# COVID-19 Case Investigation Targets

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## Outline

- What are the targets?
- Purpose behind the targets
- Michigan data to date
  - Example of a LHD-specific data dashboard
- How are targets being measured?
  - Guidance on completion of the COVID Case Report Form (CRF)
- Technical assistance from MDHHS
- Open Discussion

# What are the Targets?

#### COVID-19 Case Investigation Targets

- <u>Target 1</u> Interview Attempted on 90% of cases within 1 day of referral to MDSS
- <u>Target 2</u> Interview Completed on 75% of cases within 1 day of referral to MDSS
- <u>Target 3</u> Contacts Elicited on 50% of cases within 1 day of referral to the MDSS (or no contacts or refused to provide contacts)
- <u>Target 4</u> Race AND Hispanic Ethnicity AND Arab Ethnicity documented within 7 days of referral to the MDSS

# Purpose

### Purpose of the Targets

#### Time is of the essence.

Identifying contacts and ensuring they do not interact with others is critical to protect communities from further spread. If communities are unable to effectively isolate patients and ensure contacts can separate themselves from others, rapid community spread of COVID-19 is likely to increase to the point that strict mitigation strategies will again be needed to contain the virus.

Contact tracers need to:

- Immediately identify and interview people with SARS CoV-2 infections and COVID-19 (i.e., disease)
- Support isolation of those who are infected
- Warn contacts of their exposure, assess their symptoms and risk, and provide instructions for next steps
- Link those with symptoms to testing and care

#### https://www.cdc.gov/coronavirus/2019-ncov/php/principles-contact-tracing.html

### Purpose of the Targets

# Ongoing monitoring and assessment of contact tracing efforts will be needed.

Public health agencies and their partners will need to monitor some key components of their programs to improve performance as needed. Potential metrics routinely reviewed could include the following process and outcome measures:

- Case interviewing: Time to interview from symptom onset and from diagnosis, proportion interviewed; median number of contacts elicited; proportion with no contacts elicited.
- Contact notification: Proportion of contacts notified; time from first potential exposure to notification.
- Contact follow-up: Daily proportion of contacts whose status is evaluated; proportion of contacts with symptoms evaluated within 24 hours of onset of symptoms; proportion of contacts who complete their full self-monitoring period
- Contact tracing efficacy: Percent of new COVID-19 cases arising among contacts during selfmonitoring period.

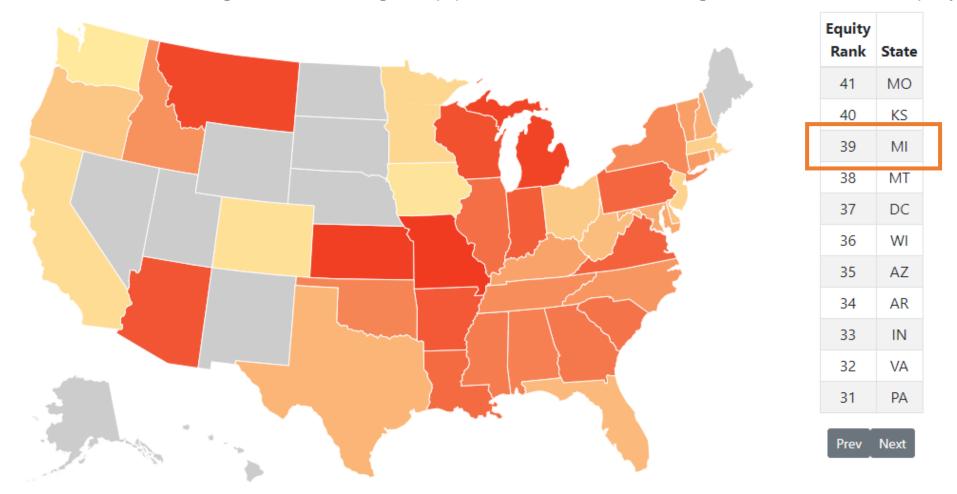
#### https://www.cdc.gov/coronavirus/2019-ncov/php/principles-contact-tracing.html



#### Showing Racial Disparities in COVID-19 Cases

#### Last Updated: May 17, 2020

COVID-19's impact in the United States is immense, but the virus's impact has been disproportionately experienced in black and Hispanic/Latinx communities. The map below displays and ranks each state by the extent to which the racial differences in COVID-19 rates of infection and deaths have diverged from each state's general population. The redder the state, the greater the COVID-19 racial disparity.

