## HEPATITIS C CASE CLASSIFICATION AND REPORTING IN MDSS

LHD HCV WEBINAR SERIES

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## OVERVIEW

- Case definitions and reporting requirements
- Reporting hepatitis C cases into MDSS
- Classifying hepatitis C cases
- Deduplicating/merging cases
- MDSS updates/lab reporting

# CASE DEFINITIONS AND REPORTING REQUIREMENTS

### ACUTE HEPATITIS C CASE DEFINITION, 2020

#### **Clinical** Criteria

All hepatitis C virus cases in each classification category should be > 36 months of age, unless known to have been exposed non-perinatally.

One or more of the following:

- Jaundice, OR
- Peak elevated total bilirubin levels ≥ 3.0 mg/dL, OR
- Peak elevated serum alanine aminotransferase (ALT) levels >200 IU/L,

#### AND

The absence of a more likely diagnosis (which may include evidence of acute liver disease due to other causes or advanced liver disease due to pre-existing chronic Hepatitis C virus (HCV) infection or other causes, such as alcohol exposure, other viral hepatitis, hemochromatosis, etc.)

### ACUTE HEPATITIS C CASE DEFINITION, 2020

### Laboratory Criteria

*Confirmatory laboratory evidence:* 

- Positive hepatitis C virus detection test: Nucleic acid test (NAT) for HCV RNA positive (including qualitative, quantitative, or genotype testing), OR
- A positive test indicating presence of hepatitis C viral antigen(s) (HCV antigen)

Presumptive laboratory evidence:

• A positive test for antibodies to hepatitis C virus (anti-HCV)

### ACUTE HEPATITIS C CASE DEFINITION, 2020

### **Case Classification**

#### Probable

- A case that meets clinical criteria and has presumptive laboratory evidence, AND
- Does not have a hepatitis C virus detection test reported, AND
- Has no documentation of anti-HCV or HCV RNA test conversion within 12 months,

#### Confirmed

- A case that meets clinical criteria and has confirmatory laboratory evidence, OR
- A documented negative HCV antibody followed within 12 months by a positive HCV antibody test (anti-HCV test conversion) in the absence of a more likely diagnosis, **OR**
- A documented negative HCV antibody OR negative hepatitis C virus detection test (in someone without a prior diagnosis of HCV infection) followed within 12 months by a positive hepatitis C virus detection test (HCV RNA test conversion) in the absence of a more likely diagnosis,

### CHRONIC HEPATITIS C CASE DEFINITION, 2020

#### **Case Classification**

#### Probable

- A case that does not meet OR has no report of clinical criteria, AND
- Has presumptive laboratory evidence, AND
- Has no documentation of anti-HCV or RNA test conversion within 12 months, AND
- Does not have an HCV RNA detection test reported.

#### Confirmed

- A case that does not meet **OR** has no report of clinical criteria, **AND**
- Has confirmatory laboratory evidence, AND
- Has no documentation of anti-HCV or HCV RNA test conversion within 12 months.

### PERINATAL HEPATITIS C CASE DEFINITION, 2018

#### **Clinical Criteria**

Perinatal hepatitis C in pediatric patients may range from asymptomatic to fulminant hepatitis.

#### Laboratory Criteria For Diagnosis

- HCV RNA positive test results for infants between 2 to 36 months of age; OR
- HCV genotype test results for infants between 2 to 36 months of age or greater; OR
- HCV antigen test results for infants between 2 to 36 months of age or greater.

#### Epidemiologic Linkage

Maternal infection with HCV of any duration, if known. Not known to have been exposed to HCV via a mechanism other than perinatal (e.g. not acquired via healthcare).

#### **Case Classification**

#### Confirmed

Infant who has a positive test for HCV RNA nucleic acid amplification test (NAAT), HCV antigen, or detectable HCV genotype at  $\geq$ 2 months and  $\leq$ 36 months of age and is not known to have been exposed to HCV via a mechanism other than perinatal.

### REPORTING REQUIREMENTS FOR HEPATITIS C

### 2022 REPORTABLE DISEASES IN MICHIGAN – BY CONDITION A Guide for Physicians, Health Care Providers and Laboratories

Report the following conditions to the Michigan Disease Surveillance System (MDSS) or local health department (see reverse) within 24 hours if the agent is identified by clinical or laboratory diagnosis. See footnotes for exceptions.

Report the unusual occurrence, outbreak or epidemic of any disease or condition, including healthcare-associated infections.

Hepatitis C virus (all HCV test results including positive and negative antibody, RNA, and genotype tests) (6)

6) Report pregnancy status, if available.

