# COVID-19 MDSS Case Report Form (CRF) Interim Tip Sheet

#### Introduction

Due to the rapidly evolving nature of the COVID-19 outbreak, MDHHS has worked to make changes to the Michigan Disease Surveillance System (MDSS) case report form (CRF) for Novel Coronavirus – COVID-19. Additions have been made to collect more information regarding symptoms, exposures, contacts, and more.

As the CRF is updated, new fields are intended for use on new cases and are not expected to be completed retrospectively.

Fields within the CRF that are boxed in red are fields that are reviewed for case investigation metrics. This includes race, ethnicity, close contacts, date of first interview, and current interview status.

This tip sheet highlights fields that regional epidemiologists frequently receive questions about. If you have questions about fields that are not included in this tip sheet, please contact your <u>regional epidemiologist</u>.

## Investigation Information

- **Onset Date**: If a case does not have an onset date (e.g., asymptomatic case), it should be left blank. In the Clinical Information Section, select 'no' for the field *symptoms present during the course of illness*
- **State Prison Case**: check box only for inmates in Michigan Department of Corrections (MDOC) facilities. Leave unchecked for inmates in county jails and Michigan Department of Corrections employees.
- **Case Disposition**: Select 'inpatient' if it is determined that the patient is hospitalized due to their COVID-19 infection.
  - Note: There are many underlying conditions that may make symptoms more severe, it may be difficult to determine if the person's hospitalization is due to the underlying condition or due to the condition plus COVID-19 infection. If the reason for hospitalization is truly unrelated to COVID-19 infection (e.g., labor/delivery, gunshot would, car accident, broken bone, pre-surgical etc.), 'outpatient' should be selected for Case Disposition and the "Patient Hospitalized" question in the "Hospital Information" Section should be marked "No." Otherwise, the case should be marked as hospitalized.
  - o In the Hospital Information Section, if 'Patient Hospitalized' is 'Yes', then Case disposition must be 'inpatient'
  - The person should remain as "Inpatient" status even after discharge since inpatient status reflects history of COVID-19 infection hospitalization and not current hospital stay.
- Outbreak Name:
  - For cases associated with outbreak, assign a specific outbreak ID (e.g., include condition, location/event, month/year). Outbreaks names can be added to individual cases even if not yet considered an outbreak as they can help associate cases with specific settings or events.
  - MDHHS is no longer using generic outbreak names (e.g., WUHAN-19, COVID-19); if a case is not associated with an outbreak, the field can be left blank
  - Refer to the MDHHS SOP for additional information on outbreaks
- CDC/MI-nCoV-ID: leave blank, no longer necessary. This field was used in the beginning of the pandemic to indicate cases that were approved for testing.

### Hospital Information

• Patient Hospitalized: If case disposition is 'inpatient' then 'yes' must be selected

- Investigation Information							
Investigation ID	Onset Date (mm/dd/yyyy)	Diagnosis Date (mm/dd/yyyy)	Referral Date (mm/dd/yyyy)	Case Entry Date (mm/dd/yyyy)	J		
Investigation Status Active	×	◯ Confirmed - Non Res ◯ Suspect ◯ Un	sident ONot a Case Iknown ONon-Michigan Case	State Prison Case			
Patient Status Alive V	Patient Status Date (mm/dd/yyyy)	Case Disposition	Case Updated Date (mm/dd/yyyy)	Case Completion Date (mm/dd/yyyy)			
Investigator First Name:	Last Name:		Part of an outbreak?	Outbreak Name			
CDC/MI-nCoV-ID			State of residence	County of residence			

-		Hospital Informat	ion	
Patient Hospitalized O Yes O No O Unknown	Hospital	Hospital City	Hospital Record No.	Days Hospitalized
Hospital Admission Date (mm/dd/yyyy) Hospital Discharge Date (mm/dd/yyyy)		Patient Admitted to ICU O Yes O No O Unknown	ICU Admission Date (mm/dd/yyyy)	ICU Discharge Date (mm/dd/yyyy)
Is/was the patient isolated in the h	iospital?	Hospital isolation start date (mm/dd/yyyy)	Hospital isolation end date (mm/dd/yyyy)	Did the patient receive ECMO?
Did the patient receive mechanica	I ventilation(MV)/intubation?		Did the patient have an abno	

