COVID-19 Case Investigations
Tools for LBOHs

March 15, 2022

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MA Department of Public Health
MDPH Conducts COVID-19 Case Investigation Webinars – Now Every Other Week

- MDPH presents Every Other Week on Tuesdays 11:00-12:15
  - Updates in Guidance.
  - Troubleshooting MAVEN.
  - How to conduct case investigations and contact tracing in different settings.
  - Target Audience: Health Agents, Contact Tracers, and Public Health Nurses doing this work.
  - Spring 2022 we will begin to incorporate other disease investigation topics. Stay Tuned!

Webinar Schedule Update:
Every Other Tuesday @ 11am

New URL!

MAVEN Help has Guidance Documents and Previous Webinars:

MDPH MAVEN Help Desk: MavenHelp@mass.gov
MAVEN Onboarding: MavenTraining@mass.gov
MDPH MAVEN Help Desk: 617-983-6801
MDPH MAVEN Fax: 617-983-6813
DESE Rapid Response Help Center: (781) 338-3500
EEC Helpline: (857) 488-4418 EEChealthline@primary.health
Updates for today, Tuesday, 3/15/2022

- Death Data Update – Dr. Katherine Brown, Shauna Onofrey & Spencer Cunningham
  - LBOH Death Report – confirmed and probable cases
  - Pivot Table Demonstration
- MAPHN Survey – Glynnis LaRosa & Kevin Cyr
- Constant Contact – new listserv software for sending out invites
- Reminder to scan and check your Immediate, Routine & Pending Workflows in MAVEN
Background on Council of State and Territorial Epidemiologists’ (CSTE) recommendation

“This guidance was developed by the Council of State and Territorial Epidemiologists (CSTE) with input from members and in collaboration with the Centers for Disease Control and Prevention (CDC).”

Summary of differences between definitions of confirmed COVID-related deaths

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Definition 1 (March 2020-March 2021)</th>
<th>Definition 2 (April 2021-December 2021)</th>
<th>Definition 3 (CSTE recommendation) 2022 and beyond</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case investigation</strong></td>
<td>- case investigation of death</td>
<td>- determined COVID &quot;caused&quot; or &quot;contributed&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Death certificate</strong></td>
<td></td>
<td>- COVID-19 or &quot;equivalent term&quot; on death certificate</td>
<td></td>
</tr>
<tr>
<td><strong>COVID diagnosis</strong></td>
<td>- Any COVID diagnosis, regardless of timing</td>
<td>- Any death within 60 days of a COVID diagnosis unless obviously due to another cause (ex. trauma)</td>
<td>- Any death within 30 days of diagnosis and death labeled &quot;natural causes&quot; on death certificate</td>
</tr>
</tbody>
</table>

For all definitions, a death is "COVID related" if at least 1 criteria are met.
Summary of potential changes to previously reported COVID Deaths

<table>
<thead>
<tr>
<th>Change Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Report updated confirmed death totals based using CSTE Definition</td>
<td>- 4,251</td>
</tr>
<tr>
<td>2. Add new probable deaths identified during records review</td>
<td>+355</td>
</tr>
<tr>
<td>3. Add new confirmed deaths identified during records review</td>
<td>+117</td>
</tr>
</tbody>
</table>
COVID Deaths March 2020 – December 31, 2021

- 4251 fewer deaths attributed to COVID under Definition 3;
- Over 95% of difference is between May 2020 and May 2021

Switched to Definition 2
Although the biggest change is the decrease in confirmed deaths based on the change in definition, you may also see an increase in probable deaths.

- These are people with COVID on their death certificate that were not previously reported and identified as part of the extensive review process.

Part of the review process included de-duplication, however it is possible that you may identify additional duplicates.

- If you do, please follow your usual process reaching out to the MAVEN team.
- Duplicates are more common when someone is a resident of a LTCF; if there are questions about what municipality a death should be assigned to, please reach out.