# ENTERING HEPATITIS C CASES INTO MDSS

MODHHS	MDSS TEST APPLICA Michigan Disease Surveillan			Michigan.gov
Sase Investi	gation CAdministration	ArSystem Administration	Messages	AReports [→Logout
Cases	Investigation Information			
New Case	Reportable Condition*: - SELECT -	✓ Detail	Case Status*: - SELECT -	~
New Aggregate Cases	State Prison Case			
Searches	Patient Information Patient Status* : Alive  Patient	ent Status Date* (mm/dd/yyyy) : 07/06/2022	Case	Disposition* : - SELECT - V
New Search	First* :	Last* :	Middle :	
New Aggregate Search	Street :			
Disease Specific Search	City :	County :	State :	Zip :
	Home Phone (###-####-!!!!!):	Other Phone (###-####-####):	Email:	
Search Field Records	Onset Date (mm/dd/yyyy) :	Referral Date (mm/dd/yyyy) :		J
Case Definitions	Diagnosis Date (mm/dd/yyyy) :	Date of Death (mm/dd/yyyy) :		
Alert Rules	*indicates required items			
		Continue Cancel	Help	

Scase Investi	gation	Administration	ArSystem Administration	Messages	∼Reports	[→Logout
Cases	Demographics					
New Case	Race* :	Caucasian Black/African American	Sex	*: - SELECT - V	×	
New Aggregate Cases		American Indian/Alaska Native Native Hawaiian/Pacific Islander Asian		D Ethnicity : Unknown	✓	
Searches		Other Race Unknown				
New Search	Date of Birth / A	Refused to Answer				
New Aggregate Search	Date of Birth (mm		Age at Onset (if	DOB unknown) :	Age Unit :	~
Disease Specific Search	Parent/Guardiar	n (required if under 18)				
Search Field Records	First : Work / Occupati	L on or School / Grade	ast :	Middle :		]
Case Definitions	Worksites / Schoo	ol :				
Alert Rules	Occupations / Gra	ide :				
Blank Forms	Patient Identifie	rs				
User Profile	MDOC ID : *indicates require	d items				
User Directory			Continue Back Ca	ancel Help		

#### Referral received via Electronic Laboratory Reporting Person Providing Referral First : Last : Phone (###-####-####): Ext: Email : Primary Physician First : Last : Affiliation : Phone (###-###-####): Ext: Email : Street : City : County : State : Zip : $\sim$ $\sim$ **Case Notes** 11 Save & Finish Enter Lab Data Back Cancel Help

# CLASSIFYING HEPATITIS C CASES

#### 2020 Hepatitis C Case Classification Table

Updated classification rules to be applied in cases reported on	One or more of the following: Jaundice, <u>OR</u> Total bilirubin levels ≥3.0 mg/dL, <u>OR</u> ALT >200 IU/L, <u>AND</u> the absence of a more likely diagnosis <u>AND</u> age >36 months <sup>1</sup>					
01/01/2020 and thereafter.	No <u>OR</u> Unknown	Yes				
HCV Antibody <b>Positive</b> <sup>2</sup> <u>AND</u> HCV Nucleic Acid Test <b>Unknown</b> <u>OR</u> HCV Antigen Test <b>Unknown</b>	Probable, Chronic	Probable, Acute				
HCV Nucleic Acid Test <b>Positive</b> <sup>3</sup> OR HCV Antigen Test <b>Positive</b>	Confirmed, Chronic	Confirmed, Acute⁴				
HCV Nucleic Acid Test <b>Negative</b>	Not a Case	Not a case				
<ul> <li><sup>1</sup>All HCV cases should be &gt;36 months of age, unless known to have been exposed non-perinatally.</li> <li><sup>2</sup>Any antibody result, regardless of the signal-to-cutoff ratio; includes rapid tests</li> <li><sup>3</sup>Nucleic Acid Tests for HCV include Quantitative HCV RNA tests, Qualitative HCV RNA tests, and HCV Genotype tests</li> <li><sup>4</sup>Automatically classify as Confirmed, Acute for a seroconversion if a negative HCV lab test is followed within 12 months by a positive HCV lab test, in the absence of a more likely diagnosis</li> <li>* If evidence indicating resolution of infection is received within the calendar year of a case being reported, the case status should be changed to "not a case."</li> </ul>						

## CASE CLASSIFICATION SCENARIOS

#### Scenario 1

- A new case comes in with positive antibody and RNA lab results
- Person history shows a previous case from 2018 with that was chronic, probable
- What do you do?
  - Merge new case into the old case from 2018

	Case Disposition*:	OutPatient V
	Middle :	
32-2019	Patient Id : 15605120563	
		Dedup

#### Scenario 2

- A new case comes in with positive antibody and RNA lab results and no clinical information
- Person history shows a previous case from 2018 that was acute, confirmed
- What do you do?
  - Keep new case and classify as chronic, confirmed
  - >6 months since acute case was reported

