Follow-up for Positive COVID-19 Cases and their Close Contacts

Tools for LBOHs

April 7, 2020

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MA Department of Public Health
Topics Today

• Updates
  • Twice Weekly Webinars – Tuesdays and Fridays at 11am – Join Hillary & Scott!
  • Public Health Volunteer Corps for Contact Tracing
  • COVID-19 Follow-up Introductory Webinar (Wednesday 4/8/2020)
  • Updated Infectious Period - 2 days prior to symptom onset

• Follow-up Reminders
• Hospitalized Patients
• Healthcare Workers
• Clusters
• MAVEN
• Questions from You
Fourth Weekly Webinar for LBOHs

Now Tuesdays AND Fridays at 11am!!

- Isolation of Cases and Quarantine of Contacts is the goal until that strategy changes/evolves.

- MAVEN is the main reporting source and where you should document your work.

- Focusing on Priority Activities

- Clusters in Facilities in your community need your help.

There is now a State Initiative to provide assistance for Index Case Interviews and Contact Notifications to LBOHs. **You can OPT-IN per MAVEN event in the Admin Question Package.**
COVID Assistance Requested Variable: Contact Tracers Update

Academic Public Health Volunteer Corps
A partnership between MDPH, MHOA, and MA Academic Institutions

Update to LBOH on April 7, 2020
Academic Partners working with MDPH

1. Boston University, School of Public Health
2. Harvard University T.H Chan School of Public Health
3. MCPHS University (Massachusetts College of Pharmacy and Health Sciences)
4. Northeastern University, Program in Public Health
5. Northern Essex Community College, Associates in Public Health
6. Regis College
7. Simmons University, Program in Public Health
8. Tufts University, School of Public Health
9. UMass Amherst, School of Public Health
10. UMass Lowell, Public Health Program
11. UMass Worcester, Medical School, Public Health Program
How to request APHV Volunteers

1. Every LBOH is different. Needs include contact tracing, communications, etc. Please discuss your needs with the Team Lead so we can assign you the right number of volunteers for different needs.
2. Team Lead acts as single point of contact/project manager with LBOH
As of Monday, April 6

<table>
<thead>
<tr>
<th>Component of Volunteer Assignment Process</th>
<th>Number of individuals</th>
</tr>
</thead>
<tbody>
<tr>
<td># of volunteers</td>
<td>1,600</td>
</tr>
<tr>
<td># of LBOH contacted via email and/or phone</td>
<td>84</td>
</tr>
<tr>
<td># of LBOH assigned a Team Lead</td>
<td>42</td>
</tr>
<tr>
<td># of volunteers deployed</td>
<td>330</td>
</tr>
</tbody>
</table>
What works well so far

Before you get your volunteers

- Be up front with language needs, staffing time, and schedules to help us connect to the right skills and number of volunteers

Agree to a set process with your team lead

- Talk with your team lead to coordinate **which cases** will go to the volunteers and **how you will communicate** that information

Share or coordinate services with neighboring communities based on your public health nurse(s)

Other ways volunteers are helping besides contact tracing

- Volunteers can help with communications, social media, policy, data, language needs - not only contact tracing. Talk with your team lead.
Thank you!

*We are open to feedback.*
COVID-19 Case Investigation Intro Webinar

• If you have newer staff or volunteers in your health departments that are stepping up to assist with COVID-19 outbreak response (Index Case Interviews and Contact Notifications), this will be a quick primer on these activities.
• This will briefly mention MAVEN but will be mostly focused on how to conduct case follow-up activities with the paper-based interviewing tools.
  • Appropriate for users with or without MAVEN access at this time.

• DATE: Wednesday, April 8, 2020 1:00pm

• Register to participate live.
• Webinar will be recorded.
Updates to the Infectious Period used for determining exposures.

- MDPH updated guidance on infectious period based upon new evidence and recommendations from CDC on possible transmission prior to symptom onset.
- MDPH will update the period of exposure risk from “onset of symptoms” to “48 hours before symptom onset.”
- When interviewing a confirmed case to determine if any contacts were exposed, include the two calendar days prior to symptom onset date.
Determining Infectious Period – for Case

• Obtain exact symptom onset date to determine Infectious Period.
  • Symptom onset date should be day of first noticed symptom
    • Often sore throat, cough, aches/myalgias or fevers.
  • Consider from two calendar days prior to onset until the last time they had contact with others (entered isolation)
  • Use a Calendar and ask what the case did each day, counting back 2 days from the onset of the first symptom.

