Welcome!

We will start shortly.





Sign up here for updates and alerts from CORI.

cori.centerforhealthsecurity.org/



CORI Community of Practice Summer Series: Creating A Culture of Continuous Improvement in Outbreak Response

A Collaborative Partnership between the Center for Outbreak Response Innovation (CORI) and State and Local Health Departments

Community of Practice Meeting

Agenda

- Introductions
- Series Overview
- Partner Project Spotlight: TN Department of Health
- CORI Project Spotlight: New RedCap Template
- Discussion
- Next Steps

Community of Practice Meeting

Logistics:

- Please enter any question in the chat for the duration of the meeting
- Cameras may remain on to encourage collaboration
- This session will be recorded and distributed to partners
- Please remain muted unless talking

Introductions



Caitlin Rivers, PhD Director



Crystal Watson, DrPH Deputy Director



Alison Kelly Chief of Staff



Eric Toner, MD Senior Scholar



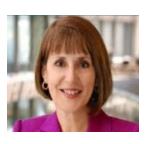
Lucia Millen, MPH Associate Scholar



Sut Soneja, PhD Associate Scientist



Elizabeth Cambell, PhD Assistant Scientist



Denise Cardo Contributing Scholar



Haley Farrie, MPH Senior Analyst



Ameaka Fatima, PharmD, MPH Senior Analyst



Hannah Goodtree, MPH Analyst



Sarah Gillani, MPH Analyst



Oluremilekun Oyefolu, MD, MPH Post Doctoral Fellow



Sarah S. Firestone, Research Program Manager



Amanda Hart Senior Program Coordinator



Athena White Communications Manager



Sharell Bryant, Program Operations Coordinator



Tommy O'Keefe, DBA(c), Financial Manager

Series Overview

Purpose & Goals

The Community of Practice (CoP) Summer Series is designed to enhance the collective capacity of health departments to respond to outbreaks swiftly and effectively using modeling, analytics, and decision support tools.

Facilitate realtime sharing of best practices and lessons-learned for modeling, analytics and outbreak response decision-making. Promote the development of an expanded network of state, tribal, local, and territorial health departments and collaborative problem-solving for complex outbreak scenarios.

Enhance the dissemination of resources and tools across jurisdictions.

Improve overall preparedness and response capabilities among participating health departments.

Develop a culture of continuous improvement for outbreak response by sharing lessons learned and actionable solutions

Topic Areas

Outbreak response tools (e.g., RedCap Projects, dashboards, and response template protocols, press releases, and more.)

Modeling and analytic tools (e.g., models and analyses developed by other health departments, infectious disease modelers, etc.)

Decision support tools (e.g., risk assessments, guidance documents)

Quality improvement principles

Audience

The CoP will primarily serve epidemiologists, data analysts, outbreak response teams, emergency preparedness personnel, and decision-makers from local, state, and territorial health departments. The CoP is limited to existing CORI health department partners at this time to serve as a pilot for a potentially larger CoP for health department outbreak response in the future.

Roles

CORI

- Develop, coordinate, and facilitate all meetings, as well as any outputs generated as a result of the CoP.
- Work with partners to develop the evidencebase for the use of modeling in outbreak responses.
- Facilitate collection and distribution of tools and resources.
- Facilitate specific collaborative projects to focus on common outbreak processes or challenges, as driven by partner interests and needs.

Members

- Note: CoP members are encouraged to participate in the following ways, depending on their availability and interests
- Share operational challenges during outbreak responses and resources needed to enhance outbreak preparedness and response, modeling, and analytics.
- Share lessons learned from their responses and tools they have developed and found helpful.
- Provide feedback on outbreak response guidelines, protocols, and tools being developed by their peers.

Activities and Structure

Four interactive summer sessions (60 minutes each) on the topic areas requested by partners

News and Updates: Briefings on emerging outbreaks and response strategies through the CORI digest and risk assessments for critical diseases.

Resource Library: A centralized repository for guidelines, protocols, and tools.

