

MDSS Training For Health Care Providers

updated June 2024



Michigan Disease Surveillance System

A tool for public health surveillance in Michigan

- Makes reporting of diseases/conditions easier, more efficient, and closer to real-time so public health interventions can be implemented
- Reduces delays in initiation of public health follow-up by correctly reporting to county of residence rather than county of diagnosis
- Allows reporting 24 hours/day from any computer with an internet connection
- Clarifies whether the case reported involves multiple providers/facilities
- Provides documentation of a facility's role in reporting for regulatory and accreditation agencies
- Allows instantaneous retrieval of summary reports of diseases
- Reduces the volume of necessary telephone communications for additional information between LHD and facility-based ICP

MDSS Healthcare Provider (HCP) Responsibilities

- **Confidentiality**

- MDSS contains confidential public health information on reported individuals. Data are protected by system security and role-defined access, but participants will continue to be bound by rules of confidentiality while accessing system information
- **MDSS does comply with HIPAA regulations**

- **Participation**

- To realize the goals of this system, patient information must be entered in a timely manner
- HCP reporting responsibilities remain unchanged (Communicable Disease Rules R325.171 et al.)
- Your enthusiastic support helps make MDSS a more productive and effective method of communicable disease surveillance

Accessing MDSS

- Software and System Requirements
 - Internet Access
 - Internet Explorer 8.0 or later (IE 8 is the officially supported browser for the system, but there are currently no known issues with any other versions)
- MILoginUser ID and Password
- Authorization to use the MDSS
 - Healthcare providers must partner with their local health department to register and use MDSS

Health Care Provider Rights and Privileges

As a Health Care Provider

- Enter cases
- Rights to any case that you or another user that shares your facility has entered
 - *See ELR for more on this*
- Access to edit cases that you have rights to until the Local Health Jurisdiction closes the investigation
- Ability to run reports on the cases that you have rights to
- Ability to run reports on de-identified aggregate data from around the state

How to access, navigate in, and exit the MDSS

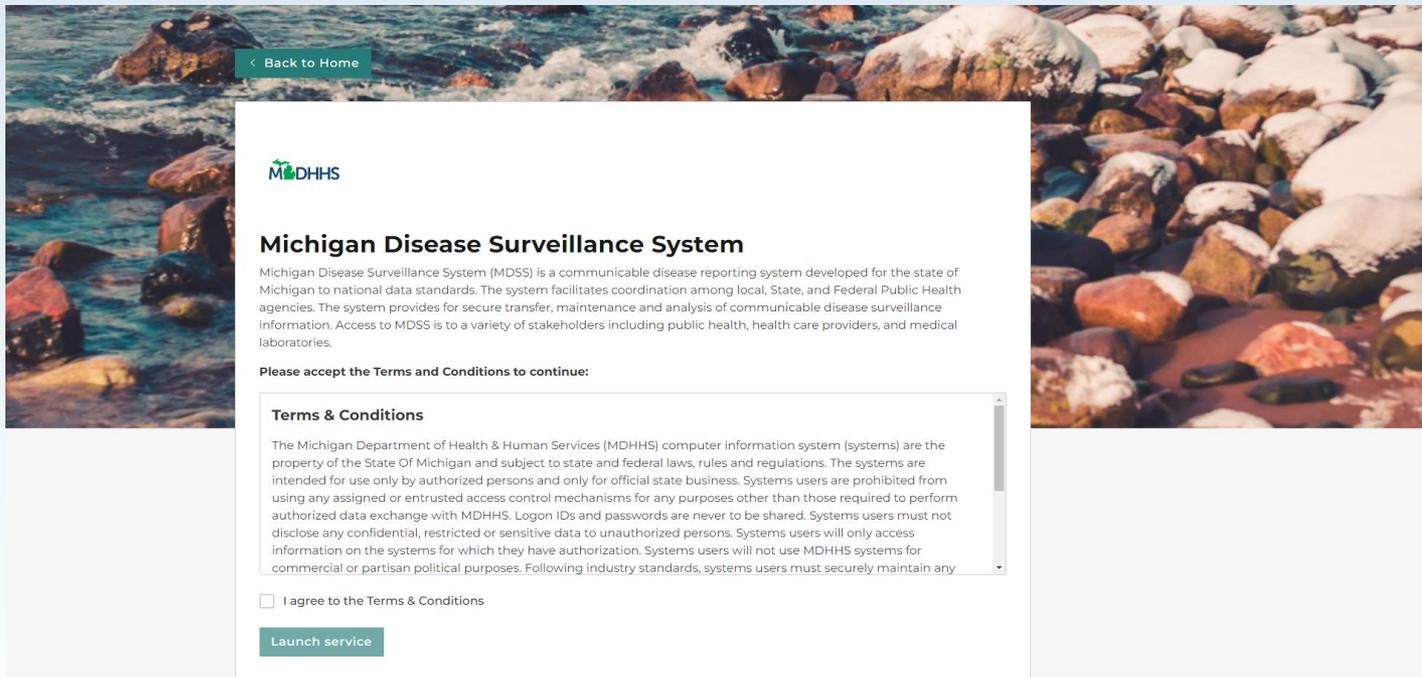
Entering MDSS

- MiLogin for Non-Michigan.gov emails - <https://milogintp.michigan.gov/>
- MiLogin for Michigan.gov emails - <https://miloginworker.michigan.gov/>
- Log in with your MiLogin User ID and Password

The screenshot displays the MiLogin for Business website. On the left, a dark blue banner features the Michigan state logo and the text "MiLogin for Business". Below this, a white box contains the heading "Michigan's one-stop login solution for business" with a right-pointing arrow. Underneath, a paragraph explains that MiLogin for Business connects users to various State of Michigan business services through a single user ID. On the right side of the page, a white login form is visible. It includes a "Welcome to MiLogin for Business" message, a "User ID" input field with a "Lookup your user ID" link, a "Password" input field with a "Forgot your password?" link, a green "Log In" button, and a "Create an Account" button. The footer contains "Copyright 2024 State of Michigan" and a "Policies" link.

System Use Notification

- Before accessing the MDSS, and other MILogin applications, users must acknowledge a set of system use requirements regarding secure access, data use, and system monitoring
- Click **I agree to the Terms & Conditions** to continue
- Complete the third-party authentication verification via the phone method of your choice (call or text).



< Back to Home

MDHHS

Michigan Disease Surveillance System

Michigan Disease Surveillance System (MDSS) is a communicable disease reporting system developed for the state of Michigan to national data standards. The system facilitates coordination among local, State, and Federal Public Health agencies. The system provides for secure transfer, maintenance and analysis of communicable disease surveillance information. Access to MDSS is to a variety of stakeholders including public health, health care providers, and medical laboratories.