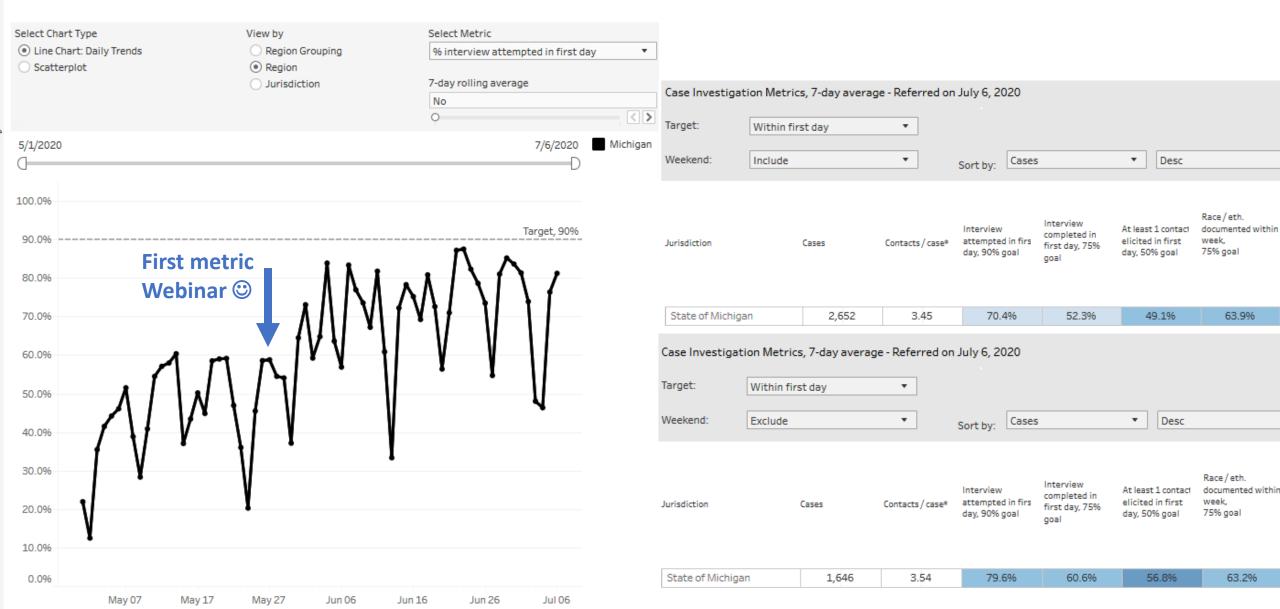


# Michigan Dashboard

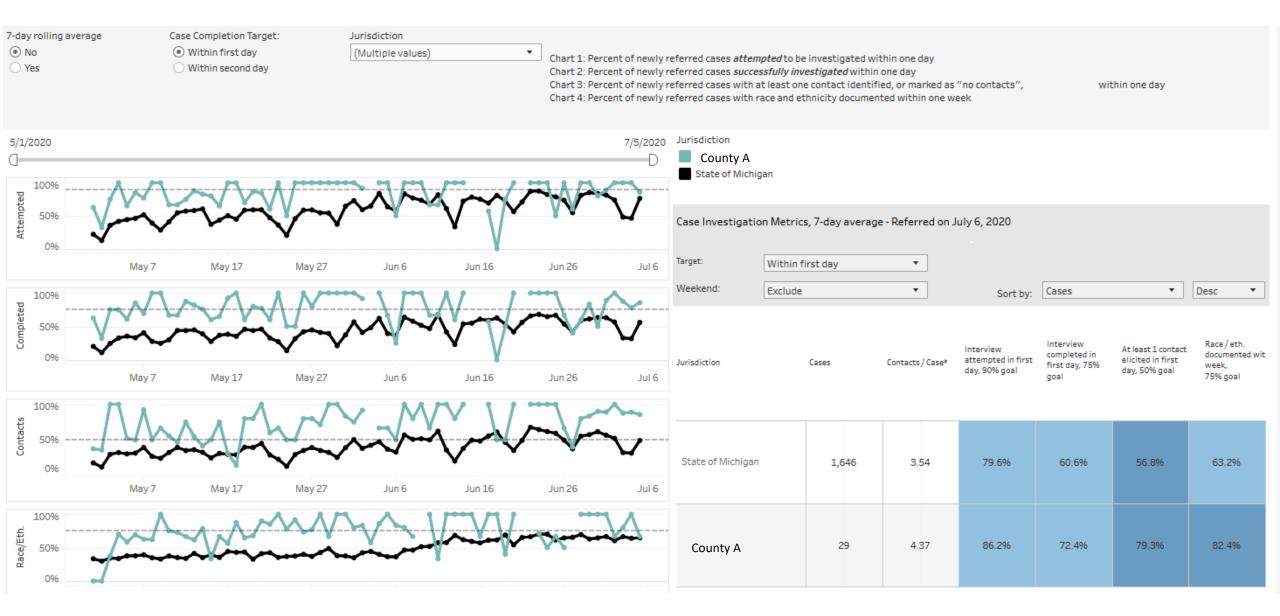


#### How is the State doing towards the targets?

#### COVID-19, State of Michigan: Investigation and Tracing TA Metrics



#### Example of an LHD 'Dashboard'



#### Example of an LHD 'Dashboard'



# How are targets being measured?



"What about Instagram?"

#### Process of extracting data from MDSS

- Each evening, a statewide MDSS disease-specific search is run for COVID cases referred to MDSS the previous day
- Data extracted the evening of 7.11 are used to assess targets 1-3 for cases with a 7.10 referral
- For target 4 we pull records with a referral date 8 days prior (on 7.11 we measure the data included in case reports referred on 7.3)
- Data queried:
  - Condition- Novel Coronavirus COVID-19
  - Case Status- Confirmed
  - Investigation Status- Active, Completed, Completed Follow-up, New, Review

2020 JULY						
SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11

Data are pulled form the MDSS in the evening of 7.9 Targets 1-3 are measured for cases with a 7.8 referral date Target 4 is measured for cases with a 7.1 referral date

The dataset to evaluate these metrics is frozen. The metrics calculated on 7.9 are permanent and will not change over time

2020 JULY						
SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11

Data are pulled form the MDSS in the evening of 7.10 Targets 1-3 are measured for cases with a 7.19 referral date Target 4 is measured for cases with a 7.2 referral date

The dataset to evaluate these metrics is frozen. The metrics calculated on 7.10 are permanent and will not change over time

2020 JULY						
SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11

Data are pulled form the MDSS in the evening of 7.11 Targets 1-3 are measured for cases with a 7.10 referral date Target 4 is measured for cases with a 7.3 referral date

The dataset to evaluate these metrics is frozen. The metrics calculated on 7.11 are permanent and will not change over time

## Process of extracting data from MDSS

- Data elements pulled include:
  - Onset Date
  - Referral Date
  - State Prison Case (to remove from LHD numbers)
  - Home Phone Number
  - Race, Hispanic Ethnicity, Arab Ethnicity\*
  - Subject has no close contacts?\*
  - Subject has refused to provide contacts\*
  - Contact County Health Department (as a proxy for contact being documented)\*
  - Date of First Interview Attempt\*
  - Current Interview Status
  - Date of Interview\*

- \* Target 1
- \* Target 2
- \* Target 3
- \* Target 4

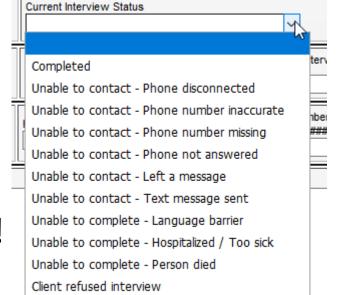
### Target 1 – Interview Attempt within 1 day