#### Scenario 3

- A new case comes in with a positive antibody result
  - No clinical information
- Person history shows a previous case from 2020 that was chronic, not a case
- What do you do?
  - Classify the new case as chronic, probable

## CASE CLASSIFICATION SCENARIOS

#### New Negative HCV RNA Lab

- New negative RNA lab comes in for a case already in MDSS
- What do you do?
  - If the case has a referral date of this calendar year= change case status to not a case
  - If the case was from a previous year (already closed out, reported to CDC)
    - Case status does **NOT** change

#### Reinfections

- Existing case with lab evidence the person previously cleared HCV and are now re-infected
- What do you do?
  - Currently no different actions than a new lab coming in for an existing confirmed/probable case
  - Merge new lab/case to an existing confirmed/probable chronic case
- Reviewing how to handle reinfections, will likely change in the future

#### Case Created From a Negative Lab

- New case comes in with only a negative RNA or antibody lab result
- What do you do?
  - Close out as not a case
  - Notify MDHHS Viral Hepatitis Unit/Epis

# DEDUPLICATING/MERGING CASES

## HEPATITIS C DEDUPLICATION GUIDELINES

### Why are there duplicate cases?

- Automated patient deduplication in the MDSS does not always catch every possible patient match
  - For instance, cases referred with differences in middle names, and inmate number added to names, hyphenated last names, suffixes, etc.

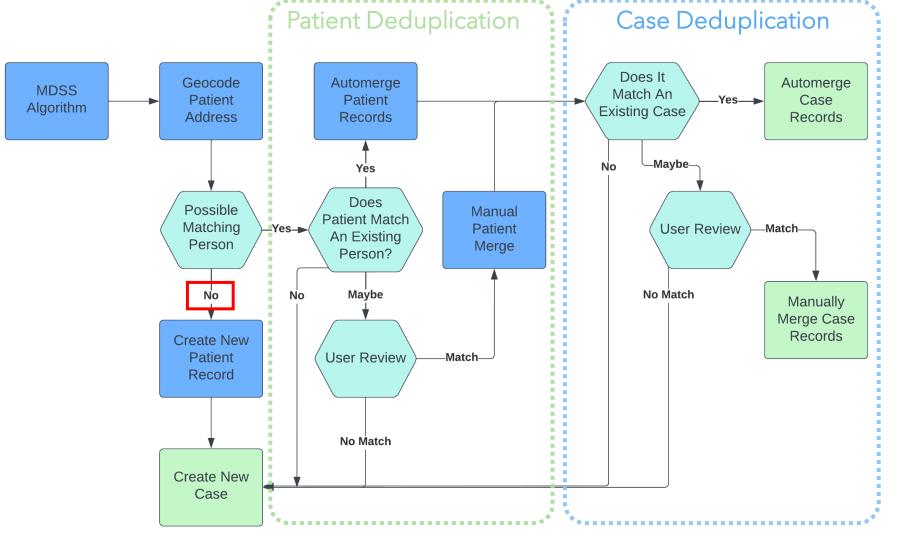
#### Dedup vs Supercede

- Use the dedupe button to deduplicate new cases when an appropriately classified case already exists for the patient
  - This should be the primary option
- Use a "Not a Case, Superceded" designation only to prevent loss of LHD-entered data in a duplicate case

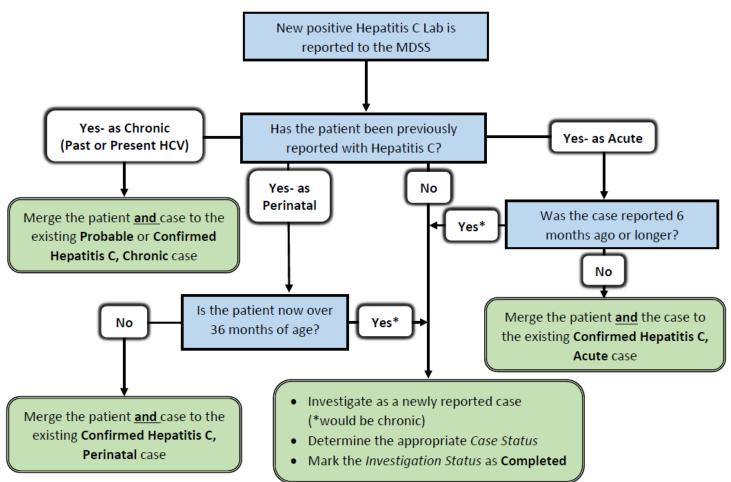
#### Considerations

- Confidence in match to previous case
- Status/Classification of previous case
- Timing of case reporting
- Data contained in new and old cases