Please accept the Terms and Conditions to continue:

Terms & Conditions

The Michigan Department of Health & Human Services (MDHHS) computer information system (systems) are the property of the State Of Michigan and subject to state and federal laws, rules and regulations. The systems are intended for use only by authorized persons and only for official state business. Systems users are prohibited from using any assigned or entrusted access control mechanisms for any purposes other than those required to perform authorized data exchange with MDHHS. Logon IDs and passwords are never to be shared. Systems users must not disclose any confidential, restricted or sensitive data to unauthorized persons. Systems users will only access information on the systems for which they have authorization. Systems users will not use MDHHS systems for commercial or partisan political purposes. Following industry standards, systems users must securely maintain any

I agree to the Terms & Conditions

Launch service

Part of System User Agreement

- After choosing “Michigan Disease Surveillance System” the following text below heads the System Use Message Box
- Michigan Disease Surveillance System (MDSS) is a communicable disease reporting system developed for the state of Michigan to national data standards. The system facilitates coordination among local, State, and Federal Public Health agencies. The system provides for secure transfer, maintenance and analysis of communicable disease surveillance information. Access to MDSS is to a variety of stakeholders including public health, health care providers, and medical laboratories. System users are charged with supporting public health surveillance activities. **All users agree to only use the MDSS for appropriate purposes and will not disclose information contained in it for unauthorized reasons. Use of data in support of research/publication shall not be conducted without cooperation and agreement between impacted public health agencies.**

Terms & Conditions – Part of System User Agreement

- After agreeing to the Michigan Disease Surveillance System header Use
- Read Terms & Conditions Box for additional information for system user agreement

Please accept the Terms and Conditions to continue:

Terms & Conditions

The Michigan Department of Health & Human Services (MDHHS) computer information system (systems) are the property of the State Of Michigan and subject to state and federal laws, rules and regulations. The systems are intended for use only by authorized persons and only for official state business. Systems users are prohibited from using any assigned or entrusted access control mechanisms for any purposes other than those required to perform authorized data exchange with MDHHS. Logon IDs and passwords are never to be shared. Systems users must not disclose any confidential, restricted or sensitive data to unauthorized persons. Systems users will only access information on the systems for which they have authorization. Systems users will not use MDHHS systems for commercial or partisan political purposes. Following industry standards, systems users must securely maintain any

I agree to the Terms & Conditions

Launch service

MDSS Portal Page

- The Portal Page is the initial landing page for users
- The user can choose which component to enter (only components that the user has access to, or has requested access to, will be displayed)
- Components include: MDSS, Outbreak Management (OMS), MiCelerity (overdose and poisonings) and CSV Loader
 - *Note: OMS allows for outbreak management and contact tracing – access is available from your regional epidemiologist*
- Click on 'Disease Surveillance' to continue to MDSS

The screenshot shows the MDSS Portal interface. At the top is a blue navigation bar with a hamburger menu icon on the left, the text "MDSS Portal" in the center, and a notification bell icon with a red "12" badge, a user profile icon with "JL", and a "Logout" button on the right. Below the navigation bar, the main content area is white. In the center, it says "Hello, Joyce Lai [LAI]". Below this, there are four teal-colored rectangular cards arranged horizontally. Each card has a title and a description: "MDSS" (Michigan Disease Surveillance System), "OMS" (Outbreak Management System), "MiCelerity" (Overdose and Poisoning Surveillance), and "CSV Loader" (CSV-based Lab Results Uploader).

Initial MDSS Screen

MDSS TRAINING
Michigan Disease Surveillance System

Case Investigation
Messages
Reports
Logout

Cases

Displaying results 1-10 of 42 found

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Unassigned Cases

Investigation Status Sort All Open Investigations Search Help

Standard Export without Labs

Investigation Status	Case Status	Investigation ID	Referral Date	Patient Name	Date of Birth	Disease	Investigator	County		
New	Confirmed	10306210	09/22/2004	MILES, MICHELLE COLETTE	08/01/1981	Salmonellosis	COLLINS, JIM	Easton	Edit	View
New	Confirmed	3215796	09/20/2007	CAT, SYLVESTER		Salmonellosis	COLLINS, JIM	Ingham	Edit	View
New	Confirmed	6048480	01/07/2011	ALDENS, ERIN	05/28/1955	HIV/AIDS, Adult	COLLINS, JIM	Lenawee	Edit	View
New	Confirmed	6072161	01/13/2011	CRONDELL, EMMA	05/28/1977	HIV/AIDS, Adult	COLLINS, JIM	Ingham	Edit	View
New	Confirmed	6122587	03/03/2011	CRONDELL, GARY	03/04/1988	HIV/AIDS, Adult	COLLINS, JIM	Ingham	Edit	View
New	Confirmed	6125275	03/03/2011	CRONDELL, ERIN		Cryptosporidiosis	COLLINS, JIM	Ingham	Edit	View
New	Confirmed	6127771	03/03/2011	CRONDELL, ERIN	05/06/1955	HIV/AIDS, Adult	COLLINS, JIM	Calhoun	Edit	View
New	Confirmed	6152329	03/24/2011	BOHM, SUSAN	05/25/1975	Salmonellosis	COLLINS, JIM	Ingham	Edit	View
New	Confirmed	7235838	09/05/2012	MERICA, JANE	07/29/1984	Gonorrhea	COLLINS, JIM	Allegan	Edit	View
New	Confirmed	7240114	09/06/2012	ERIC, PARNELLE		Chlamydia (Genital)	HENDERSON, TIFFANY A	Calhoun	Edit	View

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New Case

New Aggregate Cases

Searches

New Search

New Aggregate Search

Disease Specific Search

Search Field Records

Case Definitions

Blank Forms

User Profile

User Directory

The Top Navigation Bar

 Case Investigation

 Messages

 Reports

 Logout

The Top Navigation Bar links to different modules:

- **Case Investigation**

Contains all of the functions to enter and manage cases. Add, change, and search the communicable disease information stored within MDSS

- **Messages**

System maintenance notifications

- **Reports**

Contains most of the reports available on MDSS. Specify the type of report you wish to create and what information you would like to include on the report

- **Logout**

Terminates your session and returns you to the *Single Sign On Portal*

The Side Navigation Bar

The Side Navigation Bar displays links to available functions within the current module

