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Purpose	To provide guidance on monkeypox screening, infection prevention and control precautions, notifications and patient management.
Scope	NYC Health + Hospitals Health System *Please note, all guidance is subject to change as additional information becomes available.
Case Definitions	<ul> <li>Suspect Case         <ul> <li>New characteristic rash* OR</li> <li>Meets one of the epidemiologic criteria and has a high clinical suspicion<sup>+</sup> for monkeypox</li> </ul> </li> <li>Probable Case</li> </ul>
	<ul> <li>No suspicion of other recent Orthopoxvirus exposure (e.g., Vaccinia virus in ACAM2000 vaccination) AND demonstration of the presence of         <ul> <li>Orthopoxvirus DNA by polymerase chain reaction of a clinical specimen OR</li> <li>Orthopoxvirus using immunohistochemical or electron microscopy testing methods OR</li> <li>Demonstration of detectable levels of anti-orthopoxvirus IgM antibody during the period of 4 to 56 days after rash onset</li> </ul> </li> </ul>
	<ul> <li>Confirmed Case</li> <li>Demonstration of the presence of Monkeypox virus DNA by polymerase chain reaction testing or Next-Generation sequencing of a clinical specimen OR isolation of Monkeypox virus in culture from a clinical specimen</li> </ul>
	<ul> <li>Epidemiologic Criteria</li> <li>Within 21 days of illness onset: <ul> <li>Reports having contact with a person or people with a similar appearing rash or who received a diagnosis of confirmed or probable monkeypox OR</li> <li>Had close or intimate in-person contact with individuals in a social network experiencing monkeypox activity, this includes men who have sex with men (MSM) who meet partners through an online website, digital application ("app"), or social event (e.g., a bar or party) OR</li> <li>Traveled outside the US to a country with confirmed cases of monkeypox or where Monkeypox virus is endemic OR</li> <li>Had contact with a dead or live wild animal or exotic pet that is an African endemic species or used a product derived from such animals (e.g., game meat, creams, lotions, powders, etc.)</li> </ul> </li> <li>Exclusion Criteria <ul> <li>A case may be excluded as a suspect, probable, or confirmed case if:</li> <li>An alternative diagnosis* can fully explain the illness OR</li> <li>An individual with symptoms consistent with monkeypox does not develop a rash within 5 days of illness onset OR</li> <li>A case where high-quality specimens do not demonstrate the presence of Orthopoxvirus or Monkeypox virus or antibodies to orthopoxvirus</li> </ul> </li> </ul>

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	<sup>†</sup> Clinical suspicion may exist if presentation is consistent with illnesses confused with monkeypox (e.g., secondary syphilis, herpes, and varicella zoster).
	*The characteristic rash associated with monkeypox lesions involve the following: deep-seated and well- circumscribed lesions, often with central umbilication; and lesion progression through specific sequential stages—macules, papules, vesicles, pustules, and scabs.; this can sometimes be confused with other diseases that are more commonly encountered in clinical practice (e.g., secondary syphilis, herpes, and varicella zoster). Historically, sporadic accounts of patients co-infected with Monkeypox virus and other infectious agents (e.g., varicella zoster, syphilis) have been reported, so patients with a characteristic rash should be considered for testing, even if other tests are positive.
Summary	<ul> <li>Providers should be alert for patients who have rash illnesses consistent with monkeypox, regardless of patient's travel history or specific risk factors for monkeypox, and regardless of gender or sex of sex partner(s).</li> <li>In people with epidemiologic risk factors, rashes initially considered characteristic of more common infections (e.g., varicella zoster, herpes, syphilis) should be carefully evaluated for concurrent characteristic monkeypox rash and considered for testing.</li> <li>The rash associated with monkeypox involves vesicles or pustules that are deep-seated, firm or hard, and well-circumscribed; the lesions may umbilicate or become confluent and progress over time to scabs.</li> <li>Presenting symptoms typically include fever, chills, the distinctive rash, or new lymphadenopathy; however, onset of perianal or genital lesions in the absence of subjective fever has been reported.</li> <li>The rash associated with monkeypox can be confused with other diseases that are encountered in clinical practice (e.g., secondary syphilis, herpes, chancroid, and varicella zoster). However, a high index of suspicion for monkeypox is warranted when evaluating people with a characteristic rash, particularly for men who report sexual contact with other men and who present with lesions in the genital/perianal area or for individuals reporting a significant travel history in the month before illness onset or contact with a suspected or confirmed case of monkeypox.</li> </ul>
Clinical Recognition	<ul> <li>Key Characteristics for Identifying Monkeypox</li> <li>Lesions are well circumscribed, deep seated, and often develop umbilication (resembles a dot on the top of the lesion)</li> <li>Lesions are relatively the same size and same stage of development on a single site of the body (ex: pustules on face or vesicles on legs)</li> <li>Fever before rash</li> <li>Lymphadenopathy common</li> <li>Disseminated rash is centrifugal (more lesions on extremities, face)</li> <li>Lesions are often described as painful until the healing phase when they become itchy (crusts)</li> <li>Incubation period</li> <li>Inservice with monkeypox virus begins with an incubation period. A person is pot contagious during this</li> </ul>
	Infection with monkeypox virus begins with an incubation period. A person is not contagious during this period.