• Symptom Onset = Day 0
• Infectious Period Start Date = 2 days prior to onset
• Infectious Period END date = when patient is released from isolation
  • Typically looking for the date they entered isolation (last contact with others)
Determining Infectious Period – for Case

- Example, a confirmed case developed a cough in the evening on Thursday, April 2.
  - Symptom Onset Date = Thursday, April 2.
    - (Do not worry about time of day. This full day is the onset.)
  - Infectious Period Start date = Tuesday, March 31.
    - We would be looking for any close contacts/exposures from Tuesday March 31st on.
  - Infectious Period End date = when case is no longer infectious (usually when they are discharged from isolation)
    - You can likely just go to when they entered isolation (no more contact with others).
Determining Quarantine Period – for Contact

- You must identify an exposure date to determine a quarantine period.
  - Exposure Date = Day Zero.
  - Quarantine Period is Day 1 through the end of Day 14, returning to activities on Day 15.
- Example:
  - Exposed on March 29th. (DAY 0)
  - Quarantine Period (Day 1- Day 14): March 30 – April 12.
  - Quarantine is Over (Day 15): April 13th.

- Notes:
  - Have a calendar handy. Count the days out loud.
  - Use full days, not times of day.
  - Contact will already be in Quarantine Period when you contact them. Make sure they start quarantine immediately.
Isolation vs. Quarantine

**ISOLATION**
- For **symptomatic** people.
- For Confirmed COVID-19 Cases.
- Prevents people from infecting others
- LASTS UNTIL THE PERSON IS NO LONGER CONTAGIOUS

**QUARANTINE**
- For **asymptomatic** people who have had an exposure (i.e. travelers from high risk areas, close contacts of confirmed cases, etc.)
- Prevents people from infecting others in the event they develop symptoms
- LASTS FOR 14 DAYS FROM LAST EXPOSURE. (If you don’t develop illness, you are then released.)
Follow-Up: Confirmed Cases

- Confirmed Cases
  - Interview Cases
    - Demographics
    - Clinical Information
    - Risk history (how they may have been exposed)
    - Identifying Close Contacts/Exposures of Concern
  - Answering Questions/Concerns
  - Ensuring Isolation is Followed
    - Use Isolation Guidelines Document

1. Acknowledge Case in MAVEN
2. Interview the Case
   1. Give them information on how to isolate and for how long.
   2. Make a Plan for Notifying their Contacts.
3. Update Maven
4. Set a reminder to check back in approximately 7 days later to determine exiting isolation.

Repeated check-ins are not expected.
Follow-Up: Contact Notification

- Create Contact Event in MAVEN
  - Share MAVEN Events with relevant jurisdictions.
- Contact Notification
- Notify Contacts of Exposures
  - Determine Quarantine
  - Establish Follow-Up Plan
- Answering Questions/Concerns
- Ensuring Quarantine is Followed
  - Use Quarantine Guidelines Document

Use MAVEN Tip Sheet

You do not need to conduct daily health monitoring of the contacts. Make sure they have a plan of action if they develop symptoms and then check back in with them at the end of quarantine period.

Use Quarantine Guidelines Document
Please Update MAVEN ASAP

- MDPH uses MAVEN to see if work is being done and to prioritize our efforts to assure follow-up.
- PLEASE acknowledge and update MAVEN right away when you are working a case.
  - Administration Question Package
    - Step 1: LBOH acknowledged: yes
    - Step 2: Investigation Started: yes
    - Step 3: LBOH/Agency Investigator: Name & contact info
- LBOHs should acknowledge their events, even when they are assigning them out to another person helping them.
- LBOHs should also put a note in if it’s going to be a while before entering follow up information (so that we know that follow up is ongoing).
Work on Clearing Out Old Cases from Workflows

- Contact events over 2 weeks old can be closed out.
  - Contact Monitoring Question Package
    - Contact Monitoring Status= Completed
  - Admin Question Package
    - Complete Steps 1-5 to move these along.

- Confirmed COVID Cases can be closed out when out of isolation & interview is complete.
  - Complete Data Entry in Question Packages
  - Contact Monitoring Question Package
    - Contact Monitoring Status= Completed
  - Admin Question Package
    - Complete Steps 1-5 to move these along.
Hospitalized Patients – Key Points

Transmission-Based Precautions: additional precautions are needed to prevent infection transmission.