## MDSS AUTOMATED DEDUPLICATION WORKFLOW

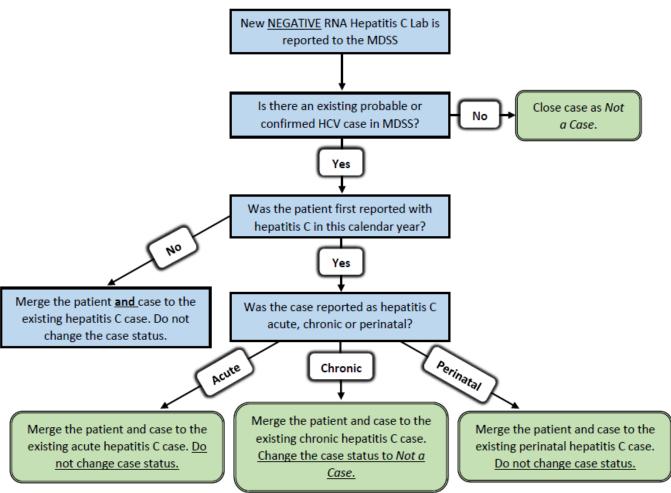


## DEDUPLICATING POSITIVE HEPATITIS C REPORTS



https://www.michigan.gov/mdhhs/keep-mi-healthy/chronicdiseases/hepatitis/hep-c/contents/screening > Deduplicating Hepatitis C Reports in MDSS

## DEDUPLICATING NEGATIVE HEPATITIS C REPORTS



https://www.michigan.gov/mdhhs/keep-mi-healthy/chronicdiseases/hepatitis/hep-c/contents/screening > Deduplicating Hepatitis C Reports in MDSS

se sel	ect the records to	merge with the data entered.				
erge	Score	First Name	Middle Name	Last Name	Date of Birth	Gender
	Case Status	Investigation Status	Disease	Referral Date	Investigator	Jurisdiction
X	100.0%	JOHN		DOE JR	01/01/1990	MALE
0	100%	JOHN	х	DOE JR.	01/01/1990	MALE
	Probable	New	Hepatitis C, Chronic	07/11/2022		Statewide
0	84.54%					MALE
0	<mark>81.18%</mark>			G 20035062		MALE
	Confirmed	Completed	Novel Coronavirus COVID-19	12/28/2021		Kent County
0	72.65%					MALE
	Confirmed	Completed	Novel Coronavirus COVID-19	10/21/2021		St Clair County
0	72.65%					MALE
	Confirmed	Completed	Tuberculosis	05/25/2005		Kent County
	Not a Case	Superceded	Tuberculosis	06/08/2005		Kent County
0	72.46%					UNKNOWN
	Suspect	New	Novel Coronavirus COVID-19	03/30/2022		Macomb County

Source	New Data	Existing
Patient Record ID		19852103088
Created Date	07/11/2022	07/11/2022
Last Modified Date	07/11/2022	07/11/2022
First Name	○ JOHN	JOHN
Middle Name	0	() X
Last Name	O DOE JR	DOE JR.
Date of Birth	01/01/1990	01/01/1990
Gender	⊖ MALE	MALE
Race		UNKNOWN
Ethnicity	O UNKNOWN	UNKNOWN
Arab Ethnicity		UNKNOWN
Home Phone	0	۲
Other Phone	0	۲
Parent/Guardian First Name	0	۲
Parent/Guardian Middle Name	0	
Parent/Guardian Last Name	0	
Patient Status	ALIVE	⊖ ALIVE
Patient MDOC ID	0	۲
Patient Addresses		
Addresses	MAKE CURRENT ADDRESS 555 MAIN ST	555 MAIN ST ANONYMOUS, MI
Patient Case Information		
Case Status		Probable
nvestigation Status		New
Disease		Hepatitis C, Chronic
Referral Date		07/11/2022
nvestigator Jurisdiction		HARTWICK, EDWARD F Statewide

Merged Record Details		
Status	ALIVE	
First Name	JOHN	
Middle Name	X	
Last Name	DOE JR.	
Date of Birth	01/01/1990	
Gender	MALE	
Race	UNKNOWN	
Ethnicity	UNKNOWN	
Arab Ethnicity	UNKNOWN	
Home Phone		
Other Phone		
Parent/Guardian First Name		
Parent/Guardian Middle Name		
Parent/Guardian Last Name		
MDOC ID		
	555 MAIN ST ANONYMOUS, MI	
Address(es)		

#### Case Deduplication for JOHN X DOE JR.

Select an existing JOHN X DOE JR. case as a match or choose to create a new case from the entered data.

