

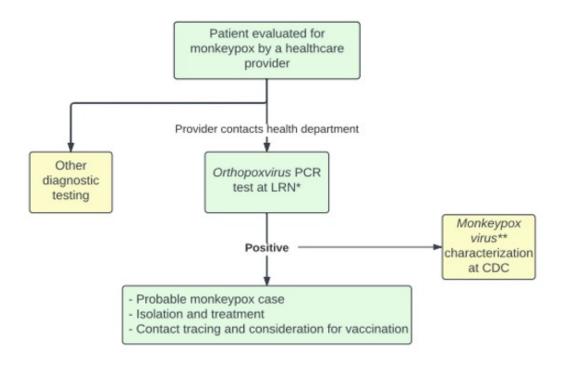
# **Monkeypox Testing Basics**

September 2022



# Public Health Laboratories (PHLs): Testing Algorithm

Diagnostic Process for Monkeypox Virus Testing

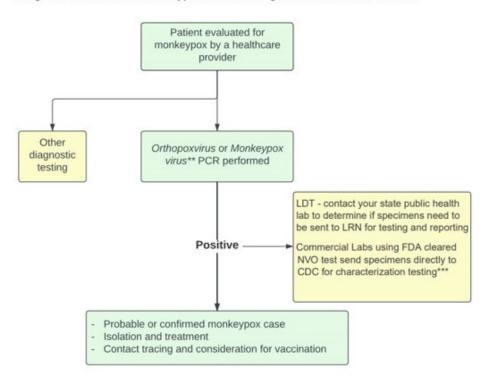


\*PCR - polymerase chain reaction; LRN - laboratory response network \*\*Monkeypox is a member of the orthopox group of viruses.



# Commercial Laboratories: Testing Algorithm

Diagnostic Process for Monkeypox virus Testing for Non-LRN Laboratories



# Current confirmed commercial labs:

- Labcorp
- Maye
- Aegis
- Quest
- Sonic



<sup>\*</sup>PCR - polymerase chain reaction; LRN - laboratory response network; LDT - lab developed test; NVO - non-variola orthopoxvirus; PHL - public health laboratory

<sup>&</sup>quot;Monkeypox is a member of the orthopox group of viruses

<sup>\*\*\*</sup>Unless specific criteria has been met and only a % of specimens need to be sent to CDC for characterization

## Acceptable Specimens: Bureau of Laboratories

- Dry swab of lesion.
  - Polyester, Nylon, or Dacron swabs with a plastic shaft
- Swabs can be collected from up to three lesions on different areas of the body.
  - Separate swab per collection site (i.e., one swab for lesion on arm and one for lesion on leg).
  - Up to two swabs per lesion (additional swab sent to CDC for monkeypox virus characterization).

- To collect, vigorously swab or brush lesion with dry swab.
  - If two swabs are collected from a lesion, they may be placed in the same container.
  - Ensure collection site is clearly labelled on specimen container (i.e., arm, groin, anus).
- Break off or cut the shaft and place swab in a sterile container (i.e., urine cup, conical tube, or 2 ml tube with screw cap).



## Other Acceptable Specimens

- Skin or crust from roof of vesicle (Bureau of Laboratories).
- Swab in Viral Transport Medium (VTM); will be sent to CDC for testing.
- Specimen types and collection instructions for commercial laboratories.
  - Confirm with the submission laboratory before collecting.



## Storage and Shipping: Bureau of Laboratories

- Refrigerate (2-8°C) or freeze (-20°C or lower) specimens within an hour after collection.
- If specimens are refrigerated send on cold packs and if frozen send on dry ice.
- Refrigerated specimens can be stored for up to seven days and frozen specimens may be stored for up to a month.
- Samples may be shipped to MDHHS BOL as Category B.
  - Check with your system's lab to gain assistance or reach out to your LHD if needed.