 Interview Attempted on 90% of cases within 1 calendar day of referral to the MDSS

- Other Information					
Local 1	Local 2				
Date of First Interview Attempt <i>mm/dd/yyyy</i>	Current Interview Status				
Name of Person interview ed	Relationship to patient	Date of interview mm/dd/yyyy			
Submitted by:     Date mm/dd/yyyy	Health Department	Phone Number			
Comments or Additional Information					

## Target 1 – Interview Attempt within 1 day

- Date of first interview attempt is when an investigator genuinely attempts outreach to the case
- Use the current interview status drop down ightarrow
  - Lets us know what the barriers are to completing interviews
- If no phone number or bad phone number, that counts!
  - Mark the date in which the investigator tried to investigate
- If interview attempt is to a proxy (family member, director of nursing, charge nurse), that is okay too!



## Target 2 – Interview Completion within 1 day

• COVID-19 Case Interview Completed on 75% of cases within 1 calendar day of referral to the MDSS

- Other Information					
Local 1	Local 2				
Date of First Interview Attempt mm/dd/yyyy	Current Interview Status				
Name of Person interview ed	Relationship to patient	Date of interview mm/dd/yyyy			
Submitted by: Date mm/dd/yyyy	Health Department	Phone Number			
Comments or Additional Information					

## Target 2 – Interview Completion within 1 day

- Investigator has talked to case or case proxy and was able to document some information in the case report form
- If an interview attempt was successful, feel free to mark a date of interview
  - Even though you may continue to engage with the case and if the case remains open in the MDSS

### Target 3 – Contact Elicitation within 1 day

 At least one contact elicited on 50% of COVID-19 cases reported to the MDSS OR "subject has no close contacts" checked OR "subject refused to provide contacts" checked within 1 day of referral to the MDSS

Subject has no close contacts		Subject refused to provide contacts					
Name of Contact* (First First Name Middle Name	st, <i>Last,Middle)</i> Last Name	]	Phone Number* Phone Number	Phone Type Phone Type ∨	Onset Date Onset Date	Age (Yrs) Age	Symptomatic? Symptomatic? ~
Relationship to Case*         Last Contact Date           Relationship to Case            Last Contact Date		Does Contact live or work in a high-risk setting? Does Contact live or work in a high-risk setting?		County Health County Hea	Department* Ith Department ↓		

### Target 3 – Contact Elicitation within 1 day

- Idea is to measure the number of truly usable contacts for the purposes of contact tracing
- What if case provides contacts but missing required fields?
  - should we use 'dummy variables'?
    - E.g. 'husband', 999-999-9999
  - Mark "no close contacts", document elicited contact info in the notes section
- What if case completes interview but refuses to provide contacts?
  - Mark "subject refused to provide close contacts"
- What if the contacts are already known COVID cases?
  - Mark "No close contacts" because you wouldn't trace these individuals

#### Guidance on Completing the Contact Information Section

#### If you cannot complete required fields:

- DO Document contacts with incomplete information in the notes section
- DON'T Please avoid entering 'dummy' data in the standard contacts fields

Name of Contact (First, Middle, Last) - this information helps us to verify we are speaking to the correct person.

- DO Get fill First and Last names for each contact
- DON'T Please avoid using non-descriptive names like 'son', 'wife', etc.

Phone Number – An accurate phone number for the contact is needed to perform outreach.

- DO Get a specific phone number for each individual contact when possible (i.e. get a separate phone number for spouses or household members that are not children).
- DON'T Please avoid using 111-111-1111 or 999-999-9999. Please also avoid entering the phone number for the case in this field.

Phone Type – The phone type helps determine if the contact can be reached by text or not.

Age (Yrs) – Age is important for verifying we are speaking to the right person and identifying the contact as a minor or as an adult.

- DO Please document age as accurately as possible. Leave blank if age is unknown.
- DON'T Please avoid putting 0 or 99 if age is unknown.

**Last Contact Date** – The last contact date helps to identify how long the symptom monitoring period should be (14 days from last contact).