Collaborative Projects: Joint initiatives to address common challenges

Summer Schedule

Summer Series Theme: Data Collection, Analysis, and Visualization Tools for Decision-making

Key Topics & Presenters

- RedCap for Outbreak Response: TN Department of Health & CORI
- Surveillance Indicator Dashboard: Carnegie Mellon University DELPHI Group
- Measles Outbreak Simulation Dashboard: University of Texas at Austin
- Presenters: Minnesota Department of Health & University of Minnesota

Dates

- Friday, April 25 12:00- 1:00
- Friday, June 6th 12:00-1:00
- Friday, July 18th 12:00-1:00
- Friday, August 15th 12:00-1:00

Partner Presentations



REDCap for Measles Response:

Development Tricks & Deployment Takeaways



Project Development

Sarah Winders

Vaccine Preventable Diseases Deputy Director Tennessee Department of Health

REDCap Project Overview



Each record is either a case or a contact

can move from contact \rightarrow case



Staff from the state & local health departments have access



External code for IIS matching and upload of results



Captures <u>all</u> info in one place

immunization history, contact tracing, lab, clinical, epi classifications



Survey for active daily monitoring

self-completed survey or PH phone call



Data connected to Tableau for visualizations & dashboard for website

Dynamic Response – A Relay Race

Adding contacts to REDCap

Healthcare exposed patients line lists



Data Entry Team

Immunization History

Data Management



IIS Epis

Contact Notifications

Data Entry Team



Local Public Health Staff

Qualify for Monitoring