Case Status	Disease	Referrar Date	Onset Date	Investigator	Jurisdiction	
	Hepatitis C, Chronic	07/11/2022		TBD	TBD	Create
robable	Hepatitis C, Chronic	07/11/2022		HARTWICK, EDWARD F	Statewide	Matches Existing
		Hepatitis C, Chronic	Hepatitis C, Chronic 07/11/2022 obable Hepatitis C, Chronic 07/11/2022	Hepatitis C, Chronic 07/11/2022 obable Hepatitis C, Chronic 07/11/2022	Hepatitis C, Chronic 07/11/2022 TBD	Hepatitis C, Chronic         07/11/2022         TBD         TBD           obable         Hepatitis C, Chronic         07/11/2022         HARTWICK, EDWARD F         Statewide

Case	New Data	Existing
Investigation Status	New	New
Case Status		Probable
Condition	Hepatitis C, Chronic	Hepatitis C, Chronic
Referral Date	07/11/2022	07/11/2022
Onset Date		
Investigator	TBD	EDWARD F, HARTWICK
Jurisdiction	TBD	Statewide
Case Details	View PDF	View PDF
Case to Keep	0	

# MDSS UPDATES / LAB REPORTING

## MDSS UPDATES AND LAB REPORTING

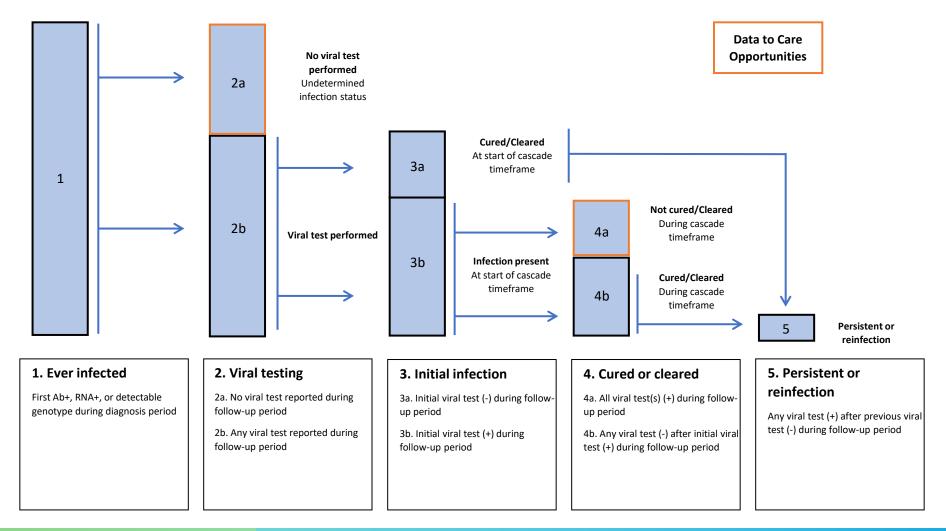
#### Changes to Diagnostics Section

- The diagnostics section of the case detail form is now static (uneditable) for manual entry of lab report data
- Lab reports must now be entered via "Create New Lab" button in the Lab Reports tab

#### Rationale For Change

- Relates to objectives for an ongoing CDC initiative to create viral hepatitis clearance cascades
  - Uniformity and consistency of hepatitis C lab reporting is vital
- Allows for expedited identification of persons with no documentation of cure or clearance of infection, and more focus on linkage to care

## SAMPLE CLEARANCE CASCADE



- Search for the patient in the MDSS by name and/or DOB
  - If the person does not exist within the MDSS, proceed to create a new case with the appropriate classification, enter demographic information, click "Enter Lab Data" and "Create New Lab Report"
- Navigate to the lab reports tab of the corresponding patient
  - If the case is in completed status, you will need to change to completed-follow up to enter lab data and then back to completed after finishing



- To create:
  - Click "create new lab report" and select the appropriate test from the "Select Ordered Test" drop down (Always select an option from this drop-down menu)
    - If "Other" is selected, this result will not populate the case report form and may result in inability to close the case under the correct classification
    - The drop-down list is populated with common test names for the condition that is currently being entered or edited. Test and result names that are specific to the condition being reported are listed first followed by generic tests
    - Always use the most detailed result provided. (In order from least detail to most detail: HCV Ab, HCV RNA [Presence], HCV RNA [Units/volume], HCV Genotype

Lab Order Informati	on	
		Filter Test List By: Filter Clear
Select Ordered Test* :	Hepatitis C virus RNA [Presence] in Body fluid by Probe an	nd target amplification method
Test Name* :		Click here to see list of test names
Hepatitis C virus RNA	[Presence] in Body fluid by Probe and target amplification method	
Lab Report Date (mm/d	d/yyyy):	