- **Updated Guidance from CDC states that patients can be discharged from the hospital whenever clinically indicated.** Meeting criteria for discontinuation of Transmission-Based Precautions is not a prerequisite for discharge.
  - They don’t have to be out of their infectious period.

- **Hospitalized patients can discontinue isolation (transmission-based precautions) through either the Test-based strategy or the Non-test-based strategy.**
  - Test-based strategy is preferred for discontinuation of transmission-based precautions for patients who are
    - Hospitalized or
    - Severely immunocompromised or
    - Being transferred to a long-term care or assisted living facility

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    - Hospitalized or
    - Severely immunocompromised or
    - Being transferred to a long-term care or assisted living facility

Discontinuation of Transmission-Based Precautions and Disposition of Patients with COVID-19 in Healthcare Settings (Interim Guidance).
Hospitalized Patients – Discharging Details

If discharged to home:

- Isolation should be maintained at home if the patient returns home before discontinuation of Transmission-Based Precautions.
  - Decision to send home can be made with clinical team and public health if needed.
  - Consideration of the home’s suitability for and patient’s ability to adhere to home isolation recommendations.

If discharged to a long-term care or assisted living facility, AND:

- **Transmission-Based Precautions are still required:** they should go to a facility with an ability to adhere to infection prevention and control recommendations for the care of COVID-19 patients. Preferably, the patient would be placed in a location designated to care for COVID-19 residents.

- **Transmission-Based Precautions have been discontinued:** but the patient has persistent symptoms from COVID-19 (e.g., persistent cough), they should be placed in a single room, be restricted to their room, and wear a facemask during care activities until all symptoms are completely resolved or until 14 days after illness onset, whichever is longer.

- **Transmission-Based Precautions have been discontinued:** and the patient’s symptoms have resolved, they do not require further restrictions, based upon their history of COVID-19.

Discontinuation of Transmission-Based Precautions and Disposition of Patients with COVID-19 in Healthcare Settings (Interim Guidance).
Returning to Work for Healthcare Workers after COVID-19 Diagnosis

Use one of the below strategies to determine when HCP may return to work in healthcare settings

- **Test-based strategy.** Exclude from work until
  - Resolution of fever without the use of fever-reducing medications and
  - Improvement in respiratory symptoms (e.g., cough, shortness of breath), and
  - Negative results of an FDA Emergency Use Authorized molecular assay for COVID-19 from at least two consecutive nasopharyngeal swab specimens collected ≥24 hours apart (total of two negative specimens)[1]. See Interim Guidelines for Collecting, Handling, and Testing Clinical Specimens for 2019 Novel Coronavirus (2019-nCoV).

- **Non-test-based strategy.** Exclude from work until
  - At least 3 days (72 hours) have passed since recovery defined as resolution of fever without the use of fever-reducing medications and improvement in respiratory symptoms (e.g., cough, shortness of breath); and,
  - At least 7 days have passed since symptoms first appeared

- If HCP were never tested for COVID-19 but have an alternate diagnosis (e.g., tested positive for influenza), criteria for return to work should be based on that diagnosis.
Returning to Work for Healthcare Workers after COVID-19 Diagnosis

Return to Work Practices and Work Restrictions

After returning to work, HCP should:

• Wear a facemask at all times while in the healthcare facility until all symptoms are completely resolved or until 14 days after illness onset, whichever is longer.

• Be restricted from contact with severely immunocompromised patients (e.g., transplant, hematology-oncology) until 14 days after illness onset.

• Adhere to hand hygiene, respiratory hygiene, and cough etiquette in CDC's interim infection control guidance (e.g., cover nose and mouth when coughing or sneezing, dispose of tissues in waste receptacles).

• Self-monitor for symptoms, and seek re-evaluation from occupational health if respiratory symptoms recur or worsen.