#### Target 4 – Race and Ethnicity within 1 day

 Race AND Hispanic AND Arab ethnicity documented on 75% of COVID-19 cases reported to the MDSS within 7 days of referral to the MDSS

- Demographics					
Sex at Birth O Male O Female O Unknown	Current Gender O Male O Female	O Trans to Female	O Trans to Mai	e O Unknown	
Date of Birth mm/dd/yyyy	Age	Age Units O Days	Months	Oyears	
Race (Check all that apply)         Caucasian       Black/African American         Other (Specify)	American Indian/Alaska Nativ	re 🗌 Hawaiian/	Pacific Islander	Asian Unknown	
Hispanic Ethnicity O Hispanic/Latino O Non-Hispanic/Latino O	Unknown	Arab Ethnicity O Arab	O Non-Arab	OUnknown	

#### If any one is unknown or blank, the metric will not be met.

# Limitations to the Metrics



"And this projected sales increase has a margin of error of 100%."

### Limitations

- MDSS data are dynamic (cases might be determined to be not a case later or after investigation are residents of a different jurisdiction)
- Case referred previously, but now has a laboratory result merged with case that changes case definition
- Interview partially completed
- Case is a resident of a nursing home and nursing home is unresponsive
- Delays in interview because of weekends/holidays
- Race/ethnicity information not routinely coming across in ELRs
- Contact tracing is happening at the setting-level (e.g. work site, healthcare facility) but individual contacts not being added to MDSS case report form
- MDSS stability/latency issues
- Probably many more...

# Related Thoughts



## Related Thoughts

- Prioritize investigation of new referrals and persons reported from high risk settings
- Consider using the Current Interview Status field to help quantify barriers to case investigation
  - Are phone numbers missing, inaccurate, or are persons not answering?
- Use person-locating software (TLO, LexisNexis) to find better contact information?
- Messaging campaigns to encourage folks to speak to investigators/tracers
- LHD staff dedicated to particular congregate care settings to expedite collection of information using proxy interview?
- Remote access to electronic medical records for hospitalized persons?

# Technical Assistance



## Needs Assessment by MDHHS

- MDHHS may reach out regarding LHD metrics
- Idea is to make sure the metrics are understood and that there is not a workforce capacity barrier



- If there is a capacity barrier, MDHHS has a team of internal staff that stand ready to help with case investigation and have done so for some LHDs for several weeks now
- If not a capacity issue, we would love to better understand the barriers and/or limitations to the metrics at the local level to help us improve our evaluation process
- Team: Jill Diesel, Mirissa Bosch, Shona Smith, Macey Ladisky, Katie Macomber, Joe Coyle

#### MDHHS Technical Assistance

- We will go over metric definitions, review the LHDs dashboard, have an open discussion about successes and barriers
- MDHHS will follow-up with notes from the meeting
- 2+ weeks post-call, MDHHS will follow-up with the LHD to summarize how their data has changed since the call