- Complete the provider/lab/specimen information to the best of your ability
- Lab report date: the date the result was produced (if this is missing, use the date that information was acquired)
  - Whenever possible, complete the specimen collection date
- Click "New Result" and enter the result as completely as possible
  - Always use the coded result or numeric result section when possible
  - If entering a numeric result, the first drop down is the numeric symbol (=, >, <), the second drop down is most commonly used for a decimal (see below), while the third drop down denotes the units
- Click "Add Result"

New Result	
Reported Test Name :	Filter Test List By:       Filter       Clear         Select Test:       Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification <ul> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Section 100 (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Plasma by</li></ul>
O Coded Result :	Filter Result List By:     Filter     Clear       Select Result:
O Text Result :	
Numeric Result :	= 🗸 555555 . 🗸 5 iu/mL 🗸
Comments :	
Relevant Clinical Information :	

- Be sure to click "Save & Finish New Lab"
  - The lab will not be saved if you skip this step
- If entered correctly using coded selections from the drop-down menu/numeric result section the lab data should be present in the case report form

Results			New Result
Reported Test Name : Hepatitis C virus RNA [Units/volum	ne] (viral load) in Serum or Plasma by Prob	e with amplification	Edit Delete
Numeric Result :		= 555555 . 5 iu/mL	
Reference Range :			
Comments :			
Relevant Clinical Information :			
	Save & Finish New Lab Cancel H	elp	

#### Example 1: HCV Ab lab result added with coded result

New Result	
Reported Test Name :	Filter Test List By:       Filter       Clear         Select Test:       Hepatitis C virus Ab [Presence] in Body fluid <ul> <li>Hepatitis C virus Ab [Presence] in Body fluid</li> <li>Virus A</li></ul>
Coded Result :	Filter Result List By: Clear Select Result: POSITIVE POSITIVE
O Text Result :	
O Numeric Result :	× · · · · · · · · · · · · · · · · · · ·

Hepatitis C		
Antibody to hepatitis C virus [anti-HCV]		06/23/2022
Anti-HCV signal to cut-off ratio		
Supplemental anti-HCV assay [e.g., RIBA]	<b>~</b>	
HCV RNA [e.g., PCR]	<b>∼</b>	
Quantitative Hepatitis C RT-PCR	<b>~</b>	
Qualitative Hepatitis C RT-PCR	<b>~</b>	
Hepatitis C Virus Genotype		

#### Example 2: HCV RNA lab result added with numeric result

New Result	
Reported Test Name :	Filter Test List By:       Filter       Clear         Select Test:       Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification <ul> <li>Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplification</li> <li>Iterative content of the serum of the se</li></ul>
O Coded Result :	Filter Result List By: Filter Clear Select Result:
O Text Result :	
Numeric Result :	= 🗸 200 🔽 🔍 🔍

Hepatitis C		
Antibody to hepatitis C virus [anti-HCV]		
Anti-HCV signal to cut-off ratio		
Supplemental anti-HCV assay [e.g., RIBA]		
HCV RNA [e.g., PCR]		
Quantitative Hepatitis C RT-PCR	POSITIVE V	06/23/2022
Qualitative Hepatitis C RT-PCR		
Hepatitis C Virus Genotype		

#### Example 3: HCV RNA lab result added with text result

New Result			
Reported Test Name :		lear ce] in Body fluid by Probe and target amplification method	~
O Coded Result :		Clear v	
Text Result :	positive		
O Numeric Result :	~		~
atitis C			
ody to hepatitis C virus [a	nti-HCV]		
Anti-HCV signal to cut-off	ratio		
lemental anti-HCV assay	[e.g., RIBA]	<b>~</b>	
RNA [e.g., PCR]		<b></b>	
Quantitative Hepatitis C F	IT-PCR	<b></b>	
Qualitative Hepatitis C RT	PCR	POSITIVE V	06/23/2022
titis C Virus Genotype			

### Example 4: HCV Genotype lab result added with coded result

New Result				
Reported Test Name :	Filter Test List By: Filter Cle Select Test: Hepatitis C virus genotype [Iden Hepatitis C virus genotype [Identifier] in Serum		fication method	•
Coded Result :	Filter Result List By: Filter Filter Select Result: Hepatitis C virus genotype 1 Hepatitis C virus genotype 1	Clear		
O Text Result :				
O Numeric Result :	¥	×	~	
	~		~	
Numeric Result :     Hepatitis C Antibody to hepatitis C vi			~ 	
Hepatitis C	rus [anti-HCV]			
Hepatitis C Antibody to hepatitis C vi Anti-HCV signal to c	rus [anti-HCV] ut-off ratio			
Hepatitis C Antibody to hepatitis C vi Anti-HCV signal to c Supplemental anti-HCV a	rus [anti-HCV] ut-off ratio			
Hepatitis C Antibody to hepatitis C vi Anti-HCV signal to c Supplemental anti-HCV a	rus [anti-HCV] ut-off ratio assay [e.g., RIBA]			
Hepatitis C Antibody to hepatitis C vi Anti-HCV signal to c Supplemental anti-HCV a HCV RNA [e.g., PCR]	rus [anti-HCV] ut-off ratio assay [e.g., RIBA] s C RT-PCR			