## **Clinical Information**

- Patient Died:
  - If the case dies within 30 days of their positive COVID-19 result, please mark 'Yes' in the 'Patient Died' field, along with the Date of Death. Please review this field for accuracy as it has a tendency to be mismarked
  - Note: It is not necessary to continuously follow-up with the case to determine the date of their symptom recovery; any case known to be still alive 30 days after their symptom onset or positive lab date will be included in the recovered case count by MDHHS
- Quarantine during symptom onset: helps to assess contact tracing efforts and to evaluate the impact of quarantine measures; this data can also contribute to the analysis of community transmission activity

Patient Died O Yes (Died) O No (Alive) O Unknown	Date of Death (mm/dd/yyyy)						
At time of symptom onset (or positive test date if asymptomatic), was patient in quarantine because of a possible COVID-19 exposure? O Yes O No O Unknown							
Symptoms present during course of illness? O Yes O No O Unknown							
Information on signs and symptoms							
Fever (subjective or measured)	If yes, specify highest temperature	Scale	Chills				

- Information on Signs and Symptoms:
  - Difference between chills and rigors Chills: feeling cold; Rigors: shaking chills, shivering
  - Difference between shortness of breath (dyspnea) and difficulty breathing Shortness of breath: cannot catch your breath or get enough air in your lungs, grasping for breath or unable to complete a sentence in one breath;
     Difficulty breathing: winded, labored breathing
- MIS-C: If a case (<21 years of age) is also reported as MIS-C, check 'yes' and enter the MIS-C Investigation ID
- **Did Symptoms Resolve and Date**: at the time of last interview, had symptoms resolved / date that symptoms resolved. If still sick, leave blank. There is no requirement for investigators to follow case to update.

	Children (MIS-C) in patient < 21 years old istem Inflammatory Syndrome reporting form)	
OYes ONo OUnknown ON/A		If yes, MIS-C investigation ID
Other clinical signs		
Did symptom(s) resolve? O Yes O No O Unknown	Date symptoms resolved (mm/dd/yyyy)	

• Pre-existing Health Status: check all pre-existing conditions. Disability was added as an option in February 2021

Pre-existing Health Status							
Information on pre-existing conditions (	Check all that apply)						
No pre-existing or chronic condition	15						
Asthma/Reactive Airway Disease	Autoimmune condition	Cancer	Cardiovascular Disease				
Chronic Liver Disease Chronic Lung Disease/COPD/Emphysema Chronic Renal Disease Diabetes Mellitus							
Hypertension	Neurologic Disease	Severe Obesity (BMI≥40)					
Other Chronic Disease (specify) Other Immunosuppressive Condition (specify) Psychological/psychiatric condition (specify)							
Disability (neurologic, neurodevelopmental, intellectual, physical, vision, or hearing impairment) (specify)							

# Epidemiologic Information

- COVID-19 strain/variant: Select the appropriate variant strain type from the drop-down menu. 'Suspected' should be used to denote variant cases among contacts of confirmed variant cases (epi-links).
- **Residence at time of onset**: indicate type of residence the case was staying at the time of onset or positive test this helps determine number of people that may have been exposed. If the case was residing in a dormitory, select Other and write in 'dormitory'.
- **High-risk setting**: indicate whether case lives or works in a high risk setting and complete fields for the type of facility. Additional facility types have been added based on prior case reports and to better characterize the role of congregate settings