Case Investigation

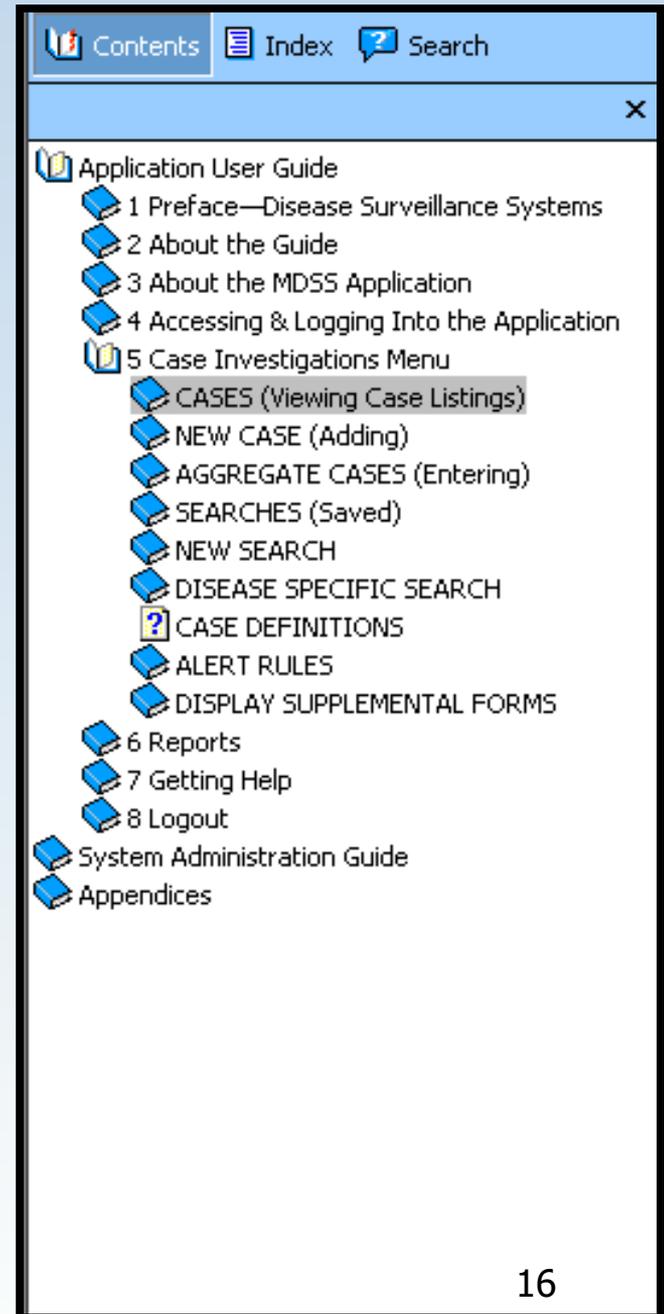
Cases
Unassigned Cases
New Case
New Aggregate Cases
Searches
New Search
New Aggregate Search
Disease Specific Search
Search Field Records
Case Definitions
Blank Forms
User Profile
User Directory

Reports

1. Line Listing
2. Diseases by Demographics
3. Diseases YTD
4. Diseases - 5 Year History
5. Diseases YTD by Geography
6. Disease History by Geography
7. Diseases by Geography
8. Epi Curve
Aggregate Case Report
Audit Report
GIS Map of Diseases by Geography
TB Reports

On Line Help

- The User Guide is accessible on-line. It can be searched by the table of contents, by the index, or by keyword
- Click the **HELP** button is present throughout the application for assistance relative to the current screen



MDSS Security

- Browser buttons (Back, Forward, Refresh, etc.) are not available for use in MDSS
- For security, MDSS and MILogin will automatically log you out if your session remains inactive for more than 30 minutes
 - Save your work frequently
 - You will lose unsaved work if you're automatically logged out
 - Always save your work and log out of MDSS and the MILogin portal if you leave your computer

Clearing Your Browser's Temporary Internet Cache

- A full memory (cache) can interfere with uploading the case investigation data
- We recommend that you periodically empty this cache
 - Open your internet browser
 - Select 'Tools' then 'Internet Options'
 - Select 'Temporary internet files,' 'Delete files,' and check 'Delete all offline content'



Logging Out

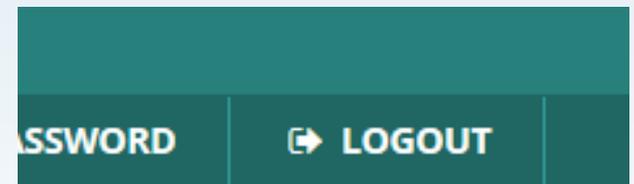
- 1) **Logout** of disease surveillance application of MDSS



- 2) **Logout** of the MDSS Dashboard



- 3) **Logout** of the the MILogin Portal



The Message Function

- Allows MDHHS Administrators to create messages that are displayed for all users
- The Messages module will display all System Messages from the past several months
- The 'New Messages Waiting' link displayed on bottom of case listings page indicates that a new message has been added since your last login
- These messages are rare and likely important
- Messages are seen by ALL MDSS users

New Message Waiting

Displaying results 1-10 of 3150 found
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Case Listings Referral Date Sort All Open Investigations Search Export Help
Include Labs in Export

Investigation Status	Case Status	Investigation ID	Referral Date	Patient Name	Date of Birth	Disease	Investigator	County		
Active	Confirmed	7851	08/13/2004	ENDRAPOV, PIKOV P.	02/04/1954	Hepatitis C, Chronic	CARLSON, BRAD	Oakland	Edit	View
New	Confirmed	20647	08/16/2004	STEIN, FRANK N	06/27/1979	Hemorrhagic Fever	CARLSON, BRAD	Kent	Edit	View
Active	Not a Case	21996	08/16/2004	SQUIRREL, ROCKY	05/18/1966	Meningitis - Aseptic	CARLSON, BRAD	Washtenaw	Edit	View
New	Confirmed	6789748	08/16/2004	FIELDS, SALLY	01/01/1999	Meningitis - Bacterial Other	COLLINS, JIM		Edit	View
Active	Probable	39913	08/17/2004	BENN, GEORGE W		Meningitis - Bacterial Other	CARLSON, BRAD	Wayne	Edit	View
New	Confirmed	41635	08/17/2004	SACKIE, COX	05/15/1966	Meningitis - Aseptic	CARLSON, BRAD	Washtenaw	Edit	View
Active	Confirmed	8931102	08/18/2004	BOOP, BETTY	12/10/1955	Shigellosis	HENDERSON, TIFFANY A	Washtenaw	Edit	View
New	Confirmed	52936	08/25/2004	BOLONEY, JOE		Botulism - Foodborne	COLLINS, JIM	Livingston	Edit	View
New	Confirmed	54245	08/31/2004	OUT, TIME	04/03/1968	Cryptococcosis	CARLSON, BRAD	Oakland	Edit	View
New	Probable	59063	09/02/2004	DOE, JANE M	05/03/1960	Influenza, Novel	COLLINS, JIM	Jackson	Edit	View

[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [\[Next >>\]](#) [\[Last >\]](#)
[New Message Waiting](#)

Link indicates that there is a new message waiting to be viewed in Messages tab. The link disappears when the user logs out.