## TROUBLESHOOTING

- If you are unable to close a case because the diagnostics section is not complete:
  - Check to be sure the lab results are completed using the correct coded names and results
    - If the issue is with an ELR, click to edit the lab and make necessary changes
- Periodically there may be issues with system interpretation of electronic messaging from labs
  - If labs and results are recorded correctly but not mapping to the correct field of the case report form, report the issue to your regional epidemiologist

### GUIDANCE NOW AVAILABLE! (MICHIGAN.GOV/HEPATITIS > HEPATITIS C > REPORTING)

#### MDSS Manual Laboratory Entry Quick Guidance

#### Methods For Manual Entry of Laboratory Data:

We encourage manual entry of all hepatitis C testing results that are not present in the results may be obtained in a variety of ways (example: fax, email, verbal report from a receipt of laboratory data:

- 1. Search for the patient in the MDSS by name and/or DOB
  - a. If the person does not exist within the MDSS, proceed to create a new or classification, enter demographic information, click "Enter Lab Data" an proceed by following the guidelines below (start at step 5)
- Navigate to the lab reports tab of the corresponding patient

#### Case Reporting Address History Demographics Referrer Lab Reports Notes

- a. If the case is in completed status, you will need to change to complete then back to completed after finishing
- 3. Locate the HCV result on the faxed lab
  - a. If the result is a reactive (positive) HCV Ab result, only enter the lab if the
  - b. If the result is a RNA or genotype result, always enter the result whether
- To create:
  - Click "create new lab report" and select the appropriate test from the (Always select an option from this drop down menu)
    - If "Other" is selected, this result will not populate the case repo inability to close the case under the correct classification
    - ii. The drop down list is populated with common test names for th being entered or edited. Test and result names that are specific are listed first followed by generic tests
    - Always use the most detailed result provided. (In order from lea HCV RNA [Presence], HCV RNA [Units/volume], HCV Genotype

					Filter Test List By
Select O	rdered Test* :	Hepatitis C virus F	RNA [Presence] in B	ody fluid by Probe a	nd target amplificati
Test Nan	ne <sup>1</sup> :				Click here to s
Hepatitis	s C virus RNA	[Presence] in Body fit	uid by Probe and target	t amplification method	
Lab Rep	ort Date (mm/d	(d/yyyyy) :			
Compl	lete the pr	rovider/lab/spe	cimen informati	on to the best o	f your ability giv
			cimen informati he circumstance		
	provided (	depending on th ort date: the dat		e, some of this m	nay be omitted)
been p a.	provided ( Lab repo acquired	depending on th ort date: the dat d)	he circumstance	e, some of this m s produced (if th	nay be omitted) his is missing, us

Michigan Department of Health and Human Services – Viral Hepatitis Unit - <u>mdhhs-</u> Updated: June 29, 2022

- a. Always use the coded result or numeric result section when possible. The MDSS mapping process does not analyze free text fields for auto-population of the case report form, and this may result in inability to close the case under the correct classification
- If entering a numeric result, the first drop down is the numeric symbol (=, most commonly used for a decimal (see below), while the third drop dow
   Sample Lab Result Entry and Mapping

Reported Test Name :	Filter Test List By: Filter Clear Select Test Hepatitis C virus RNA [Units-Volume] (viral load) in Serum or Plasma by Probe
	Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe with amplit
O Coded Result :	Filter Result List By: Filter Clear Select Result V
O Text Result :	
Numeric Result :	= v 555555 . v 5
Comments :	
Relevant Clinical	

- c. The MDSS can recognize some values in a text result as valid, but we stro numeric results whenever possible
- d. See examples of lab result entry and mapping to the case report form in
- 7. Click "Add Result"
- 8. Be sure to click "Save & Finish New Lab" (if not, the lab will not be entered)

#### Results

9

Reported Test Name : Hepatitis C virus RNA [Units/volum	e] (viral load) in Serum or P	Plasma by P	robe wit	h amplifica	tion
Numeric Result :				= 555555	. 5 iui
Reference Range :					
Comments :					
Relevant Clinical Information :					
	Save & Finish New Lab	Cancel	Help		