What best describes where the patient wa	as staying at time of illness ons	et (or at time of positive test for	asymptomatic individuals)	?
O Acute care inpatient facility	Apartment	Assisted living facility	O Homeless shelter	O Hotel
O House/single family home	O Group home	O Long term care facility	O Mobile home	O Motel
O Nursing home	Outside, in a car, or other I	location not meant for human ha	abitation	O Correctional Facility
O Rehabilitation facility	OUnknown	Other (specify)		
Does the patient live or work in a high-risk	or congregate living facility?	If yes, is patient: O Resident O E	mployee O Unknown	If yes, name of facility:
Location of facility (address): Street Address	City		tate 🗸	Zip
Type of facility:				
LTC/skilled nursing	Federal prison	🗌 Juvenile	justice facility	
Acute care inpatient facility	Rehabilitation facil	ity 🗌 Group h	ome	
Assisted living	MDOC prison	🗌 Foster c	are setting	
Homeless shelter	County jail	Other (s	pecify)	

## **Exposure Information**

- **Exposure source:** Helps identify cases with a known exposure and cases with no known exposure for the purposes of evaluating transmission patterns; It is important to understand if cases are associated with a close contact or with an outbreak, and if associated to an outbreak, what kind. Reviewing the percent of cases with a known exposure can help assess the level of community transmission
  - For cases who are a healthcare, community, or household contact to confirmed case(s), include the MDSS ID of the source case(s)
  - For outbreaks with secondary transmission to household members or others outside the outbreak setting, select 'case is a household contact' and not 'case is associated with a known cluster or outbreak'
  - $\circ~$  If exposure source cannot be identified, select 'Source of case's COVID-19 infection is unknown'
- **Outbreak category**: select the category from the drop down that best describes the outbreak, refer to the outbreak section of the SOP for additional information.

Exposure Source (check all that apply)  Case is associated with a known cluster or outbreak Select the category that best describes the outbreak:	If checked, outbreak name or MDSS ID(s)
	Other, specify
Case is a health care contact to a known COVID-19 lab-confirmed case-patient	If checked, contact MDSS Investigation ID(s)
Case is a community contact to a known COVID-19 lab-confirmed case-patient	If checked, contact MDSS Investigation ID(s)
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 check	ed above)

• **Exposure Information**: to capture exposure information, select all locations/events that the case attended during the 14 days prior to illness onset (or positive test result) until the start of isolation.

Exposure Information - In the 14 days prior to illness onset (or positive test result) until the that apply. If patient visited one location on multiple dates, only list the location once.	date of isolation, did the patient visit/attend any of the following? Check all
Date of 14 days prior to onset (or positive test collection date) (mm/dd/yyyy)	Date of isolation (mm/dd/yyyy)
LTC/SNF/assisted living/adult day care/group home	
Jail/prison/detention center	
Shelters/settings that provide services for people experiencing homelessness	
Healthcare (e.g. inpatient, outpatient, dental practices, dialysis, etc.)	
Primary or secondary school/College or university outside of home (e.g. classroom, do	orms, boarding schools, before/afterschool programs, etc.)
Childcare/Youth programs (e.g. daycares, day/overnight camps, extracurricular activiti	ies, sports programs, etc.)
Agricultural/food processing/migrant camp (e.g. farm, meat packing, hatchery, etc.)	
Shared transportation (airplane, train, bus, etc)	
Restaurant/bar	
Social gathering (e.g. birthday party, graduation party, wedding, funeral, etc.)	
Community event/mass gathering (e.g. concert, rally, protest, parade, etc.)	
Sporting event or practice (as audience or player)	
Gym or exercise class	
Grocery store or retail	
Other Community exposure (e.g. nail/hair salon, spa, public beach/pool, etc.)	
UWorkplace outside of home other than types listed above (e.g. manufacturing, constru	ction, office-building, etc.)
Exposure to animal with confirmed or suspected COVID-19	
Other, (may include previously listed categories if more than 3 unique places were visi	ited)
None of the above	
Additional notes regarding exposure information:	

- Travel:
  - For cases with international or domestic travel, please provide the arriving and departing flight information for any flights that occurred during the case's infectious period (beginning 48 hours prior to onset date (or positive result date if asymptomatic). Flight number & seat numbers are also crucial for contact tracing efforts
  - o Travel by other mass conveyances (e.g., bus, train) should be documented in the case's notes tab (not shown)