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Incubation	Deriod averages 7–14 days but can	range from 5–21	davs

A person does not have symptoms and may feel fine. . Prodrome Persons with monkeypox will develop an early set of symptoms (prodrome). A person may sometimes be

- contagious during this period. The first symptoms include fever, malaise, headache, sometimes sore throat and cough, and . lymphadenopathy (swollen lymph nodes).
- Lymphadenopathy is a distinguishing feature of monkeypox from smallpox. .
  - This typically occurs with fever onset, 1–2 days before rash onset, or rarely with rash onset.
  - 0 Lymph nodes may swell in the neck (submandibular & cervical), armpits (axillary), or groin (inguinal) and occur on both sides of the body or just one.

## Rash

Following the prodrome, lesions will develop in the mouth and on the body. Lesions progress through several stages before falling off. A person is contagious from the onset of the enanthem through the scab stage.



More Monkeypox Rash Photos Photo Credit: NHS England High Consequence Infectious Diseases Network









### **Enanthem Through the Scab Stage**

Stage	Stage Duration	Characteristics
Enanthem	l	• The first lesions to develop are on the tongue and in the mouth.
Macules	1–2 days	<ul> <li>Following the enanthem, a macular rash appears on the skin, starting on the face and spreading to the arms and legs and then to the hands and feet, including the palms and soles.</li> <li>The rash typically spreads to all parts of the body within 24 hours becoming most concentrated on the face, arms, and legs (centrifugal distribution).</li> </ul>
Papules	1–2 days	<ul> <li>By the third day of rash, lesions have progressed from macular (flat) to papular (raised).</li> </ul>
Vesicles	1–2 days	• By the fourth to fifth day, lesions have become vesicular (raised and filled with clear fluid).

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<b>Pustules</b> 5–7 d	-,		s have become pustular (filled w ally round, and firm to the touch

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	Carla	7.14 days	<ul> <li>opaque fluid) – sharply raised, usually round, and firm to the touch (deep seated).</li> <li>Lesions will develop a depression in the center (umbilication).</li> <li>The pustules will remain for approximately 5 to 7 days before beginning to crust.</li> </ul>
	Scabs	7–14 days	<ul> <li>By the end of the second week, pustules have crusted and scabbed over.</li> <li>Scabs will remain for about a week before beginning to fall off.</li> </ul>
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Process	Patient So	creening and F	Placement
	•	criteria. Rega who have ras specific risk fa	ess the patient for signs and symptoms, travel history, and epidemiological ardless of gender or sex of sex partner(s), providers should be alert for patients h illnesses consistent with monkeypox, regardless of their travel history or actors for monkeypox. sions are observed prior to registration, isolate patient immediately.

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	bathroom (Note: airborne infec conducting aerosol generating p Patients requiring intubation an	nkeypox. n, private examin tion isolation roc procedures). d/or extubation med in an AIIR a	nation room with dedicated

- If uncertain or if Varicella is being considered, patients should be placed on Airborne + Contact + Eye Protection precautions until ruled out.
- Keep door closed and minimize entry and exit.
- Transport and movement of the patient outside of the room should be limited to medically essential purposes. If the patient is transported outside of their room, they should use well-fitting source control (e.g., medical mask) and have any exposed skin lesions covered with a sheet or gown.
- Inform: Notify facility leadership and infection prevention and control department.

### Infection Prevention and Control & Personal Protective Equipment (PPE)

- Perform hand hygiene before and after all patient contact, contact with potentially infectious material, and before putting on and upon removal of PPE, including gloves. Use soap and water for at least 20 seconds or use alcohol-based hand rubs. If hands are visibly soiled, use soap and water.
- Adhere to Enhanced Droplet + Contact + Eye Protection Precautions.
- PPE used by healthcare personnel who enter the patient's room should include:
  - o Gown
  - o Gloves
  - Eye protection (i.e., goggles or a face shield that covers the front and sides of the face)
  - o NIOSH-approved particulate respirator equipped with N95 filters or higher
- Keep a log of all persons who care for or enter the rooms or care area of these patients.
- Do not extend the use of N95 respirator or eye protection if patient is suspected or confirmed to have monkeypox.