# **Requisition Forms**

| рсн                                                                           |                                       | CINIA/VARIOLA/POX VI<br>in Department of Health and<br>Bureau of Laborator<br>(Revised 3-22) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO Book Laboratory Records<br>Technical Information                           | ion: 517-335-                         | 3350 North Martin Luther Kir<br>59 Fax: 517                                                  | 7-335-9871<br>tp://www.michigan.gov/mdhhslab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SECTION 1                                                                     | Objection                             | Charles and Charles and Charles and                                                          | de la companion de la companio |
| Date Received at N                                                            | ADHHS                                 | MDHHS Sample Number                                                                          | Enter STARLIMS Code if known                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SECTION 2 - AGE                                                               | NCY SUBMIT                            | TER INFORMATION                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Return Results to:                                                            |                                       |                                                                                              | Telephone Number (24/7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Contact Person/Att                                                            | ending Physic                         | cian/Provider                                                                                | National Provider Identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SECTION 3 - PATI                                                              | ENT INFORM                            | IATION                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                               | Middle Initial                        | or Unique Identifier)                                                                        | Submitter's Patient Number, if applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Patient's City of Re                                                          | sidence                               |                                                                                              | Gender Atalo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| American Indiar                                                               |                                       |                                                                                              | ☐ Black or African American ☐ Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Date of Birth (MM/I                                                           | DD/YYYY)                              | Onset D                                                                                      | ate (MM/DD/YYYY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Multiple Stages Single (Same) 5 Patient Condition ( Toxic No SECTION 4 - SPEC | check one)<br>on-Toxic<br>CIMEN INFOR | False 11878                                                                                  | es of Feet<br>sion Approved by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DCH-1396 (Rev. 3-;                                                            | 22) Previous (                        | edition obsolete. 1                                                                          | Sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sample Number                                                                 | Submitted                             | (Check                                                                                       | All Types Submitted)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                               |                                       | ☐ Vesicular Material                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                               |                                       | ☐ Vesicle Scab                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                               |                                       | Lesion Swab                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                               |                                       | ☐ Biopsy Tissue – Specify \$                                                                 | Source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                               |                                       | Ocular Impression                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                               |                                       | Serum                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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- DCH-1396 form
  - Available: Michigan.gov/mdhhslab
  - Go to "Test Requests" and then select the form which is at bottom of list.
- Please complete as best as possible with two identifiers that match the samples (i.e., full name and DOB).