Messages

[Case Investigation](#)

[System Administration](#)

[Messages](#)

[Reports](#)

[Logout](#)

[Cases](#)
[New Case](#)
[New Aggregate Cases](#)
[Searches](#)
[New Search](#)
[New Aggregate Search](#)
[Disease Specific Search](#)
[Case Definitions](#)
[Alert Rules](#)
[Display Supplemental Forms](#)
[User Profile](#)
[User Directory](#)

Messages List

Date	User Name	Subject	Active	
Mon Dec 29 10:23:04 EST 2008	MARTENC	New Message Waiting	true	View
Mon Dec 29 10:12:56 EST 2008	MARTENC	MDSS Version 2.3	true	View
Mon Feb 18 14:29:15 EST 2008	KELLERR1092	Important Announcement	true	View
Tue Dec 04 12:49:35 EST 2007	BOLENT1	New message feature	true	View

View Message

[Print Message](#)

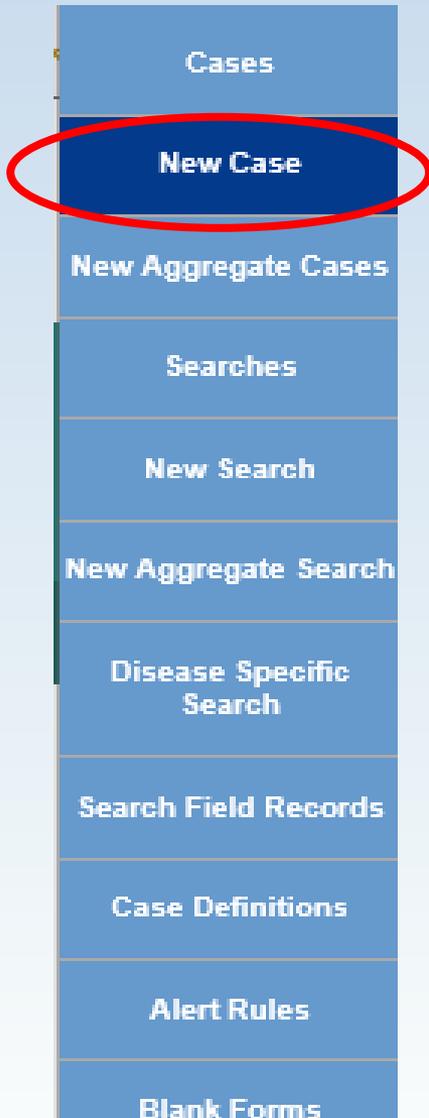
Date:
UserID:
Subject:

Message Text

Welcome to MDSS version 2.3. This latest release of the MDSS includes several enhancements including the addition of a system messaging module, a change in aggregate reporting, and the addition of a case report form for the reporting of active cases of Tuberculosis as of January 1, 2008. For additional details on this release please see the News and Notes section of our website at www.michigan.gov/mdss.

Entering a New Case

New Case Entry



- The New Case function allows new cases to be manually added to MDSS
- The New Case entry process is divided into three sections

New Case Entry – Screen One

Investigation Information			
Reportable Condition*: - SELECT -	Detail	Case Status*: - SELECT -	
<input type="checkbox"/> State Prison Case			
Patient Information			
Patient Status* : Alive	Patient Status Date* (mm/dd/yyyy) : 11/05/2019	Case Disposition* : - SELECT -	
First* : <input type="text"/>	Last* : <input type="text"/>	Middle : <input type="text"/>	
Street : <input type="text"/>			
City : <input type="text"/>	County : <input type="text"/>	State : <input type="text"/>	Zip : <input type="text"/>
Home Phone (###-###-####): <input type="text"/> Ext: <input type="text"/>	Other Phone (###-###-####): <input type="text"/> Ext: <input type="text"/>		
Onset Date (mm/dd/yyyy) : <input type="text"/>	Referral Date (mm/dd/yyyy) : <input type="text"/>		
Diagnosis Date (mm/dd/yyyy) : <input type="text"/>			
*indicates required items			
Continue Cancel Help			

Besides required fields, make sure **address** fields are also complete

This allows case to be sent to the proper health department

Validation

- Clicking **CONTINUE** initiates a validation process
- You must correct errors prior to proceeding

Investigation Information

Error: You must correct the following error(s) before proceeding:

- A value for Reportable Condition must be selected.
- A value for Patient Case Status must be selected.
- A value for Case Disposition must be selected.
- Patient First Name is required.
- Patient Last Name is required.

Reportable Condition*: - SELECT - **Case Status*:** - SELECT -

State Prison Case

Patient Information

Patient Status*: Alive **Patient Status Date* (mm/dd/yyyy):** 11/05/2019 **Case Disposition*:**

First*: **Last*:** **Middle:**

Street:

City: **County:** **State:**

Home Phone (###-###-####): **Ext:** **Other Phone (###-###-####):** **Ext:**

Onset Date (mm/dd/yyyy): **Referral Date (mm/dd/yyyy):**

Diagnosis Date (mm/dd/yyyy):

***indicates required items**

Example error message

Screen One Key Field Definitions

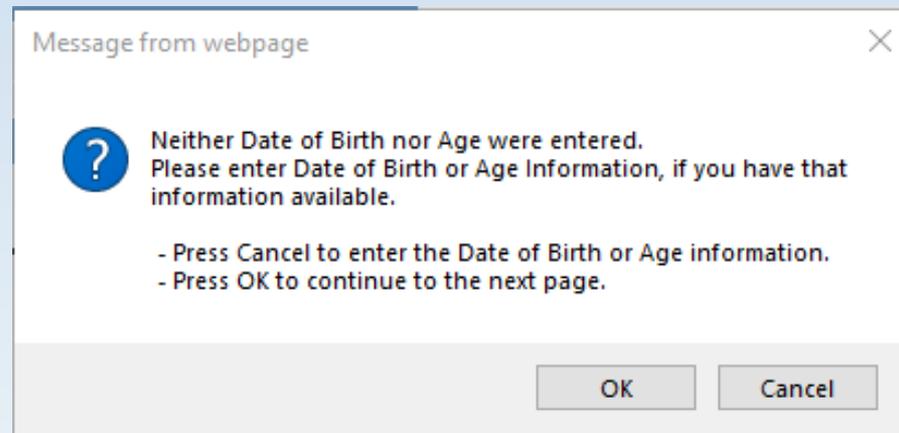
- Fields in **Red** with * are required fields. Case entry will not proceed unless they are complete ('unknown' is generally an option)
- **Case Status** – refers to the case definition criteria (Confirmed, Confirmed-Non Resident, Not a Case, Probable, Suspect, Unknown)
- **Patient Status** – refers to whether the patient is alive or dead
- **Patient Status Date** – automatically set to current date during case entry and updated when a change is made to the “Patient Status” *Note: date can also be entered manually*
- **Case Disposition** – refers to inpatient/outpatient status
- **Referral Date** – is an editable field generally indicating the date the case was referred to the LHD