Local Public Health Staff



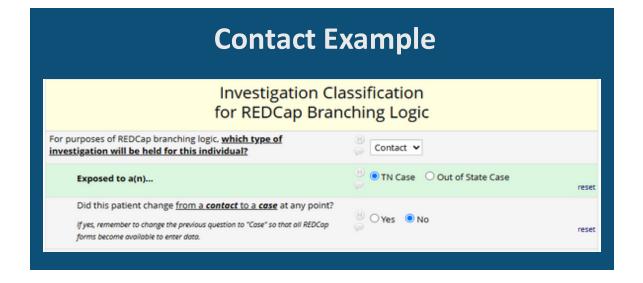
Data Management& Daily Monitoring

BTS – Project Development

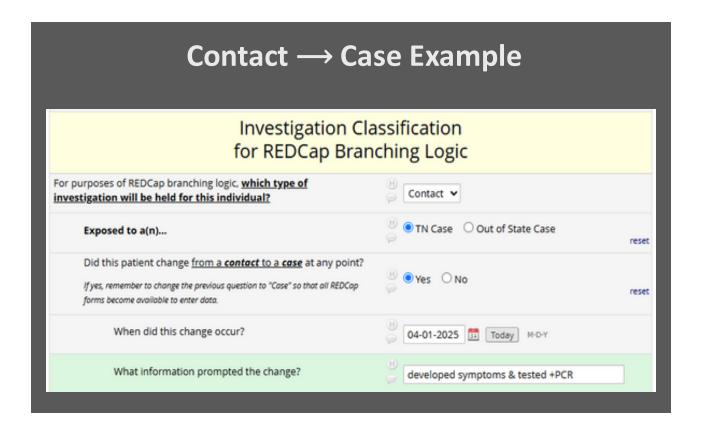


Cases & Contacts





Cases & Contacts



Link Contacts to Cases





Form Display Logic

Initial Reporting Source

Demographics & Contact Info

Immunization History

Initial Symptom Info

Measles Complications

Contact Tracing

Lab Tests

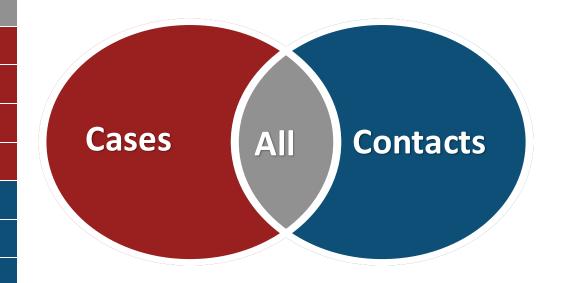
Exposure, Prior Immunity & PEP

Quarantine/Furlough Algorithm

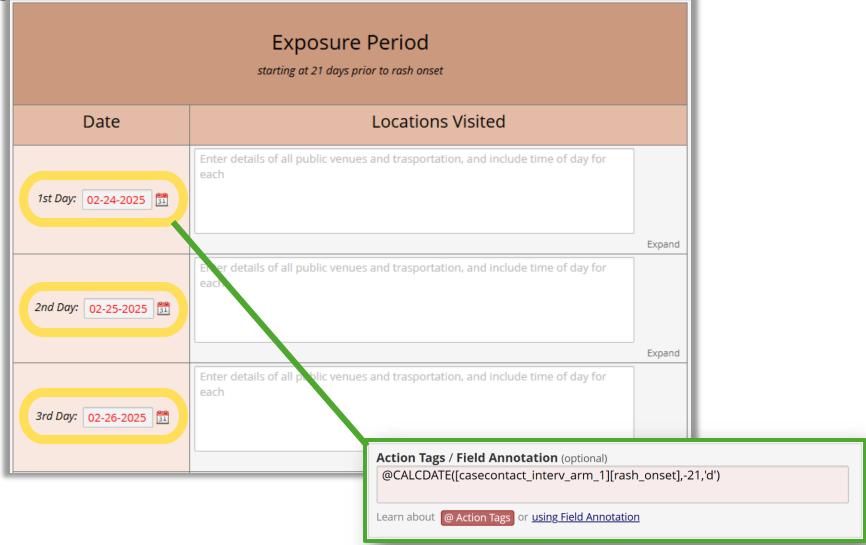
Daily Monitoring Survey

Upload Documents

Final Case Classification



Calculated Fields



Calculated Fields / Branching Logic

Step 1

Active Monitoring Flag

(Calculated Field, Hidden)

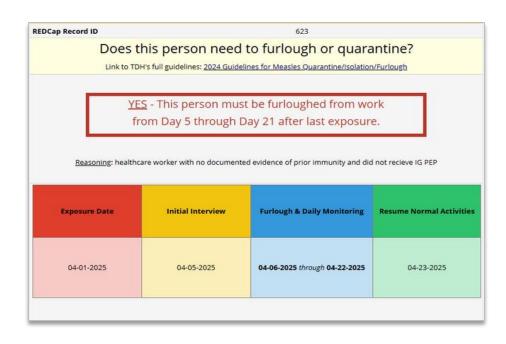
1 – Qualifies for monitoring 0 – Does NOT qualify



Step 2

Multiple Versions of Algorithm Table

(Branching Logic based on Calculated Field)



Calculated Fields / Branching Logic



Does this person need to furlough or quarantine?

Link to TDH's full guidelines: 2024 Guidelines for Measles Quarantine/Isolation/Furlough

<u>YES</u> - This person must quarantine through Day 28 after last exposure.

Reasoning: non-healthcare worker with no documented evidence of prior immunity and recieved IG PEP

Exposure Date	Initial Interview	Quarantine & Daily Monitoring	Resume Normal Activities
04-01-2025	04-05-2025	04-06-2025 through 04-29-2025	04-30-2025

Calculated Fields / Branching Logic



Vaccine History – IIS Match

Example 1

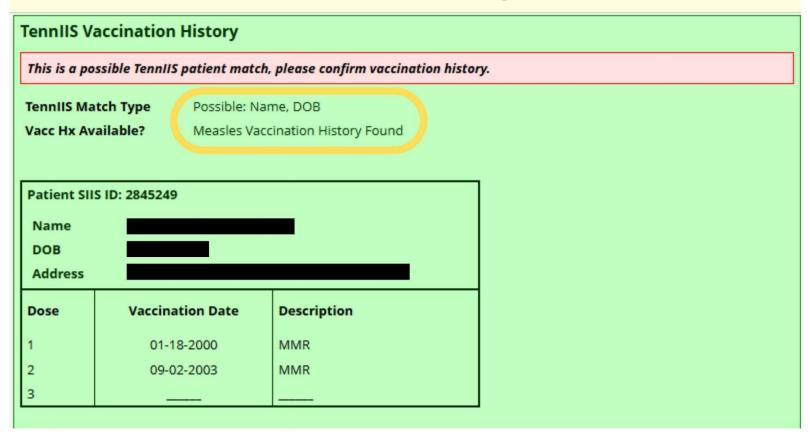
Automatic TennIIS Data Pull Vaccination History