# Vaccinia/Variola/Pox Virus Test Requisition

|                                                                                                                                                                                                                                                                                                                                        | CCINIA/VARIOLA/POX VI<br>pan Department of Health an<br>Bureau of Laborator                                                                                                    |                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                        | (Revised 3-22)                                                                                                                                                                 |                                                                                                                               |
| PO Box 30335<br>Laboratory Records: 517-335-6<br>Technical Information: 517-335                                                                                                                                                                                                                                                        |                                                                                                                                                                                | 7-335-9671<br>lp://www.michigan.gov/mdhhslab                                                                                  |
| SECTION 1                                                                                                                                                                                                                                                                                                                              | gency retail house ritains                                                                                                                                                     |                                                                                                                               |
| Date Received at MDHHS                                                                                                                                                                                                                                                                                                                 | MDHHS Sample Number                                                                                                                                                            | Enter STARLIMS Code if known                                                                                                  |
| Date received at interests                                                                                                                                                                                                                                                                                                             | More to Sample redirect                                                                                                                                                        | Eller STACEMS Code il citati                                                                                                  |
| SECTION 2 - AGENCY SUBM                                                                                                                                                                                                                                                                                                                | ITTER INFORMATION                                                                                                                                                              |                                                                                                                               |
| Return Results to:                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                | Telephone Number (24/7)                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                | Fax Number                                                                                                                    |
| Contact Person/Attending Phys                                                                                                                                                                                                                                                                                                          | sician/Provider                                                                                                                                                                | National Provider Identifier                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                |                                                                                                                               |
| SECTION 3 - PATIENT INFOR                                                                                                                                                                                                                                                                                                              | MATION                                                                                                                                                                         |                                                                                                                               |
| SECTION 3 – PATIENT INFOR<br>Name (Last, First, Middle Initia<br>(Must match Specimen Label I                                                                                                                                                                                                                                          | or Unique Identifier)                                                                                                                                                          | Submitter's Patient Number, if applicable                                                                                     |
| Name (Last, First, Middle Initia                                                                                                                                                                                                                                                                                                       | or Unique Identifier)                                                                                                                                                          | Submitter's Patient Number, if applicable  Gender  Pemale Male                                                                |
| Name (Last, First, Middle Initia<br>(Must match Specimen Label I                                                                                                                                                                                                                                                                       | or Unique Identifier) (xactly)                                                                                                                                                 | Gender                                                                                                                        |
| Name (Last, First, Middle Initia<br>(Must match Specimen Label II<br>Patient's City of Residence<br>Race                                                                                                                                                                                                                               | or Unique Identifier) (xactiy)  Native Asian acific Islander White                                                                                                             | Gender   Female   Male   Black or African American   Other                                                                    |
| Name (Last, First, Middle Initia<br>(Must match Specimen Label II<br>Patient's City of Residence<br>Race<br>American Indian or Alaska II<br>Native Hawaiian or Other P                                                                                                                                                                 | or Unique Identifier) (xactiy)  Native Asian aclific Islander White tino Not Hispanic or La                                                                                    | Gender   Female   Male   Black or African American   Other                                                                    |
| Name (Last, First, Middle Initia (Must match Specimen Label if Patient's City of Residence Race American Indian or Alaska I Native Hawaiian or Other P Ethnicity Hispanic or La Date of Birth (MM/DD/YYYY) Description of Rash (check all Vesicular Macular/P                                                                          | or Unique Identifier) ixactiy)  Native Asian acific Islander White tino Not Hispanic or La Onset D that apply) apular Pustular                                                 | Gender Female Male Black or African American Other                                                                            |
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| Name (Last, First, Middle Initia (Must match Specimen Label ( Patient's City of Residence Race American Indian or Alaska I Native Hawaiian or Other P Ethnicity Hispanic or La Date of Birth (MM/DD/YYYY)  Description of Rash (check all Vesicular Macular/P Development of Rash (check a Multiple Stages                             | or Unique Identifier) ixactiy)  Native Asian acific Islander White tino Not Hispanic or La Onset D that apply) apular Pustular I I that apply) Lesions on Pale Lesions on Sole | Gender Female Male Black or African American Other tino ate (MM/DD/YYYY) Scabs Centrifugal Centripetal                        |
| Name (Last, First, Middle Initia (Must match Specimen Label II Patient's City of Residence  Race American Indian or Alaska I Assive Hawaiian or Other P  Ethnicity Hispanic or La Date of Birth (MM/DD/YYYYY)  Description of Rash (check a Macular/P  Development of Rash (check a Single (Same) Stage  Patient Condition (check one) | Native Asian acific Islander White tino Not Hispanic or La Onset D hat apply) Lesions on Pal Lesions on Sole Submiss                                                           | Gender Female Male Black or African American Other tino ate (MM/DD/YYYY) Scabs Centrifugal Centripetal ms of Hands ss of Feet |

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| Submitter<br>Sample Number | Quantity<br>Submitted | Sources<br>(Check All Types Submitted) |  |
|----------------------------|-----------------------|----------------------------------------|--|
|                            |                       | ☐ Vesicular Material                   |  |
|                            |                       | ☐ Vesicle Scab                         |  |
|                            |                       | Lesion Swab                            |  |
|                            |                       | Biopsy Tissue – Specify Source         |  |
|                            |                       | Ocular Impression                      |  |
|                            |                       | Serum                                  |  |
|                            |                       |                                        |  |
|                            |                       |                                        |  |

The Michigan Department of Health and Human Services will not exclude from participation in, deny benefits of, or discriminate against any individual or group because of race, sex, religion, age, national origin, color, height, weight, marital status, partisan considerations, or a disability or genetic information that is unrelated to the person's eligibility.

By Authority of Act 368, P.A. 1978.



#### Monkeypox Specimen Submission MDHHS -**Bureau of Laboratories**

#### Michigan.gov/mdhhslab

#### INSTRUCTIONS FOR SUBMISSION OF SPECIMENS FOR POTENTIAL POXVIRUS AND OTHER FEBRILE VESICULAR RASH ILLNESS

IMPORTANT: Specimens not properly labeled, test requisitions not completed or not matching specimen labels will not be tested.