New Case Entry – Screen Two

Demographics			
Race* :	<ul style="list-style-type: none">American Indian or Alaska NativeAsianBlack/African AmericanCaucasianHawaiian or Pacific IslanderOtherUnknown	Sex* :	- SELECT - ▾
		Hispanic Ethnicity* :	- SELECT - ▾
		Arab Ethnicity :	Unknown ▾
Date of Birth / Age			
Date of Birth (mm/dd/yyyy):	<input type="text"/>	Age at Onset (if DOB unknown):	<input type="text"/>
		Age Unit :	<input type="text"/>
Parent/Guardian (required if under 18)			
First :	<input type="text"/>	Last :	<input type="text"/>
		Middle :	<input type="text"/>
Work / Occupation or School / Grade			
Worksites / School :	<input type="text"/>		
Occupations / Grade :	<input type="text"/>		
Patient Identifiers			
MDOC ID :	<input type="text"/>		
*indicates required items			
<input type="button" value="Continue"/> <input type="button" value="Back"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>			

Date of Birth/Age Information Reminder Box

If **Date of Birth**, **Age**, and **Age Units** is not complete, a Reminder Box will display when you continue to the next entry screen



- If information is available, click **CANCEL** to return to the New Case Entry screen and enter the information
- If information is not available, click the **OK** button to continue to the next screen

Screen Two Key Field Definitions

- **Age** - Reflects the age at illness onset by subtracting Onset Date from Date of Birth (when available). Referral Date is used if onset is unavailable
- **Age Unit**: Pertains to the measurement of the age of the patient at illness onset (in days, months, or years). If **Date of Birth** is not available, Age and Age Units can be entered directly. Age units should be:
 - **Days** if Age is less than or equal to 30 days
 - **Months** if Age is less than 2 years
 - **Years** if Age is greater than or equal to 2 years

New Case Entry – Screen Three

- Enter your information under the “Person Providing Referral”

Note: Use the “User Profile” and your information will be auto-populated for each new case

- Enter Primary Physician Information: Name and Phone Number at minimum
- Enter lab data by clicking the “Enter Lab Data”

Referral received via Electronic

Person Providing Referral

First : Last :

Phone (###-###-####): Ext: Email :

Primary Physician

First : Last :

Affiliation :

Phone (###-###-####): Ext: Email :

Street :

City : County : State :

Case Notes

Lab Reports

Create New Lab Report Help

Date Received Ordered Test Name Electronic

Save & Finish Back Cancel

1. Click **Create New Lab Report**

2. Add Lab Order info with pull-down menu or manually by choosing 'Other'

3. Add Ordering Provider info

4. Enter Lab info with pull-down menu or manually by choosing 'Other'

5. Add Specimen info

6. Click **New Result**

Lab Order Information

Filter Test List By: [] Filter Clear

Select Ordered Test*: Chlamydia sp DNA [Presence] in Unspecified specimen by Probe & target amplification method

Test Name*: Chlamydia sp DNA [Presence] in Unspecified specimen by Probe & target amplification method

Lab Report Date (mm/dd/yyyy): [] 

A pop-up reminder will display if lab report date is left blank

Ordering Provider

First: Physician Last: Physician

Affiliation: Bronson Street: []

City: Kalamazoo County: Allegan State: Michigan Zip: 49080

Phone number: [] Ext: []

Laboratory Information

Select Lab*: Bronson Hospital Laboratory Filter Lab List By: [] Filter Clear

Lab Name*: Bronson Hospital Laboratory

Street: 801 John Street Geocode Source: []

City: Kalamazoo County: [] State: Michigan Zip: 49007

Phone number: 269-341-6440

Specimen Information

Specimen Collection Date (mm/dd/yyyy): [] 

Specimen Source: Urethral swab

Specimen Site: []

Specimen Site Text: []

Specimen ID: []

Results

Add New Lab Cancel Help

New Result

7. Add Lab Result info and relevant information

8. Click **Add Result**

New Result

Reported Test Name : *Filter Test List By:*
Select Test:
Chlamydia sp DNA [Presence] in Unspecified specimen by Probe & target amplification method
Chlamydia sp DNA [Presence] in Unspecified specimen by Probe & target amplification method

Coded Result : *Filter Result List By:*
Select Result: Chlamydia
Chlamydia

Text Result :

Numeric Result :

Comments : 8/14/2019 1g Zithromax

Relevant Clinical Information : Also notified partner

9. Review lab result info that was added to bottom of lab report

10. Click **Add New Lab**

Specimen Information

Specimen Collection Date (mm/dd/yyyy): 

Specimen Source:

Specimen Site:

Specimen Site Text:

Specimen ID:

Results New Result

Reported Test Name : Chlamydia trachomatis+Neisseria gonorrhoeae rRNA [Presence] in Unspecified specimen by DNA probe Edit Delete

Coded Result :	Chlamydia species
Numeric Result :	
Reference Range :	
Comments :	8/14/2016 1g Zithromax
Relevant Clinical Information :	Also notified partner

Add New Lab Cancel Help

11. Click **Save & Finish**

Lab Reports Create New Lab Report Help

Date Received	Ordered Test Name	Electronic		
08/18/2016	Chlamydia trachomatis+Neisseria gonorrhoeae rRNA [Presence] in Unspecified specimen by DNA probe	No	Edit	Delete

Save & Finish Back Cancel

Background Processing

Once a case is entered, the following processes occur behind the scenes:

- **Geocoding:** Validates the address and assigns coordinates to map it, supports referral to correct LHJ
- **De-Duplication:** identifies duplicate patients and case reports. If a case must be de-duplicated it will not be immediately available for editing
- **Case Referral:** Determines the referral LHJ based on the Investigation Address and assigns the case to the LHJ Administrator

More information about these processes can be found in the section *Background Processing* in *Chapter 5* of the User Guide or by viewing Online Help.