# Miscellaneous Plugs

#### Contact Information Continued

			_
First Name	Last Name	Phone Number Phone Type V Onset Date Age Symptomatic?	~
Middle Name			_
Relationship to	Case 🗸 Last Contact Date	Does Contact live or work in a high-risk setting? 🗸 County Health Department 🧸	
First Name	Last Name	Phone Number Phone Type V Onset Date Age Symptomatic?	_
Middle Name			_
Relationship to	Case V Last Contact Date	Does Contact live or work in a high-risk setting? V County Health Department V	
First Name	Last Name	Phone Number Phone Type V Onset Date Age Symptomatic?	~
Middle Name			-
Relationship to	Case V Last Contact Date	Does Contact live or work in a high-risk setting? V County Health Department V	
First Name	Last Name	Phone Number Phone Type V Onset Date Age Symptomatic?	~
Middle Name			_
Relationship to	Case V Last Contact Date	Does Contact live or work in a high-risk setting? V County Health Department V	
First Name	Last Name	Phone Number Phone Type V Onset Date Age Symptomatic?	_
Middle Name			_
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First Name	Last Name	Phone Number Phone Type Vonset Date Age Symptomatic?	
Middle Name			
Relationship to	Case 🗸 Last Contact Date	Does Contact live or work in a high-risk setting?  County Health Department	
First Name	Last Name	Phone Number Phone Type V Onset Date Age Symptomatic?	
Middle Name			-
Relationship to	Case 🗸 Last Contact Date	Does Contact live or work in a high-risk setting? 🗸 County Health Department 🧸	]
First Name	Last Name	Phone Number Phone Type V Onset Date Age Symptomatic?	_
Middle Name		Phone Number Phone Type V Onset Date Age Symptomatic?	-
Relationship to	Case 🗸 Last Contact Date	Does Contact live or work in a high-risk setting? 🗸 🛛 🖉 ounty Health Department 🤟	
First Name	Last Name	Phone Number Phone Type V Onset Date Age Symptomatic?	_
Middle Name		Phone Number Phone Type V Onset Date Age Symptomatic?	-
Relationship to	Case 🗸 Last Contact Date	Does Contact live or work in a high-risk setting? 🗸 County Health Department 🗸	
First Name	Last Name	Phone Number Phone Type Varset Date Age Symptomatic?	
Middle Name		Age Symptomatic?	-
Relationship to	Case 🗸 Last Contact Date	County Health Department	
		Add 5 more Contacts	