Clusters

- A facility or location based event that you then link individual patient events to for tracking purposes.
  - LTCF, Rest Homes, Nursing Homes, Group Homes, etc.
- Finding one in MAVEN
- Link individual people events to the cluster
- We will have Healthcare Associated Infection expert Epis on Friday
MAVEN – Tips and Reminders
Communication Events in MAVEN

- Each town has a Communication event in MAVEN
- You have access to **update** your town/city information for contacting appropriate staff
- You can search for other jurisdiction(s)
Search for your Communication Event

City: Your town/city
Event: Communication
<table>
<thead>
<tr>
<th>Event ID</th>
<th>Name</th>
<th>Birth Date</th>
<th>Status</th>
<th>Event</th>
<th>Create Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>101623345</td>
<td>Communication</td>
<td>Lawrence</td>
<td>Open</td>
<td>Communication</td>
<td>11/06/2013</td>
</tr>
</tbody>
</table>
Communication Event

Event Summary

Basic Information
- Case ID: 101623345
- Event: Communication
- Name: Communication Lawrence
- Investigation Status: Open
- Linked Events/Contacts: 0 (View)
- Attachments: 1 (Add) (View)

Notifications
- Event/Status/Date/Type Notifier
  - Event Status: N/A
  - Event Date: 11/06/2013
  - Event Type: N/A
- Show Maven Status
  - Online/Offline Status: Online

Notes
- Scott Troppy [stroppy] - (Generic) 03/24/2020 06:29 AM
  PHN is out of town this weekend, 3/27-3/29 - please call Bob at the (1) communicable disease
- Scott Troppy [stroppy] - (Generic) 03/24/2020 06:24 AM
  Test Note
- Robert Morreale [rmorreale] - (Generic) 12/18/2015 09:55 AM
  bzahn - I will be out of the office 12/21/15-1/4/16, No MAVEN coverage
- Robert Morreale [rmorreale] - (Generic) 09/21/2015 03:19 PM
  bwhite26 - Brian will be away until September 24. Brian will be without MAVEN Coverage for Lawrence.
- Robert Morreale [rmorreale] - (Generic) 12/11/2014 02:05 PM
  dsmithclarke - Brian out until January 5th. No MAVEN coverage.
### Event Summary

#### Basic Information
- **Case ID:** 101623345
- **Event:** Communication
- **Name:** Communication Lawrence
- **Investigation Status:** Open
- **Linked Events/Contacts:** 0 (View)
- **Attachments:** 1 (Add) (View)

#### Notifications
- **Event/Status/Date/Type Notifier:** 3
  - Event Status: N/A
  - Event Date: 11/06/2013
  - Event Type: N/A
- **Show Maven Status:** 1
  - Online/Offline Status: Online

#### Question Packages
- **Question Package**
  - **LBOH Database**
  - **Person:** Communication Lawrence
MAVEN Help Section

How to Contact the Maven help desk in ISIS.
We are available M-F (9-5p.m.)

- ISIS Help Desk 617-983-6801
- ISIS Fax Number 617-983-6813
- isishelp@state.ma.us
  (do not email names or identifying information - use the MAVEN Event ID)
- Epi-of-the-Day and Epidemiologist on Call 617-983-6800
- Maven Change Request Document (please print, complete and out fax back to ISIS to request changes, enhancements, corrections to the MAVEN database)

MAVEN Online Help

- COVID-19 LBOH
- General Information
- Frequently Asked Questions (FAQs)
- Division of Global Populations (DGP)
- ePostcards/Webinars
- Foodborne Illness Complaint Resources
- Infection Preventionist Resources
- Anticoag
- Case Classification Manual
- Case Report Forms
- HIPAA Documents
LBOH COVID-19 Reports

• Created three new reports for you to manage your events
  • **COVID-19 LBOH Confirmed Case line list Report:** This report will display confirmed cases of COVID-19. Leave the Step 4 as blank and it will pull all confirmed cases. If you only want to see confirmed events that have been completed as Yes or No then choose those options.
  • **COVID-19 LBOH Contact line list Report:** This report will show you all the Contact cases of COVID-19 you have. Leave the Step 4 as blank and it will pull all contact cases. If you only want to see contact events that have been completed as Yes or No then choose those options.
  • **COVID-19 LBOH Requested Assistance line list Report:** This report will display events of COVID-19 you have answered the *COVID Assistance Requested* variable as either Yes or No.
To run a MAVEN Report

**Step 1:** Navigate to the MAVEN Dashboard and click on Reports from the Menu options.

**Step 2:** Select one of the three new reports for your town/city from Select Report dropdown.

**Step 3:** Enter **Start Date & End Date**

**Step 4:** Enter the Town/City you are running the report for: For the **Official City** field the town’s data **you need to enter in all caps**, for example – “Holyoke” needs to be entered as “HOLYOKE”.