Geocoding: Determining the Investigation Address

- The Investigation Address is set by address availability in the following order:
 1. Patient Address
 2. Provider Address (on Referral or Lab Report)
 3. Laboratory Address (for electronic laboratory reports only)
- Investigation address determines LHJ referral

Geocoding – Multiple Address Matches

If the investigation address matches multiple coordinates returned by the Geocoder, the matching addresses are presented to the user for mandatory selection:

Possible Address Matches - Choose one from each set of addresses	
Patient Addresses	
Possible Patient Address 1	<input type="radio"/> 200 E HOLMES RD LANSING, MI 48910 Ingham County
Possible Patient Address 2	<input type="radio"/> 200 W HOLMES RD LANSING, MI 48910 Ingham County

Continue Back Cancel

- Choose the correct address by selecting the appropriate radio button and click the **CONTINUE** button
- **If uncertain:** select the address in your LHJ, click the **CONTINUE** button and investigate further by contacting the patient or provider
- **If no address is offered within your LHJ:** click the **BACK** button, remove zip code and city, enter one of your LHJs Counties and investigate further

Geocoding - Geocode Source

The “Geocode Source” indicates how the address was mapped

The screenshot shows a patient record for Patient BENN, GEORGE. The form is divided into several sections: Case Reporting, Address History, Demographics, Referrer, Lab Reports, Notes, Map, Audit, and Person History. The 'Address History' section is currently active. The 'Investigation Address' section contains the following information: Street: WINDING RD, City: JACKSON, County: Wayne, State: Michigan, Zip: 48236. The 'Geocode Source' is listed as 'MDSS Zip Code', which is circled in red. Other fields include Reportable Condition* (Meningitis - Bacterial Other), Case Status* (Probable), Investigation Status* (Active), Patient Status* (OutPatient), Patient Status Date* (08/17/2004), First* (GEORGE), Last* (BENN), Middle* (W), Onset Date, MMWR (33-2004), Patient Id (39911), Diagnosis Date, Investigation ID (39913), NETSS ID (38), and Assigned to (CARLSON, BRAD / Statewide). Buttons for 'Cancel' and 'Help' are located at the bottom.

Case Reporting	Address History	Demographics	Referrer	Lab Reports	Notes	Map	Audit	Person History
Patient BENN, GEORGE								
Reportable Condition* : Meningitis - Bacterial Other <input type="button" value="Detail"/>			Case Status* : Probable			Investigation Status* : Active		
Patient Information								
Patient Status* : OutPatient			Patient Status Date* (mm/dd/yyyy) : 08/17/2004					
First* : GEORGE			Last* : BENN			Middle : W		
Onset Date (mm/dd/yyyy) : 			MMWR : 33-2004			Patient Id : 39911		
Diagnosis Date (mm/dd/yyyy) : 								
Investigation Address								
Street : WINDING RD				Geocode Source : MDSS Zip Code				
City : JACKSON		County : Wayne		State : Michigan		Zip : 48236		
Jurisdiction : Wayne County				<input type="checkbox"/> State Prison Case				
Investigation Information								
Outbreak Y/N : U			Outbreak Name : 					
Referral Date (mm/dd/yyyy) : 08/17/2004			Case Entry Date (mm/dd/yyyy) : 08/17/2004					
Investigation ID : 39913			NETSS ID : 38			Assigned to : CARLSON, BRAD / Statewide		
<input type="button" value="Cancel"/> <input type="button" value="Help"/>								

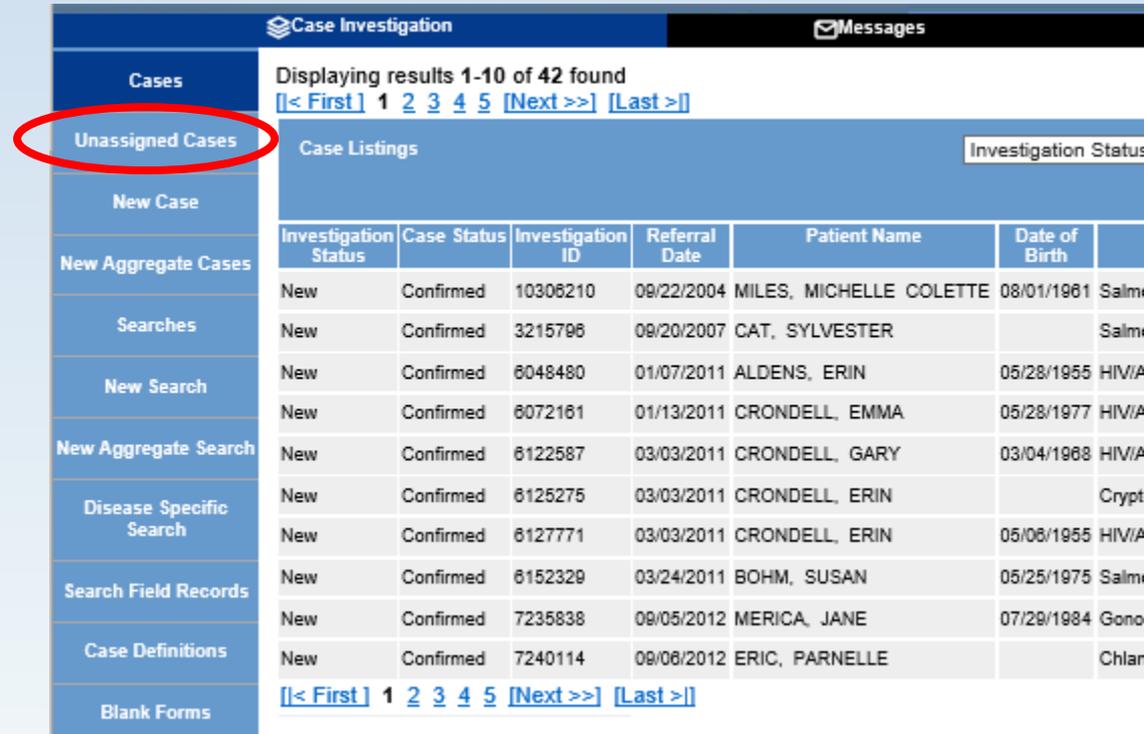
Geocode Source Values

- **CGI** – The address, county and LHJ could be mapped by the Center for Geographic Information (CGI). The case map will show case. This is the most accurate information
- **MDSS City** – A match was not identified but the county and LHJ was assigned based on the City. The case map will not show case
- **MDSS ZIP Code** – A match was not identified but county and LHJ was assigned based on ZIP code. The case map will show the case in the ZIP code center***
- **Blank** – No match, the case is referred to State personnel
 - Out of State Addresses
 - Address so incomplete cannot determine county

*** Important for Jurisdiction Assignment

Unassigned Cases

- The unassigned case listing shows HCP users a list of cases that have been entered into the MDSS that are potential duplications and are currently unavailable because they are in the de-duplication queue.
- To access the list click on the Unassigned Cases button



The screenshot displays the 'Case Investigation' interface. On the left is a navigation menu with the following items: Cases, Unassigned Cases (highlighted with a red circle), New Case, New Aggregate Cases, Searches, New Search, New Aggregate Search, Disease Specific Search, Search Field Records, Case Definitions, and Blank Forms. The main content area shows 'Displaying results 1-10 of 42 found' with navigation links: '<< First', '1', '2', '3', '4', '5', 'Next >>', and 'Last >|'. Below this is a table titled 'Case Listings' with columns: Investigation Status, Case Status, Investigation ID, Referral Date, Patient Name, Date of Birth, and an unlabeled column. The table contains 10 rows of case data.