You now have the ability to add up to 100 contacts in the MDSS Case Report Form

Exposure Source (check all that apply)       If checked, outbreak name         Case is associated with a known cluster or outbreak       If checked, contact MDSS Investigation D(s)         Case is a community contact to a known COVD-19 lab-confirmed case-patient       If checked, contact MDSS Investigation D(s)         Case is a bousehold contact to a known COVD-19 lab-confirmed case-patient       If checked, contact MDSS Investigation D(s)         Case is a bousehold contact to a known (no other exposure sources checked above)       If checked, contact MDSS Investigation D(s)         If case is associated with a known cluster or outbreak, please select the category that best describes the outbreak:       If checked, contact MDSS Investigation D(s)         If Case is associated with a known cluster or outbreak, please select the category that best describes the outbreak:       If checked, contact MDSS Investigation D(s)         If Case is associated with a known cluster or outbreak, please select the category that best describes the outbreak:       If checked, contact MDSS Investigation D(s)         If Case is associated with a known cluster or outbreak, please select the category that best describes the outbreak:       If checked, contact MDSS Investigation D(s)         If Case is associated with a known cluster or outbreak, please select the category that best describes the outbreak:       If checked, contact MDSS Investigation D(s)         If Case is associated with a known cluster or outbreak, please select the category that best describes the outbreak:       If case is associate with a most on please select the category tha							
Case is a heath care contact to a known COVD-19 lab-confirmed case-patient       If checked, contact MDSS Investigation D(s)         Case is a household contact to a known COVD-19 lab-confirmed case-patient       If checked, contact MDSS Investigation D(s)         Case is a household contact to a known COVD-19 lab-confirmed case-patient       If checked, contact MDSS Investigation D(s)         Case is a household contact to a known COVD-19 lab-confirmed case-patient       If checked, contact MDSS Investigation D(s)         Case is a bousehold contact to a known (no other exposure sources checked above)       If checked, contact MDSS Investigation D(s)         If case is associated with a known cluster or outbreak, please select the category that best describes the outbreak:	Exposure Source (check all that apply)						
Case is a community contact to a known COVID-19 lab-confirmed case-patient       If checked, contact MDSS Investigation D(s)         Case is a household contact to a known COVID-19 lab-confirmed case-patient       If checked, contact MDSS Investigation D(s)         Source of case's COVID-19 infection is unknown (no other exposure sources checked above)       If checked, contact MDSS Investigation D(s)         If case is associated with a known cluster or outbreak, please select the category that best describes the outbreak:       If C/CSNF/assisted living/adult day care/group home         Agricultura/flood processing/migrant camp (e.g. farm, meat packing, hatchery, etc.)       Restaurant/bar         Primary or secondary school/College or university (e.g. classroom, dorms, boarding schools, before/afterschool programs, etc.)       (hickcare/Youth programs (e.g. daycares, day/overnight camps, extracurricular activities, sports programs, etc.)         Workplace (e.g. manufacturing, construction, office-building, retail, etc.)       (hickcare/youth programs (e.g. daycares, day, oversite retail, religious services, public beach/pool, etc.)         Social gathering (e.g. birthday party, graduation party, wedding, funeral, etc.)       (Community event/mass gathering (e.g. concert, rally, protest, parade, etc.)         Other, (specify)       (hor Applicable       (if yes, specify         Exposure information - in the 14 days prior to illness onset (or positive test result) did the patient have any of the following exposures where they may have acquired their infection.         Spent time at aduit congregate care facility (SNF, assisted living, L	Case is associated with a known cluster or outbreak	If checked, outbreak name					
Case is a household contact to a known COVID-19 lab-confirmed case-patient       If checked, contact MDSS Investigation ID(s)         Source of case's COVID-19 infection is unknown (no other exposure sources checked above)       If case is a sosciated with a known cluster or outbreak, please select the category that best describes the outbreak:         LTC/SNF/assisted living/adut day care/group home       Agricultural/food processing/migrant camp (e.g. farm, meat packing, hatchery, etc.)         Restaurant/bar       Primary or secondary school/College or university (e.g. classroom, dorms, boarding schools, before/afterschool programs, etc.)         Childcare/Youth programs (e.g. daycares, day/overnight camps, extracurricular activities, sports programs, etc.)       Othicare/Youth programs (e.g. daycares, day/overnight camps, extracurricular activities, sports programs, etc.)         Workplace (e.g. inpatient, outpatient, dental practices, dialysis, etc.)       Sheters/settings that provide services for people experiencing homelessness         Community exposure (e.g. nail/hair salon, spa, gym, non-worksite retail, religious services, public beach/pool, etc.)       Social gathering (e.g. concert, rally, protest, parade, etc.)         Other, (specify)	Case is a health care contact to a known COVID-19 lab-confirmed case-	patient If checked, contact MDSS Investigation ID(s)					