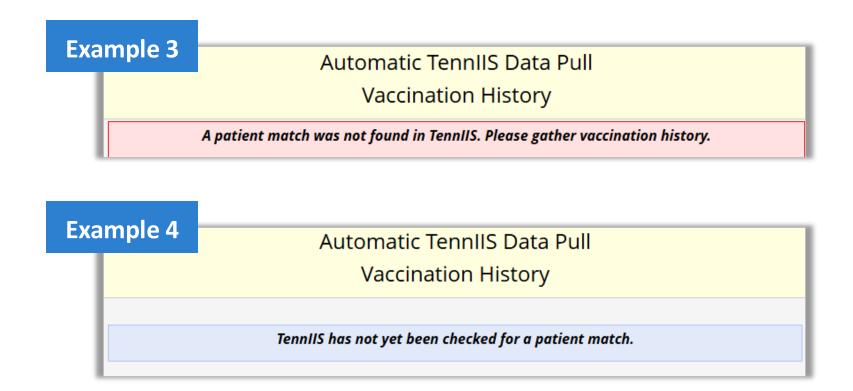
Vaccine History – IIS Match

Example 2

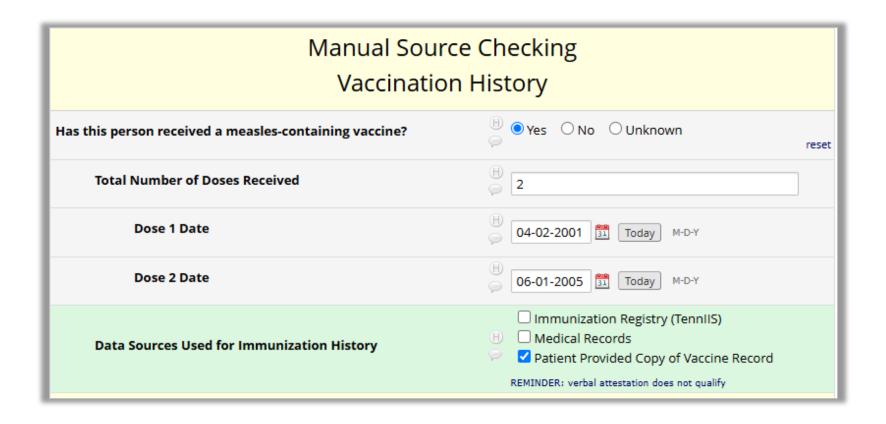
Automatic TennIIS Data Pull Vaccination History



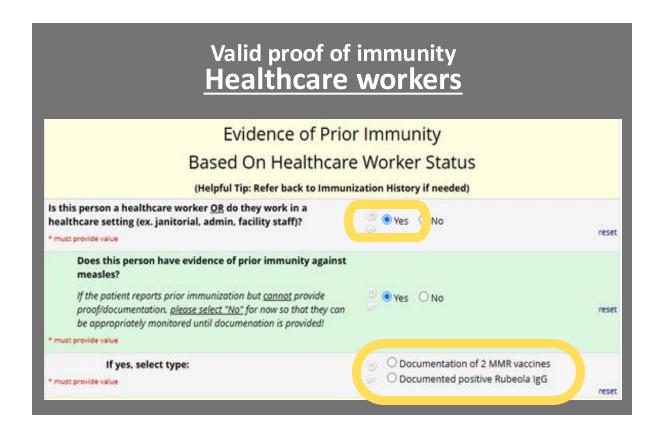
Vaccine History – IIS Match



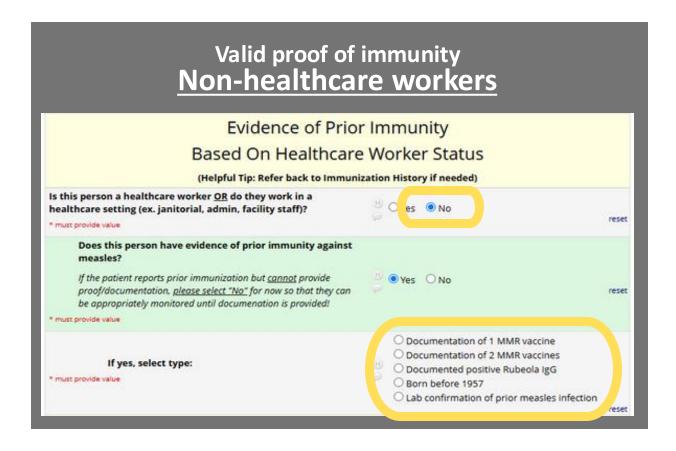
Vaccine History – Manual Data Entry



Branching Logic



Branching Logic



Daily Monitoring Survey

Text Consent:

Since this individual meets criteria for active/daily monitoring...