Investigation Status	Case Status	Investigation ID	Referral Date	Patient Name	Date of Birth	
New	Confirmed	10306210	09/22/2004	MILES, MICHELLE COLETTE	08/01/1961	Salme
New	Confirmed	3215796	09/20/2007	CAT, SYLVESTER		Salme
New	Confirmed	6048480	01/07/2011	ALDENS, ERIN	05/28/1955	HIV/A
New	Confirmed	6072161	01/13/2011	CRONDELL, EMMA	05/28/1977	HIV/A
New	Confirmed	6122587	03/03/2011	CRONDELL, GARY	03/04/1968	HIV/A
New	Confirmed	6125275	03/03/2011	CRONDELL, ERIN		Crypt
New	Confirmed	6127771	03/03/2011	CRONDELL, ERIN	05/06/1955	HIV/A
New	Confirmed	6152329	03/24/2011	BOHM, SUSAN	05/25/1975	Salme
New	Confirmed	7235838	09/05/2012	MERICA, JANE	07/29/1984	Gono
New	Confirmed	7240114	09/06/2012	ERIC, PARNELLE		Chlar

Unassigned Cases Listing

Case Investigation Messages Reports

Cases

Unassigned Cases

New Case

New Aggregate Cases

Searches

New Search

New Aggregate Search

Disease Specific Search

Search Field Records

Case Definitions

Blank Forms

User Profile

User Directory

Case Work Queue

Disease	Patient Name	Referral Date	Jurisdiction
Amebiasis	Tom Jones	08/04/2005	

HCP-entered cases awaiting de-duplication in the pending work queue are visible to the HCP in the unassigned cases view.

Electronic Lab Reports (ELR)

- Many commercial and public health laboratories around the state enter disease reports electronically into MDSS
- Reporting is generally automatic and happens once the lab enters the results into their computer system
- This is the fastest form of reporting as it is entered into the MDSS as soon as the lab result is complete

ELR and the HCP

- If a lab enters a case before an HCP, the case will need de-duplication

THUS:

- HCPs can see cases that have already been entered by ELR using the “Unassigned Cases” queue
- Once the case is deduplicated, the HCP will have access to it

More About ELR

- Laboratories using ELR are likely to report cases into the MDSS prior to an HCP
- If a case is to be merged during the case de-duplication process, only one Case Detail Form can be selected. The other will be discarded
- **Recommendation:** HCPs who work in facilities that regularly use ELR labs should enter only minimal information upon initial case entry. If the case is immediately available in the “All Open Cases” search, then enter the remaining data. If the case is found in the “Unassigned Cases” queue, wait until de-duplication is complete

Case Definitions

Cases
New Case
New Aggregate Cases
Searches
New Search
New Aggregate Search
Disease Specific Search
Search Field Records
Case Definitions
Alert Rules
Blank Forms
User Profile

- MDSS provides a link to the available CDC Case Definitions
- LHDs should use definitions to determine how to report a case (i.e., confirmed, probable, suspect)
- Helpful for HCPs to know what laboratory and clinical criteria are required to confirm a case

Aggregate Case Entry

Aggregate Case Reports

- Aggregate case entry provides a method to enter aggregate case information for conditions such as influenza-like illness (ILI), gastrointestinal-like illness, scabies, etc
- Aggregate count entry is similar to individual case entry
- Counts can be entered on a daily or weekly basis. Counts can be added up to 90 days prior to the current date by changing the referral date to a date from the correct MMWR week
- Aggregate counts can be searched and exported in a manner similar to individual case reports
- The aggregate report may be relied on heavily in the event of a pandemic or other large scale epidemic when individual case reporting becomes impossible or unnecessary

Aggregate Case Entry – Screen One

Case Investigation Administration System Administration Messages Reports Logout

Cases

New Case

New Aggregate Cases

Searches

New Search

New Aggregate Search

Disease Specific Search

Search Field Records

Case Definitions

Aggregate Investigation Information

Reportable Condition* : - SELECT - Case Status* : Confirmed

Total Number Ill (Cases)* : Deaths: 0 Reporting Period* : - SELECT -

Referral Date (mm/dd/yyyy) :

New Information

Hospitalized(New): 0 Isolated(New): 0 Quarantined(New): 0

Totals

Hospitalized(Total): 0 Isolated(Total): 0 Quarantined(Total): 0

Investigation Information

Outbreak Y/N : No Outbreak Name :

*Indicates required items

Continue Cancel Help

- In left panel, click on “New Aggregate Cases”
- **Red*** are required fields:
 - Reportable Condition
 - Total Number ill (Cases)
 - Reporting Period (Weekly/Daily)
 - Case Status (leave “Confirmed”)

Aggregate Case Entry

Screen One Details

- The Reportable Condition shows this condition being entered in aggregate. Additional conditions can be added on an as needed basis
- It is important to enter at least one aggregate report each week for 'flu-like disease' reporting. **The case count can be 0 and can be edited at a later point in time**
- 'Daily' or 'Weekly' refers to the time period in which the case counts have occurred

Aggregate Case Entry

Screen One Details – Cont.

- A single reporting site can have multiple entries of information on either a daily or weekly basis
- During a typical flu season, aggregate reports of 'Flu Like Disease' should be assigned a 'weekly' reporting period
- Multiple aggregate reports from the same weekly reporting period will be aggregated together in the reports
- 'Daily' reporting of 'Flu Like Disease' should generally only be used during a pandemic

Aggregate Case Entry – Screen Two

Case Investigation Administration System Administration Messages Reports Logout

Cases

New Case

New Aggregate Cases

Searches

New Search

New Aggregate Search

Disease Specific Search

Search Field Records

Case Definitions

Alert Rules

Blank Forms

Person Providing Referral

First : Last :

Phone (###-###-####): Ext: Email :

Source Information

County* : Reporting Source* : Source Description :

School District : School Name : School Closed

Phone (###-###-####): Ext: Email :

Street :

City : State : Zip :

Case Notes

Continue Back Cancel Help

- Required Fields:
 - County
 - Reporting Source (school, LTC, hospital)
- Once all information is filled in, select Continue

Aggregate Case Entry

Screen Two Details

- **Person Providing Referral:** Contact information for person entering the report into the MDSS. *Note: Information will auto-populate if User Profile is utilized*
- **Case Notes:** Same notes field that is on all case reports - stamped with time, date, and User ID
- **Reporting Source (Required):** Drop down field listing local public health, physician, hospital, etc.
- **Reporting Source Description:** Free text field to enter name of reporting source (i.e., LHD or Hospital name)
- **Address Information (Only County is Required):** Complete address information for the reporting source. *Note: Information will auto-populate if User Profile is utilized*