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LTC/SNF/assisted living/adult day care/group home         Agricultural/Todo processing/migrant camp (e.g. farm, meat packing, hatchery, etc.)         Restaurant/bar         Primary or secondary school/College or university (e.g. classroom, dorms, boarding schools, before/afterschool programs, etc.)         Workplace (e.g. manufacturing, construction, office-building, retail, etc.)         Jail/prison/detention center         Healthcare (e.g. inpatient, outpatient, dental practices, dialysis, etc.)         Schetters/settings that provide services for people experiencing homelessness         Community exposure (e.g. naithair salon, spa, gym, non-worksite retail, religious services, public beach/pool, etc.)         Social gathering (e.g. concert, rally, protest, parade, etc.)         Other, (specify)         Not Applicable         Exposure Information - In the 14 days prior to illness onset (or positive test result) did the patient have any of the following exposures where they may have acquired their infection.         Spent time at worksite       Yes       No       Unknown         if yes, specify       if yes, specify       if yes, specify       if yes, specify         spent time at a correctional facility       Yes       No       Unknown       if yes, specify         Spent time at a correctional facility       Yes       No       Unknown       if yes, specify         If yes, specify       if yes, specify	Source of case's COVID-19 infection is unknown (no other exposure sources checked above)						
Agricultural/food processing/migrant camp (e.g. farm, meat packing, hatchery, etc.)         Restaurant/bar         Primary or secondary school/College or university (e.g. classroom, dorms, boarding schools, before/afterschool programs, etc.)         Childcare/Youth programs (e.g. daycares, day/overnight camps, extracurricular activities, sports programs, etc.)         Workplace (e.g. manufacturing, construction, office-building, retail, etc.)         Jail/prison/detention center         Heatthcare (e.g. inpatient, outpatient, dental practices, dialysis, etc.)         Shetters/settings that provide services for people experiencing homelessness         Community exposure (e.g. nail/hair salon, spa, gym, non-worksite retail, religious services, public beach/pool, etc.)         Social gathering (e.g. concert, rally, protest, parade, etc.)         Other, (specify)         Not Applicable         Exposure Information - In the 14 days prior to illness onset (or positive test result) did the patient have any of the following exposures where they may have acquired their infection.         Spent time at worksite       Yes       No       Unknown         if yes, specify         if yes, specify       if yes, specify         if yes, specify       if yes, specify         Pres       No       Unknown         facture there at a correctional facility       Yes       No       Unknown         if yes, specify       if ye	If case is associated with a known cluster or outbreak, please select the cat	egory that best describes the outbreak:					
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Restaurant/bar         Primary or secondary school/College or university (e.g. classroom, dorms, boarding schools, before/afterschool programs, etc.)         Childcare/Youth programs (e.g. daycares, day/overnight camps, extracurricular activities, sports programs, etc.)         Workplace (e.g. manufacturing, construction, office-building, retail, etc.)         Jail/prison/detention center         Heathcare (e.g. inpatient, outpatient, dental practices, dialysis, etc.)         Schetters/settings that provide services for people experiencing homelessness         Community exposure (e.g. nail/hair salon, spa, gym, non-worksite retail, religious services, public beach/pool, etc.)         Social gathering (e.g. birthday party, graduation party, wedding, funeral, etc.)         Other, (specify)         Not Applicable         Exposure Information - In the 14 days prior to illness onset (or positive test result) did the patient have any of the following exposures where they may have acquired their infection.         Spent time at adult congregate care facility (SNF, assisted living, LTC, etc)       Yes       No       Unknown         If yes, specify		hery, etc.)					
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	Spent time at a correctional facility O Yes O No O Unknown						
O'Yes O'No O'Unknown							