If entered correctly using coded selections from the drop down menu/numeric rebe present in the case report form

Visua	al Sample		st Dropdown on Lab		Diagnostic Tests
			Order Tab	-	ection
Example 1		Hepatitis C vi Body fluid	irus Ab [Presence] in	Antibody to he [anti-HCV]	patitis C virus
Example 2			irus RNA [Presence] in		itative Hepatitis C
			Probe and target	RT-PCR	
		amplification			
Example 3		Hepatitis C vi			titative Hepatitis
		[Units/volum Immunoassay	e] in Serum by	RT-PCR	
Example 4		Hepatitis C vi	,	Hepatitis C Viru	us Genotype
			Serum or Plasma by		
		Probe and tar	rget amplification		
		method			
		Other		Not mapped	
Now Robult Reported Test Name :		Filter C virus Ab (Presence (Presence) in Body fluid	e) in Body fluid		¥
	Select Test Hepatit Hepatitis C virus Ab	tis C virus Ab [Presence [Presence] in Body fluid [Filter]	e) in Body fluid		~
Reported Test Name :	Select Test Hepatri Hepatris C virus Ab Fifter Result List By: Select Result [POS	tis C virus Ab [Presence [Presence] in Body fluid [Filter]	e) in Body fluid	_	~
Reported Test Name :  Codde Result :  Test Result :  Numeric Result :  Numeric Result :	Select Test Hepatitis Hepatitis C vines Ab Pither Result List By: Select Result: [POS [POSITIVE]	Itis C virus Ab [Presence [Presence] in Body fluid [	e) in Body Ruid		• •
Reported Text Name :  Coded Result :  Taust Result :  Numeric Result :  Numeric Result :  nostic Section poj	Select Text: Hepatilit Hepatitus C voue As Pher Preve Luit dy Select Result [POS POSITIVE UNIT OF CONTRACT OF CONTRACT OF CONTRACT POSITIVE PUBLIC OF CONTRACT OF CONTR	Itis C virus Ab [Presence [Presence] in Body fluid [	e) in Body Rud		
Reported Test Name :  Codeo Result :  Tost Result :  Numeric Result :  Numeric Result :  Augustitis C  Intibiody to hepatilis C virtue	Select Text, Hepathi Integrating Crown Ab Pher Plexal List dy Select Result (POS POSITIVE pulation in CRF: us (anti-HCV)	Itis C virus Ab [Presence [Presence] in Body fluid [	e) in Body Ruid		v [6623.022
Reported Text Name :  Coded Result :  Taust Result :  Numeric Result :  Numeric Result :  nostic Section poj	Select Text, Hepathi Integrating Crown Ab Pher Plexal List dy Select Result (POS POSITIVE pulation in CRF: us (anti-HCV)	Itis C virus Ab [Presence [Presence] in Body fluid [	e) in Body Rud		v (062).002
Reported Test Name :  Codeo Result :  Tost Result :  Numeric Result :  Numeric Result :  Augustitis C  Intibiody to hepatilis C virtue	Select Text, Hepathi Hepathic Crown Ap Pher Result Link dy Select Result (POS POSITIVE pulation in CRF: us (anti-HCV) Leffratio	Itis C virus Ab [Presence [Presence] in Body fluid [	e) in Body Rud		v (062)2022
tepuded Test Name :  Coded Result :  Tout Result :  Numeric Result :  Numeric Result :  Numeric Cestion pop Reputitie C  Intibudy to hepatitie C vin  An6-HCV signal to cut	Select Text, Hepathi Hepathic Crown Ap Pher Result Link dy Select Result (POS POSITIVE pulation in CRF: us (anti-HCV) Leffratio	Itis C virus Ab [Presence [Presence] in Body fluid [	e) in Body Rud		v (002).002
Coded Result : Coded Result : Text Result : Numeric Result : Numeric Result : Numeric Result : Numeric Result : AnStic Section pop AnSHCV signal to out AnSHCV signal to out	Select Test, Hepathi Hepathin C waw As Fiber Result List By Select Result [POS [POSITIVE] pulation in CRF: Loff ratio ssay (c.g., RIBA]	Itis C virus Ab [Presence [Presence] in Body fluid [	POSITIVE V		
eported Test Name :  Coded Result :  Test Result :  Noteric Result :  Nostic Section poy epotitie C  An6HCV signal to cut upplemental an6HCV as CV RNA[e.g., PCR]	Select Test, Hepatili Hepatitic Course As Fiber Result Lind By Select Result (POS [POSITIVE] pulation in CRF: us (arti-HCV) Loff ratio staty (c.g., RBA) C RT-PCR	Itis C virus Ab [Presence [Presence] in Body fluid [	POSITIVE V		

## THANK YOU!

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