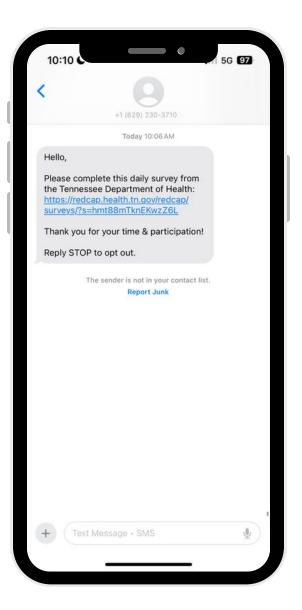
Do they consent to receive daily texts containing a link to a survey to complete which will ask if they have experienced any new symptoms?

Texts will be sent at 10:00AM Central each day of their monitoring period, and a reminder text will be sent at 3:00PM if they have not responded.

If yes, please make sure the phone number on the Demographics page is up-to-date.

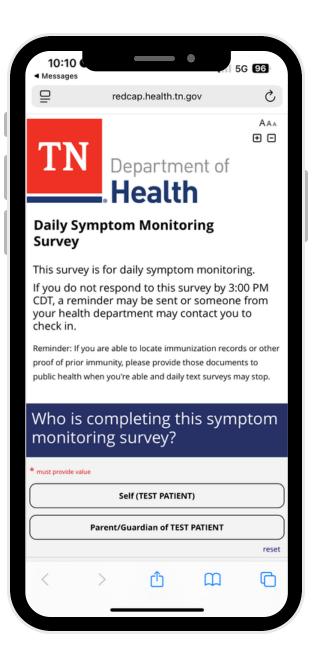
For reference, this is the phone number they can expect to receive these texts from: (629)-230-3710

Yes, they are agreeable to a texted daily survey
No, they prefer a daily phone call check-in
No, they have requested to not be contacted again



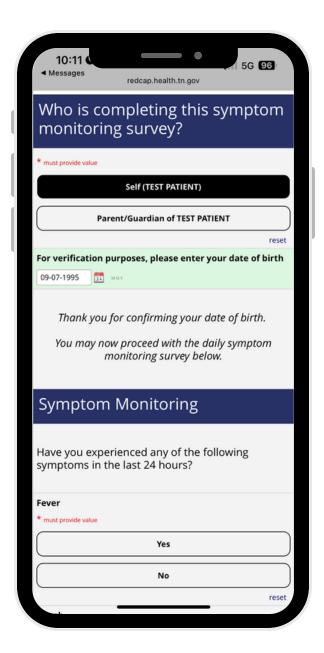
Daily Monitoring Survey

- 1. Click on survey link in text message
- Survey opens in browser
- 3. Respondent self or parent/guardian
- 4. Date of birth verification
- 5. Symptoms yes/no
- 6. Date/time stamp
- 7. Submit



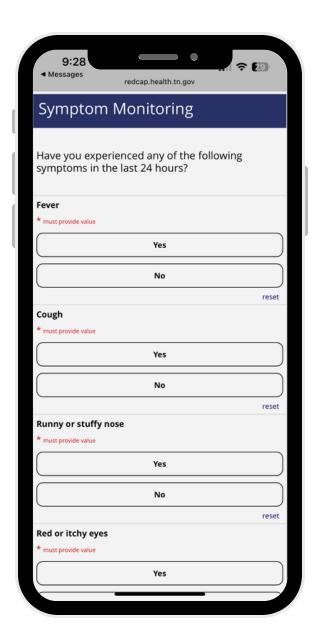
Daily Monitoring Survey

- 1. Click on survey link in text message
- 2. Survey opens in browser
- 3. Respondent self or parent/guardian
- 4. Date of birth verification
- 5. Symptoms yes/no
- 6. Date/time stamp
- 7. Submit



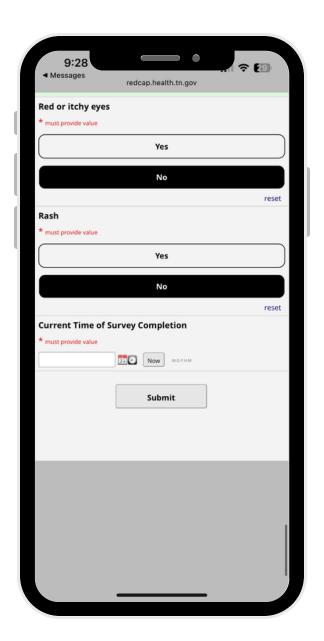
Daily Monitoring Survey

- 1. Click on survey link in text message
- 2. Survey opens in browser
- 3. Respondent self or parent/guardian
- 4. Date of birth verification
- 5. Symptoms yes/no
- 6. Date/time stamp
- 7. Submit