### **Laboratory Specimen Collection**

Effective 14 July, 2022, NYC Health + Hospitals will begin using LabCorp for Monkeypox testing. Test result reporting has been fully, electronically integrated from test order to test result reporting.

### Sample Requirements/Description

- EPIC Orderable- MONKEYPOX, DNA, PCR (SEND OUT) [LABC2102]
- Turn-around Time- 2-3 days upon receipt of samples to LabCorp
- Performance Monitoring- will be performed by System Lab Services daily
- Sample Routing-samples for testing will route through our Northwell/HHC CLNY lab on to LabCorp based on current workflows in place for each site, including Gotham.

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	Monkeypox, DNA, PCR
Method:	Polymerase chain reaction (PCR)
Specimen Requirements:	Two dry swabs (polyester, rayon or Dacron swab)
Supplies:	Two dry swabs in one sterile container
Collection Instructions:	Vigorously swab or brush the base of the lesion with a steril polyester, rayon or Dacron swab. Collect a second swab fror the same lesion. Insert both swabs into one sterile tube and break off the end of the swabs, if required, to tightly close the sample. <b>Do not add any transport media to the sample.</b> Two swabs should be submitted to ensure adequate material is sampled. If lesions with differing appearances are present, consider submitting an additional set of swabs on a separate order.
Specimen Stability:	Refrigerated 7 Days
	Frozen 30 Days City Public Health Laboratory (Note: all suspected congo basin PHL upon discussion with NYC DOHMH Provider Access Line), re
case samples will be sent to NYC I Instructions for Submission of Spe Laboratory:	City Public Health Laboratory (Note: all suspected congo basin PHL upon discussion with NYC DOHMH Provider Access Line), re
case samples will be sent to NYC I Instructions for Submission of Spe Laboratory:	City Public Health Laboratory (Note: all suspected congo basin PHL upon discussion with NYC DOHMH Provider Access Line), re crimens for Monkeypox Testing to the New York City Public Hea

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<ul> <li>Standard of hospital-g Pathogens concentra</li> <li>Soiled laus with stand laundry. S and never</li> <li>Activities s are prefer</li> <li>Managem procedure</li> </ul> Duration of Pre <ul> <li>Decisions NYC DOHI</li> </ul>	ent of food service items should als s.	viral pathogen c Q. Follow the mandling. I clothing) should n lesion material promptly contain that may dispersent incuuming should to be performed on precautions s e specialists and	laim. Products with <u>Emerging Viral</u> anufacturer's directions for d be handled in accordance that may be present on the ned in an appropriate laundry bag infectious material. be avoided. Wet cleaning method in accordance with routine hould be made in consultation wit infection prevention and control.
Vaccine and The Vaccine and the warranted. For Medical Co <u>https://www.co</u> For JYNNEOS™ <u>monkeypox.ht</u> Visitor Guidanc • Visitors to wellbeing • Decisions patient, is o T	erapeutics can be made available in puntermeasures Available for the Tr dc.gov/poxvirus/monkeypox/clinici vaccine information: <u>https://www</u> ml	e limited to thos nether the visitor y-case taking into	nd coordination with NYC DOHMH, hkeypox: html es/hcp/vis/vis-statements/smallpo se essential for the patient's care and r stays or sleeps in the room with th

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References	Infection Control: Healthcare Settings   Monkeypox   Poxvirus   CDC https://www.cdc.gov/poxvirus/monkeypox/clinicians/infection-control-healthcare.html		
	CDC COCA: What Clinicians Need to Know About Monkeypox in the United States and Other Countries (5/24122). <u>https://emergency.cdc.gov/coca/ppt/2022/052422_slides.pdf</u>		
	The USDOT June 2022 guidance: <a href="https://www.phmsa.dot.gov/transporting-infectious-substances/planning-guidance-handling-category-solid-waste">https://www.phmsa.dot.gov/transporting-infectious-substances/planning-guidance-handling-category-solid-waste</a>		
	NY State Monkeypox Health Advisory (July 8, 2022) https://health.ny.gov/diseases/communicable/zoonoses/monkeypox/docs/2022-07-08_han.pdf		

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# **Reviewed and Readopted Without Change**

Signature	Title	Date
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