**Step 5:** Click **Run Report** button.
COVID-19 LBOH Confirmed Case line list Report

Maven Disease Surveillance Suite - Training

Maven Reporting

Category: Custom Reports
Select Report: COVID-19 LBOH Confirmed Case line list Report
Description: COVID-19 Confirmed Case Line List. Your city/town name must be in all CAPS.

Report Period*: Date Range
Start Date: 01/01/2020
End Date: 04/08/2020

Official City*: LAWRENCE

Step 4 - Case Report Form Completed: Yes

Output Type: HTML

Run Report  Dashboard  Help
Training Site  Training Site  Training Site
Sharing Cases

• If my case works in another town, what should I do?
  • SHARE the MAVEN event with the appropriate jurisdiction so you both can communicate on the follow-up.

• Who should I Share with?
  • Share with the full LBOH TOWN MAVEN users. It is easier than picking individual users.
  • Make sure your contact information is in the ADMIN QP so any other LBOHs can talk to you if needed.
Searching for your Cluster/Outbreak Events

<table>
<thead>
<tr>
<th>Event ID</th>
<th>Create Date</th>
<th>Name</th>
<th>Status</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>100033810</td>
<td>04/07/2020</td>
<td>TEST_Cluster</td>
<td>Open</td>
<td>Novel Coronavirus (SARS, MERS, etc)</td>
</tr>
</tbody>
</table>
COVID Requested Assistance chosen as “Yes”
Death Reporting

- Sometimes You are the first to hear. MDPH is also trying to do a records match with Vital Records (death records).
  - MDPH will update the Outcome Variable and make a note about the records match when we discover a death.

- How to note deaths
  - Clinical Question Package
    - Outcome Variable (Died, Recovered)

- What kind of follow-up is needed?
  - Complete the Question Packages as best you can.
    - Risk Question Package (did they come from a LTCF, etc.)
  - Try to interview a Close Contact and do Contact Notifications

- Race/Ethnicity data is important.
- Working on a Report LBOHs can run to pull list of deaths.
Temperature

• What is a fever (for COVID-19 Response)

  • We generally define fever as greater than or equal to 38 C which is 100.4 F. For COVID, the PUI definitions specifically allow subjective fever.

  • 99.4 is definitely too low

  • We just used 100.4 for the state hospitals for HCP exclusion.
Vermont Graphic

| COVID-19: What is isolation, quarantine and self-observation? |
|---|---|---|
| **For whom?** | Isolation | Quarantine | Self-observation |
| People with COVID-19. | People with no symptoms and who | People with no symptoms and who | Other Vermonters who don’t have symptoms. |
| were in close contact with someone sick with COVID-19, or | are returning to Vermont from out of the state for anything other than an essential purpose. | | |
| **Do I stay home?** | Yes | Yes | Yes |
| **Can I go to work?** | No. Work at home if your job allows it and if you feel well enough. | No. Work at home if your job allows it. | Only essential employees should go to work. Others should work at home. |

## Vermont Graphic

### COVID-19: What is isolation, quarantine and self-observation?

<table>
<thead>
<tr>
<th></th>
<th>Isolation</th>
<th>Quarantine</th>
<th>Self-observation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Can I go outside</strong></td>
<td>No, not until you have recovered.²</td>
<td>No, not until 14 days have passed and no symptoms have appeared.³</td>
<td>Yes, but keep six feet away from others, except people you live with.</td>
</tr>
<tr>
<td><strong>Can I go out for</strong></td>
<td>No, not until you have recovered.²</td>
<td>No, not until 14 days have passed and no symptoms have appeared.³</td>
<td>Yes, but keep six feet away from others, except people you live with.</td>
</tr>
<tr>
<td><strong>groceries and</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>other essential</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>items like</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>medication?</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Do I stay in a</strong></td>
<td>Yes, until you have recovered.²</td>
<td>If possible, until 14 days have passed and no symptoms have appeared.³</td>
<td>No</td>
</tr>
<tr>
<td><strong>separate room in</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>my home?</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>What if I start to feel ill?</strong></td>
<td>Start isolation and call your health care provider.</td>
<td>Start isolation and call your health care provider.</td>
<td></td>
</tr>
</tbody>
</table>

YOUR Questions