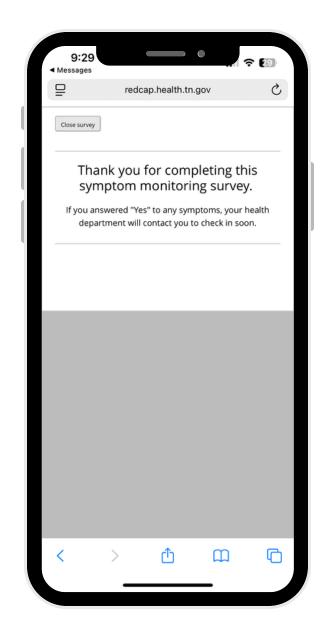
Daily Monitoring Survey

- 1. Click on survey link in text message
- 2. Survey opens in browser
- 3. Respondent self or parent/guardian
- 4. Date of birth verification
- 5. Symptoms yes/no
- 6. Date/time stamp
- 7. Submit



Daily Monitoring Survey

- 1. Click on survey link in text message
- 2. Survey opens in browser
- 3. Respondent self or parent/guardian
- 4. Date of birth verification
- 5. Symptoms yes/no
- 6. Date/time stamp
- 7. Submit



Alerts for Symptomatic Respondents

Subject **REDCAP ALERT** Measles Daily Monitoring Survey Respondent REPORTED SYMPTOMS [secure email]

Message: ALERT: The following individual has completed their texted survey and reported experiencing symptoms on their daily monitoring survey

Note for Weekend Coverage Staff Monitoring EP.response@tn.gov inbox:

- Ensure the region/metro is aware & will be following up with the patient via phone call to confirm symptoms and gather further details
- If testing will be pursued for this patient, specimen collection can be completed Monday
- Action Item: Please reply to this email and CC Sarah Winders & Amanda Hartley with updates (no need to enter data into REDCap over the weekend)

REDCap ID: [record_id]

Name: [lastname], [firstname]

Region: [address_tn_region]

Survey Info:

Who completed the survey: [survey_person]

Time Completed: [surveytime]

Fever	[fever]
Cough	[cough]
Conjunctivitis	[conjunctivitis]
Coryza	[coryza]
Rash	[rash]



Lessons from Deployment

Kimberly Garret

Regional Immunization Nurse Mid Cumberland Regional Health Department

Pros:

-Face sheet shows number of attempts made to reach contacts

Event Name	Initial Notification/Interview with Patient Complete	Contact Attempt #1 Notes	Contact Attempt #2 Notes	Contact Attempt #3 Notes	Needs Accurint Search
					Yes
Case/Contact Interview (Arm I: Add Case or Contact)	Unchecked	LM to call back. KGARRETT RN 3-21-25	left message. KG 3-22	Accurint request. Text message sent for callback. 3/23/25. JTRN	Checked
Case/Contact nterview (Arm :: Add Case or Contact)	Unchecked	left vm 3/21 @ 1557 W. Jones, RN	Left VM. 3-22 KG	03/23/25-Accurint request. Text message sent for callback, JTRN	Unchecked
Case/Contact nterview (Arm L: Add Case or Contact)	Unchecked	called 3/21@1635. Mailbox full - unable to leave message. W. Jones, RN	3/22 Went straight to VM and mailbox is full. KG	reached back out to #259, as this contact accompanied #259 to ED. #259 relayed information to this contact. Advised that we will send letter to address on file to #259, which she has agreed to give to this contact.	Unchecked
Case/Contact nterview (Arm :: Add Case or Contact)	Unchecked	left vm 3/21 @ 1630.	left VM 3/22. KG	reached back out to #259, as this contact accompanied #259 to ED. #259 relayed information to this contact. Advised that we will send letter to address on file to #259, which she has agreed to give to this contact.	Unchecked
Case/Contact nterview (Arm L: Add Case or Contact)	Unchecked	3-22 Attempted to call and kept ringing not able to leave message. KG	reached back out to #259, as this contact accompanied #259 to ED. #259 relayed information to this contact on 3/21/25. Advised that we will send letter to address on file to #259, which she has agreed to give to this cont	will send letter 3/24.	Unchecked
Case/Contact nterview (Arm :: Add Case or Contact)	Unchecked	Attempted to call and just kept ringing unable to leave VM. KG 3-22	reached back out to #259, as this contact accompanied #259 to ED. #259 relayed information to this contact. Advised that we will send letter to address on file to #259, which she has agreed to give to this contact.	will send letter 3/24.	Unchecked
Case/Contact		3/22/2025 11:43 left	3/23/25 - text sent @ 1349. W.	Text sent 3/24/25 ACB	