NOTE: Suspected cases of smallpox must be immediately reported to the Michigan Department of Health and Human Services (MDHHS). Contact MDHHS laboratory director at 517-335-8063 and the MDHHS epidemiologisthealth officer at 517-335-8165 during normal business hours. After hours call 517-335-9030. Be prepared to provide pertinent patient information and emergency 24/7 contact information of the laboratory, attending, and consulting or ED physicians.

- 1. Freeze coolants upon receipt of the Unit
- 2. Complete the "Vaccinia/Variola/Pox Virus Requisition" on the reverse of these instructions. Place completed requisition in plastic bag provided to protect from moisture.
- 3. Collect the specimens listed below.
- a. Vesicular material: Open and remove the top of the lesion using a sterile scalpel or 26-guage needle. Place the vesicle skin "roof" in a dry, sterile 1.5-2.0 ml screw-capped plastic vial with O-ring. Cap vial to maintain relative sterility. Additionally, scrape the base of the blister with the blunt edge of the scalpel or a wooden applicator and smear the scrapings onto a microscope slide or touch a microscope slide multiple times to an open lesion. Repeat for 2 or more lesions. DO NOT add transport medium to these specimens.
- b. Swabs: Using a Dacron swab, scrub the base of a lesion or ocular site and place swab in a screwcapped plastic vial with Oring. Break off swab handle and screw on cap. DO NOT add transport
- c. Vesicular scabs: Remove the scab from 2-4 lesions using a sterile scalpel or 26-guage needle. Place in a sterile 1.5-2.0 ml screw-capped vial with O-ring, DO NOT add liquid to this vial.
- d. Biopsy tissues: Use a 3.5-4 mm punch biopsy device to sample an entire lesion. If possible, bisect the biopsied material using sterile scissors or scalpel. Place half the biopsied material in formalin for histopathologic and immunohistochemical evaluation. Place the other half of the biopsied material in a sterile 1.5-2.0 ml screw-capped plastic vial with O-ring. Repeat with at least one more lesion. DO NOT add transport medium to these vials.
- e. Ocular impression smears: Ocular impressions should only be collected by an ophthalmologist. Touch a microscope slide to the coular site. Prepare 2 to 3 slides. Allow slides to air dry for about 10
- Serum: Draw 10cc of blood into a plastic marble-topped or yellow-topped serum separator tube. Allow approximately 30 minutes for blood to clot. Then, if possible, centrifuge specimen to separate serum from blood clot and send only the serum. Testing requires at least 1 ml of serum
- 4. Label all specimens with the same name/unique identifier used on the test requisition. Indicate the source of the specimen (e.g. vesicle aspirate, roof, scab, throat etc.)
- 5. Tighten caps securely on all vials or tubes and apply parafilm to seal the caps. Place slides in appropriate, labeled containers. Wrap slide holder with parafilm to prevent accidental opening.
- 6. Refrigerate all specimens DO NOT FREEZE until ready to ship.

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- 7. When ready to ship, place properly labeled specimen vials, wrapped in absorbent material provided, into the aluminum screw-capped can and secure cap with tape. Place aluminum can into the cardboard shipping unit canister; seal the lid with tape and place into the UN 6.2 corrugated packaging.
- 8. Complete and apply the appropriate shipping label provided to the Styrofoam lined overpack box. Add the previously frozen ice substitute refrigerants to the overpack box and seal with tape.
- 9. Ship package in the manner directed by MDHHS see NOTE above.

NOTE: The shipper is responsible for being sure that their package is in compliance with the current shipping regulations.





# **Common Specimen Submission Errors**

- Specimen Label Two unique identifiers required
  - Full legal name, date of birth, patient number matches Test
     Requisition Form
  - Date of collection
  - Collection site (groin, face, mouth, etc.)
- Improper Packaging Category B (UN3373) packaging requirements
   ship cold
- Incomplete Test Requisition Form missing required information
  - Submitter information
  - Patient name
  - Date of birth
  - Date of collection
  - Specimen source lesion, scab, body location



#### Resources

- Preparation and Collection of Specimens | Monkeypox | Poxvirus | CDC
- Microsoft Word DCH 1396 55931 7 rev 03 2022 (1)

   (michigan.gov)



# **Questions or Comments**



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