Travel to non-U.S. country? O Yes O No O Unknown							
If yes, list all travels to non-U.S. countrie	18						
Country				Date of Arrival (mm/dd/yyyy)		Date of Departure (mm/dd/yyyy)	
			~				
			~				
			~				
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Travel to <u>states and U.S. cities</u> outside of home state?							
If yes, list all travels to states and U.S. c	ities						
U.S. States	U.	S. Cities		Date of Arrival (mm/dd/yyyy)		Date of Departure (mm/dd/yyyy	
~							
	) [						
•							
×							
O Yes O No O Unknown If yes, <i>list all travels <u>within Michigan</u></i> Location			Date of Arrival	(mm/dd/yyyy)	Date of	f Departure (mm/dd/yyyy)	
		]					
[		]					
		- <u> </u>					
		J					
		J					
Travel on cruise ship or vessel as passe O Yes O No O Unknown	nger or crew	member					
If yes, specify name of ship:	Port of call	:		Dates of travel, From (mm/dd/yy)	yy)	To (mm/dd/yyyy)	
Travel via airport/airline O Yes O No O Unknown							
If yes, Name of Airline	Flight Num	iber		Flight Seat Number		Date of Flight (mm/dd/yyyy)	
L]							

• **High Risk Referral**: This section is important for referring cases from MDHHS Case Investigators back to the Local Health Department. If a case has a high risk, select 'yes' along with the reason from the drop-down menu.

Case is a high-risk referral	High-risk referral reason:	
	~	]
Other reason for high-risk referral or additional information:	Congregate setting (dorm, jail, long term care, schools, foster care, etc.) Health care worker (nurses, EMT, etc.)	
Case is requesting a return to work letter O Yes O No O Unknown	Large groups (sports teams, weddings, large workplaces) School-aged children attending in-person classes = Death	
Case ID First Name Last Name N	Travel on airplanes	age 7
C	Other	

# Vaccine History

- The section is to be used to document information for COVID-19 vaccine only, not other routine vaccinations.
- Note: vaccine information can be retrieved from the Michigan Care Improvement Registry (MCIR) if an exact match of last name, first name, and date of birth is found. This can be done through the button in the Notes Tab.

-			Vaccine Hist	ory		
Vaccinated? O Yes	O <sub>No</sub> O <sub>Unknown</sub>					
Vaccination doses price	or to illness onset					
Was the patient vacci	nated per ACIP Guidelines?		Jnknown			
If not vaccinated per A	ACIP guidelines, what was t	he reason?				
O Foreign Visitor		🔾 Immigra	nt		Lab evidence of	previous disease
O MD diagnosis of	previous disease	O Medical	contraindication		Missed opportun	ity in medical setting
O Parent/Patient fo	orgot to vaccinate	O Parent/F	atient refusal		O Parent/patient re	port of previous disease
O Parent/Patient ur	naware of recommendation	O Philosop	hical objection		Religious exemp	tion
O Too Young		◯ Vaccine	record incomplete/unav	ailable	O Unknown	
Other, specify						
Vaccine Type A	Administered Date	Dose Number	Lot Number	Manufacturer		
						~
Case Repo	orting Address History HOMPSON, BARBARA	Demographics	Referrer Lab Repo			Person History ave Note Help
Previous Ca	ise Notes (Ascending):			/		
Case Docum	ents.		MCIR Vaccine		IR Vaccine Removal	Attach New Document
	Date	Name	MCIR Vaccine		scription	Attach New Document
			Cancel Help			