Pros:

- Quickly able to filter out checked and unchecked contacts
- User friendly
- Easily upload immunization records, titers and medical records

2) ALL Contacts 3) ALL Cases 4) ----- REGION / METRO LISTS ------5) Working List of Contacts for MCR 6) CO's Working List of Contacts for MCR 7) Contacts for MCR (ALL) 8) MCR Contacts - Initial Call Complete 9) Contacts for NDR 10) Contacts for SCR 11) Contacts for WTR 12) Contacts for ETR 13) Contacts for CHR 14) Contacts for JMR 15) Contacts for KKR 16) Contacts for MSR 17) Contacts for NER 18) Contacts for SER 19) Contacts for SUL 20) Contacts for UCR 21) ----- TRACKING INITIAL NOTIFICATIONS -----22) Completed Initial Notification 23) Incomplete Initial Notification (all) 24) Incomplete Init. Not. (no attempts) 25) Incomplete Init. Not. (1+ attempts) 26) Contacts Vax Records

Cons:

-September 2024 project didn't have the attempts made columns on the face sheet, that was resolved for the recent case.



Thank you!

RedCap Template Spotlight

Available REDCap Tools

- Case Investigation Form
- Contact Monitoring Form
- Compatible Power Bi Dashboard

- Developed using CDC case investigation and contact monitoring guidance
- Publicly available and adaptable to local needs

Features

- Integrated script
- Pre-configured templates
- Standardized data fields
- Call logs
- Batch upload
- Automated email notifications
- Dashboard for realtime data visualization

Note to Interviewer:

- During the interview. fill in the introductory script and the questions/sections in bold/shaded throughout the form.
- Say the scripted text that is in italics throughout the form to introduce the different sections.
- . Use Mr., Mrs., or Ms. Last Name; preferable not to use their first name
- If they are still a suspect case pending results, do not say they have measles when leaving a message or on the phone.
- . If the patient is not the interviewee, replace your' with the patient's name throughout the interview

Introductory Script: Measles Investigation

Hella, my name is finsiert name), I am calling from the finsert Health Department]. May I please speak to [Insert name of patient or parent]? I am calling because [PICK ONE: 1. you were identified as someone who may have had contact with measles at [location]; 2. you are suspected of having measles; or 3. you have tested positive for measles). We would like to ask you a few questions about your recent whereabouts and contacts, recent symptoms, and medical history. We would also like to ask about people you have had contact with to better understand the possible spread of the virus to others in your family and community.

We hope that your answers will help identify those with measles and stop the spread of the virus to keep everyone in the community safe. We estimate that these questions will take 20 minutes to answer. Your participation is voluntary. You do not have to answer any questions that make you uncomfortable, and you can stop at any time. The personal identifiable information you share with me today will be kept confidential and will not be shared outside of [Insert Health Department].

Would you like to continue with the questions?

INVESTIGATION BEGINS

We will now begin the interview with some general questions.

Discussion

Partner Discussion

Topic areas:

- Audience poll questions (QR Code)
 - Link here: https://PollEv.com/surveys/s5vJfXnf0Ibh38tgt8JbY/respond
- Questions for presenters



Next Steps

Next steps

Short Feedback Survey

- Link here: https://jh.qualtrics.com/jfe/form/SV erLt7DpMyQ6DHUy
- Survey will close EOD

Follow-up Email

- Meeting recording
- Slides
- Template files from TN Department of Health
- Poll Results

Upcoming CoP Dates (all times EST)

- Friday, June 6th 12:00-1:00
- Friday, July 18th 12:00-1:00
- Friday, August 15th 12:00-1:00



Thank you.



Sign up here for updates and alerts from CORI.



cori.centerforhealthsecurity.org/