As a reminder, please do not change the Vital Records ID field in MAVEN – we use that to track the deaths that have been already reported.
Massachusetts Local Public Health Nursing Survey Project

Glynnis LaRosa, MDPH and Kevin Cyr, APHC
3/15/2022
Academic Public Health Corp. (APHC)
Local PHN Survey Project Team

**APHC Project Team Members**
- Kevin Cyr, APHC Local Public Health Nursing Data Project Team Lead, MA College of Pharmacy & Health Sciences (MCPHS) graduate MPH student
- Matthew Lang, Tufts University graduate MPH student
- Ziyan Jiang, MCPHS graduate MPH student
- Evelyn Masterson, Harvard University graduate MPH student
- Victoria Wang, BS, University of MA Amherst
- Evangeline Yuan, University of MA Lowell graduate MPH student

**MDPH Public Health Nursing Advisors to the Project and Team**
- Kathy Downey
- Glynnis LaRosa
Massachusetts Local Public Health Nursing (PHN) Survey Project

**Goal**
Document the range of local Public Health Nursing services provided across the state.

**Aim**
Develop a working definition of the local Public Health Nursing role.
Massachusetts Local Public Health Nursing (PHN) Survey Project

- Initiated project in the fall 2020
- Began phone survey interviews in Oct. 2021
- Builds upon previous local PHN data collection project work
- Collaborators: MDPH, MAPHN, MHOA, and APHC current and past APHVC project team members
Massachusetts Local Public Health Nursing Survey

Collecting information such as:
- Number of PHNs
- Hours worked
- Salary & Compensation
- Impact of the COVID-19 pandemic on the public health nursing roles and duties
- Strategies used to support local Public Health Nursing throughout the pandemic
Data Collection Phase

- **Individual data**
  - Phone interviews with local PHNs and Health Directors - Or -
  - Local PHNs and Health Directors can complete survey using the survey link
- **Collecting local PHN job descriptions**

It is important that local practicing PHNs’ voices are heard so the project team is working hard to collect as many local PHN surveys as possible.
Scheduling Your Phone Survey Interview

If you have not spoken to an APHC member for your phone interview - Please use this link to schedule a phone survey interview

If you are unable to make an appointment using the scheduling link or you would like to receive the online survey link please email
Kevin Cyr, APHC Member and Local Public Health Nursing Data Project Team Lead at kcyr@mhoa.com
Collecting Local PHN Job Descriptions

Please share your Local Public Health Nurse job description(s) via email to phn.survey.project@mhoa.com and put “PHN Job Description” in the subject line.
Thanks for your Participation!
Check your Immediate, Routine & Pending Workflows

- Reminder to check your Immediate, Routine, Pending Case Report Form Workflows
  - LBOH Notification for Immediate Disease
  - LBOH Notification for Routine disease (388 cases currently waiting for you today)
  - LBOH Case Report Forms (CRF) are pending (878 cases in this workflow)

--- Cases in this workflow range from Jan 2020 – March 2022
MAVEN Listserv

- MAVEN listserv software has been updated to Constant Contact

- This change will affect the following types of emails:
  - Webinar-related emails
  - MAVEN maintenance emails
  - Weekly LBOH testing data

- Emails will look different, but the content will be the same

- Emails will still come from mavenhelp@mass.gov

- All new MAVEN users are added to the listserv receiving webinar emails. If you would like to be added, please email mavenhelp@mass.gov
LBOH Confirmed and Probable Death Report

- Deployed Friday, 3/11
- This report will extract **ALL** cases of who have Outcome=Died in the Clinical Question Package #3.
- Confirmed and Probable cases
  - Report can be pulled with dates from 2020-2022
What the heck is a Pivot Table

- A **pivot table** is a table of grouped values that aggregates the individual items of a more extensive table within one or more discrete categories.
- This summary might include sums, averages, or other statistics, which the pivot table groups together using a chosen aggregation function applied to the grouped values.
- You can also choose to make graphs.

**Example Pivot Table**
<table>
<thead>
<tr>
<th>Event ID</th>
<th>Event Date</th>
<th>Specimen Date of First Positive Test Result</th>
<th>Disease Classification Status</th>
<th>Name</th>
<th>Age</th>
<th>Gender</th>
<th>Outcome</th>
<th>Date of Death</th>
<th>Street Address</th>
<th>City</th>
<th>Ethnicity</th>
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<tbody>
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<td>3/16/2020</td>
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<td>Died</td>
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<td>4/25/2020</td>
<td>19 Main Street</td>
<td>WHOVILLE</td>
<td>Black African American</td>
</tr>
</tbody>
</table>
How to create a Pivot Table for Death Counts

1) Place cursor in one of the fields in the spreadsheet
2) Click on Insert Tab (usually top left)
3) Click on Insert Pivot Table button
4) Once you click Pivot Table button a new window opens up – make sure New Worksheet is selected and then click OK
New Worksheet appears in a new tab on Excel

Field choices from spreadsheet headers

Field you choose are placed in the lower section - most commonly used are rows and values

Area where totals are shown
Start by checking off the field you want to explore (Example: Death Date) and then Drag field to Rows box and Values Box.
Then drag the Death Date field to the Columns section – the counts/grand total by month should appear in your Pivot Table.