# Contact Information

Name of Contact* (First, Last, Middle)       Phone Number*       Phone Type       Onset Date       Age (Yrs)       Symptomatic?         Middle Name       Last Contact Date       Does Contact live or work in a high-risk setting?       County Health Department*         Relationship to Case*       Last Contact Date       Does Contact live or work in a high-risk setting?       County Health Department*         Gender       Gender       G. First Name       G. Last Name       Email       County Health Department vorker         Is Minor       Yes       No       Notes       Critical infrastructure worker       Age       Symptomatic? v         Gender       Last Contact Date       Does Contact live or work in a high-risk setting?       County Health Department*       County Health Department v         Is Minor       Yes       No       Notes       Critical infrastructure worker       County Health Department v         Gender       Last Contact Date       Does Contact live or work in a high-risk setting? v       County Health Department v         Is Minor       Yes       No       Notes       County Health Department v         Gender       Last Contact Date       Does Contact live or work in a high-risk setting? v       County Health Department v         Is Minor       Yes       No       Notes       Critical infrastructure worker	Subject has no close conta	cts	Subject refuse	d to provide contacts	)		
First Name       Last Name       Phone Number       Phone Type v       Onset Date       Age       Symptomatic? v         Middle Name       Relationship to Case v       Last Contact Date       Does Contact live or work in a high-risk setting? v       County Health Department v         Gender v       G. First Name       G. Last Name       Email         Is Minor O Yes O No       Notes       Critical infrastructure worker         First Name       Last Name       Phone Number       Phone Type v         Middle Name       Notes       Critical infrastructure worker	First Name     Last Name       Middle Name     Relationship to Case*       Relationship to Case     Case       Gender     Case	Last Contact Date Last Contact Date Guardian Name (First, Last) G. First Name G. Last	Phone Number Does Contact live o Does Contact live	Phone Type v r work in a high-risk e or work in a high Email	Onset Date	Age County Health E	Symptomatic?
Middle Name       Phone Number       Phone Type v       Onset Date       Age       Symptomatic? v         Relationship to Case v       Last Contact Date       Does Contact live or work in a high-risk setting? v       County Health Department v         Gender v       G. First Name       G. Last Name       Email       Email         Is Minor O Yes O No       Notes       Orritical infrastructure worker       Critical infrastructure worker         First Name       Last Name       Phone Number       Phone Type v       Onset Date       Age       Symptomatic? v         Middle Name       Last Contact Date       Does Contact live or work in a high-risk setting? v       County Health Department v         First Name       Last Contact Date       Does Contact live or work in a high-risk setting? v       County Health Department v         Gender v       Critical infrastructure worker       Onset Date       Age       Symptomatic? v	Is Minor OYes ONo			Critical infrast	ructure worker		
Middle Name     Phone Number     Phone Type v     Onset Date     Age     Symptomatic? v       Relationship to Case     V     Last Contact Date     Does Contact live or work in a high-risk setting? v     County Health Department v       Gender     V     Critical infrastructure worker	Middle Name Relationship to Case V Gender V	Last Contact Date Guardian Name ( <i>First,Last</i> ) G. First Name	Does Contact liv	e or work in a high Email Email	-risk setting? 🗸		
	Middle Name						
Add 5 more Contacts	Gender 🗸	Critical infrastructure work		Contacts			

- If a case has no close contacts or refuses to provide information, select the appropriate checkbox.
- Individual contacts may be listed in the CRF. The form allows for 25 contacts, but more may be added in increments of 5 (up to 50).
  - Name, phone number, Relationship to case and county Health Department are required fields.
  - If phone number is unknown, enter 555-55555.
  - o While 'last contact date' is not required, this information is vital to contact tracing and follow-up
  - o If contact lives or works in a high-risk setting, select appropriate option in the drop-down menu
  - Refer to Traceforce Contact Tracing Guidance Documents for additional information.
  - If the contact's age is not given by case, then the Is Minor question must be completed. Form changes will not be allowed to save until this question is answered.

## Other Information

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

- Local 1: this field is available for Local Health Departments to assign and use at their own discretion. If you do not have a local use for that field, leave blank.
- Local 2: if participating in MiCOVIDAlert app notifications, enter the client's MiCOVIDAlert Validation pin here. If your LHD is not participating or the client does not have MiCOVIDAlert app, leave field blank.
- Date of first interview: date that the investigator genuinely attempts outreach to the case
- Current interview status: select status of interview (provides details to potential barriers of case follow-up)
- Date of Interview: Indicate date that the investigator has talked to case or proxy and was able to document some information in the case report form