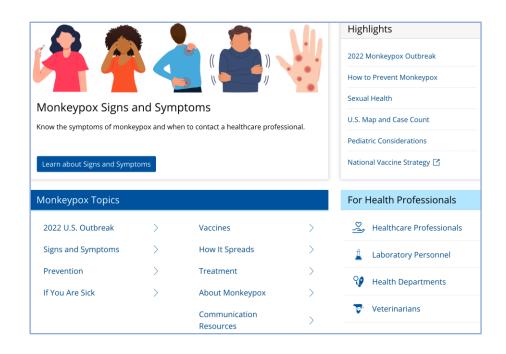
# View the Updated myCAvax Interactive Guide in the Knowledge Center

The latest version of the <u>myCAvax Interactive Guide</u> has been published to the Knowledge Center. The document now includes a quick navigation guide, an introduction to the Provider Operations Manual, and information on the Vaccine Marketplace and courier services. Explore the guide to learn more!



# **CDC** Monkeypox Resources

- CDC Vaccines
- JYNNEOS CDC Guidance Page
- CDC COCA Call 08/11/22
- JYNNEOS storage and handling
- JYNNEOS Standing Orders: <u>Alternative (ID)</u> and <u>Standard (SC)</u>
- CDC Clinician FAQs
- Intradermal Injection Video
- JYNNEOS Updated Package Insert (FDA)





# MPX Storage and Handling

Alan Hendrickson, CDPH



# JYNNEOS Storage and Handling (1)

- CDPH & Los Angeles receive JYNNEOS from the SNS
- CDPH receives and ships JYNNEOS as frozen product. (Please return the Credo Cube and DDL as soon as possible.)
- HHS procurement of JYNNEOS:
  - To date, ~ 500,000 vials have been procured
  - o 1 July, HHS placed an order for 2.5 million doses
  - 15 July HHS placed an additional order for 2.5 million doses
  - Deliveries expected through mid to late 2023

# JYNNEOS Storage and Handling (2)

- Bavarian Nordic, Denmark
- 0.5 mL multi-dose (5 dose) vial (20 vials/carton)
- Store in original package to protect from light



- Keep frozen at -20° C + 5° C
- Do not re-freeze a vial once it has been thawed
- Shelf Life/Beyond Use Dates (BUD):
- Expiry at frozen temperatures (-20°
   ± 5° C)
- Eight (8) weeks at refrigerated temperature (2° C to 8° C)
- One (1) hour at normal room temperature (20° C)

# JYNNEOS Storage and Handling (3)

- All JYNNEOS vaccines will be shipped in a Pelican Biothermal Credo Cube with a Digital Data Logger (DDL).
- Due to our limited supply of Credo
  Cubes, it is imperative to return all parts
  of the Cube, the Data Logger, and
  Glycol bottle back to the CDPH
  warehouse ASAP, within 24 hours of
  receiving the shipping label provided.



# JYNNEOS Storage and Handling (4)







See anything like this? Please report it.

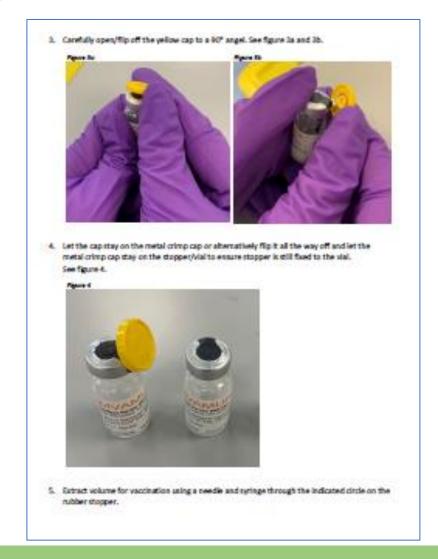
#### Medical.information\_US@bavarian-Nordic.com

US phone number: 1-844-4BAVARIAN (844-422-8274)

US fax number: 1-833-4BAVARIAN & cc <a href="mailto:mpoxvaccine@cdph.ca.gov">mpoxvaccine@cdph.ca.gov</a>

# JYNNEOS Storage and Handling (5) Instruction for flipping off cap





PDF with instructions re uncapping is in LHD SharePoint, LHJ Toolkit→ Pep & PrEP Vaccine Information folder

# Tecovirimat (TPOXX) Storage and Handling

#### **Oral TPOXX**

- Provided in 42 capsule bottle
- Store at 20°C to 25°C
- Excursions 15°C to 30°C are permissible
- Expiry not printed on the bottle. Will be provided with shipment or see <u>Lot Numbers and Expiration</u> <u>Dates for SNS-held Jynneos vaccine</u>



# Tecovirimat (TPOXX) Storage and Handling

#### **TPOXX Injection**

- Supplied in 30 mL single-dose vial
- Store at 2° C to 8° C
- 24 hours at 20° C to 25° C is permissible
- Expiry not printed on the vial. Will be provided with shipment or see <u>Lot Numbers</u> and <u>Expiration Dates for SNS-held oral</u> TPOXX (tecovirimat)



# Needle/Syringe Combinations

- CDC Recommendation: Tuberculin syringe with a 27-gauge needle, 1/4 to 1/2" but expanded to a "26 gauge or 27 gauge, 3/8", 1/4 to 1/2" needle with a short bevel to the syringe"
- The SNS\* is not shipping ancillary supplies, but they are available for purchase through normal supply channels
- Low dead-space needle/syringe combination required for 5 doses
- Providers are reporting administering 3 to 5 doses per vial
- Single dose or better = no wastage
- Visit <u>eziz.org/resources/monkeypox/#Q3</u> for storage and handling and so much more

#### Additional MPX Resources

- Information for Health Care Providers
- MPX: Get the Facts
- What is MPX?
- CDC FAQs
- Tecovirimat Guidance
- Tecovirimat: New Treatment Provider Process
- Laboratory Testing Guidance

### **Questions / Comments**

**CDPH MPX Team** 

Thank you!

