# **Contact Tracing: Using Digital Tools**

Technology can support case investigation and contact tracing but cannot take the place of the staff who interview, counsel, and provide support for those impacted by COVID-19. There are two key types of technology that can contribute to the contact tracing process: case management tools and proximity tracing/exposure notification tools. This technology guide serves as a companion to the case investigation workflow and contact tracing workflow.

# **Types Of Digital Contact Tracing Tools**



#### **Case Management**

Make the traditional contact tracing process faster and more efficient:

- Streamline the electronic capture and management of data on patients and contacts
- Integrate workflows with surveillance systems or other workforce management tools



### **Proximity Tracing/Exposure Notification**

Identify more contacts than traditional contact tracing alone:

- · Use voluntary, opt-in tools in addition to case management tools to augment traditional contact tracing
- Use Bluetooth or GPS technologies to estimate the proximity and duration of an individual's exposure to patients diagnosed with COVID-19

# 1. Patient Identification & Follow-up





Referral for

support services



Referral to medical provider if symptoms are severe or worsen

#### Case management tools can:



- Provide workflow support to assign and manage communication and follow-up with patients
- Notify patients of a forthcoming call from the health department to increase likelihood of call acceptance
- Generate secure, confidential electronic surveys for the patient to fill out to provide a head start on the patient interview
- Send daily automated phone, email, or SMS illness or symptom monitoring checks, reducing the phone call burden required by case investigation staff
- Alert health systems when referrals and support services are recommended or required



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## 2. Contact Identification





#### Case management tools can:

 Generate secure, confidential electronic surveys for the patient to self-report recent contacts and their information (can jumpstart the contact identification process traditionally conducted during the patient interview)



#### **Exposure notification tools can:**

Assist a patient to remember recent events and locations

## 3. Contact Notification





### Case management tools can:

- Generate automated notifications to elicited contacts via phone, email, or SMS
- **Manage** the health department's notification workflows (e.g., call log and conversation history with contacts)



#### **Exposure notification tools can:**

 Notify individuals via smartphone of a potential exposure, and refer them to the health department for follow up

# 4. Contact Follow-up







Test if available

provider if necessary





### Case management tools can:

- **Provide** workflow support to prioritize, assign, and manage the communication and follow-up process with contacts
- Automate prioritization based on data collected (e.g., risk level, opt-out, non-response, contact becomes symptomatic)
- Send daily automated phone, email, or SMS illness or symptom monitoring checks, reducing the phone call burden required by contact tracing staff
- **Integrate** with other public health systems and services including call centers or test scheduling
- Alert health systems when referrals and support services are recommended or required

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