Does this case have a known source of COVID exposure?

#### TraceForce

• MDHHS-developed contact tracing platform that is available to LHDs

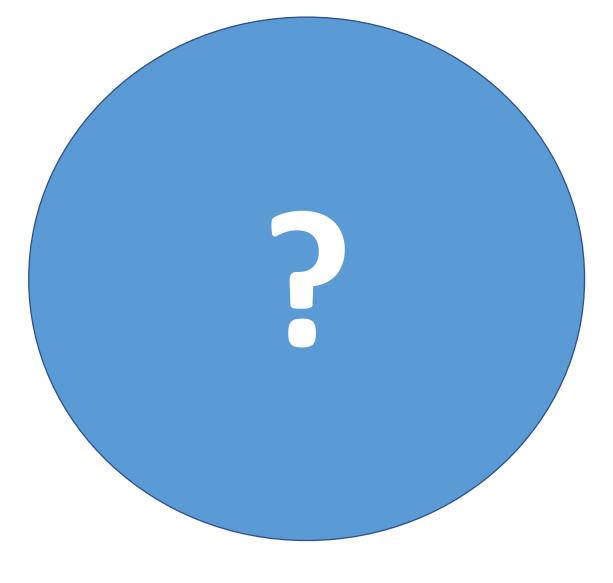
• Pros:

- Can use your own internal staff OR tap into statewide volunteer pool on demand
- Contacts documented in MDSS automatically port over to TraceForce
- Symptomatic contacts automatically generate new COVID cases in MDSS
- Simplify interjurisdictional referrals
- Enroll contacts in automated text messaging surveys vs. phone calling
- It's not OMS
- No Cost
- 22 LHDs are currently using TraceForce (16 using the Statewide volunteers, 6 using the LHD User Role)
- Please reach out to Matt Buck, Joe Coyle, Katie Macomber, or your regional epi if you'd like to learn more

#### LHD Case Investigation and Contact Tracing Calls

- Recurring meeting on Fridays from 1-2PM
- Some targeted discussion and presentations, but mostly an open forum for LHDs to share best practices and ask questions
- Help us better understand LHD needs for future development of systems (MDSS, OMS, TF)
- Development of standard procedures (e.g. interjurisdictional contact referral)
- If you don't have the meeting on your calendar e-mail Joe Coyle at <u>CoyleJ@michigan.gov</u>

## **Open Discussion**



# Thank you!

Joe Coyle MDHHS CoyleJ@Michigan.gov