Aggregate Case Entry – Screen Three

- The third screen of the aggregate case report form can be used to capture information from outbreaks
- This screen does not need to be completed for routine weekly reporting
- Click 'Save & Finish' when complete

Type of Outbreak: Gastrointestinal Respiratory Rash Other

Facility/Event Information

Facility/Event Name:

Street: City:

County: State: Zip:

Contact First Name: Contact Last Name: Phone:

Affected Unit(s)/Floor(s):

Type of Facility
 Healthcare Adult Day Care Child Day Care/K-12 School Event (e.g., wedding party, funeral)
 Restaurant Senior Apartments/Retirement Center College/University Other

Epidemiology

Onset Date of First Case (mm/dd/yyyy): Date of Last Onset (mm/dd/yyyy): Date of Exposure (mm/dd/yyyy):

Duration of Symptoms: Duration Units Hours Days Incubation Period: Incubation Units Hours Days

Suspected Etiology:

Total Number Ill (Cases): III Adults: III Children:

III Residents /Patients/ Patrons: Total Population:

III Employees: Total # Employed:

III Food Handlers: Secondary Cases:

Hospitalized Cases: Deaths:

Symptom Presentation

Symptom(s)	Symptom present	Number of Cases with Symptom	Total # of Ca
Vomiting	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Diarrhea	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Nausea	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Abd Cramps	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Fever <input type="text"/> (highest recorded)	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Bloody Stools	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Respiratory(e.g., coughing, wheezing)	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Pneumonia	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Rash	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Itching	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Skin and soft tissue wound/damage	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>
Other: <input type="text"/> (specify)	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="text"/>

Specimen Testing

Declined Stool - Norovirus Stool - Bacterial Stool - Ovum and Parasites
 Respiratory Swab/Secretion Wound /Skin Cultures:
 Food Other

Number of Specimens Collected: Laboratory Performing Tests: Shipping Date: Results:

Consultation Provided

Environmental cleaning guidelines Infection control precautions Employee restrictions
 Patient cohorting, isolation and restrictions Visitor restrictions Closed units to transfer and admits
 Specimen collection and submission Other

Additional Actions and Notifications

LHD MDHHS Bureau of Laboratories MDARD MDLARA Bureau of Health Systems
 Federal Agencies (e.g., CDC, FDA, USDA) MDHHS Public Information Officer Other

Person Providing Report to Public Health

First: Last: Phone:
E-mail: Alt Phone:

Save & Finish Back Cancel Help

Aggregate Case Entry

Screen Three Details – for Outbreak Reporting

- **Facility Name:** Include the facility name and the type of congregate setting (day care, event, college, etc.)
- **Epidemiology Section:** Complete the onset date of the first case, the number of ill and the total number of residents/employees
- **Symptom Presentation:** It is important to include a count of cases reporting each type of symptom
- **Specimen Testing:** indicate whether any testing was done or if specimens are being collected
- **Consultation Provided:** Check all options that were completed for this outbreak

Finding Aggregate Case Reports

- In order to find an aggregate case report, you will need to run an aggregate search by selecting “New Aggregate Search” from the left hand column of the Case Investigation functions
- If you would like to change or edit the information submitted or have additional numbers to report, you can contact your local health department or regional epidemiologist to re-open the report and change the information

Time Saving Step - The User Profile

- The User Profile allows users to set default setting to case entry fields that are repeated with each new case, such as referrer, physician, and lab
- When complete, the fields will automatically populate during case entry
- These fields are modifiable, in case changes are needed

Cases

User Profile

Default Referrer Information
This information will automatically populate fields when referrals are added to the system. Complete these fields only if you routinely use the same referral values.

First : Last :
Phone (###-###-####): Ext:
Email :

Default Primary Physician Information
This information will automatically populate fields when primary physician is added to the system. Complete these fields only if you routinely use the same physician.

First : Last :
Affiliation :
Phone (###-###-####): Ext:
Email :
Street :
City : County : State : Zip :

Default Laboratory Information
This information will automatically populate fields when new lab-reports are added to the system. Complete these fields only if you routinely use the same lab-report.

Select Lab Facility : Filter Lab List By: Filter Clear Filter
Lab Name :
Street :
City : County : State : Zip :
Phone :

Default HAN Alerting Information
This information will automatically populate fields when new Alerts are added to the system. Complete these fields only if you routinely use the same HAN values.

HAN userid : HAN password :

The User Profile

Auto-populated Information

Person Providing Referral

First : Last :

Phone (###-###-####): Ext:

Email :

Primary Physician

First : Last :

Affiliation :

Phone (###-###-####): Ext:

Email :

Street :

City : County : State : Zip :

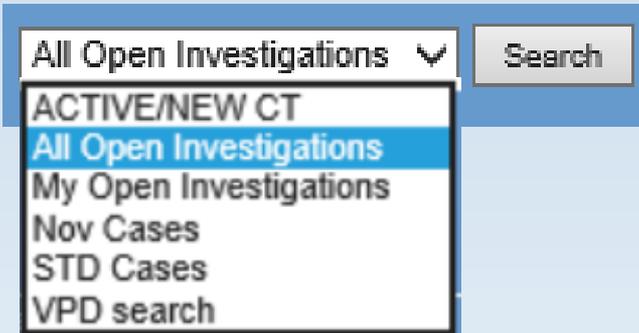
Case Notes

Save & Finish | Enter Lab Data | Back | Cancel | Help

- Example of Screen 3 of New Case Entry
- All saved profile information is auto-populated

How to Work With Your Case

Case Listings - Search Option



- The cases that initially display are based on your default search criteria and your jurisdiction, role and permissions
- ‘All Open Investigations’ and ‘My Open Investigations’ are saved searches in MDSS
- Users can create and save new searches (see Searches Section)
- Changing the Case Listings search option, changes the cases displayed for the duration of the session or until another search option is selected

Accessing the Case Details

1. Locate the specific case you want to access
2. Click the **EDIT** button. The "Case Detail" screen appears

Displaying results 1-10 of 3284 found

[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [\[Next >>\]](#) [\[Last >\]](#)

Investigation Status	Case Status	Investigation ID	Referral Date	Patient Name	Date of Birth	Disease	Investigator	County		
Completed - Follow Up	Confirmed	7215	08/13/2004	EASTER, MIKE	07/26/1954	Dengue Fever	CARLSON, BRAD	Oakland	Edit	View
Active	Not a Case	21996	08/16/2004	SQUIRREL, ROCKY	05/18/1986	Meningitis - Aseptic	CARLSON, BRAD	Washtenaw	Edit	View
New	Confirmed	6789748	08/16/2004	FIELDS, SALLY	01/01/1999	Meningitis - Bacterial Other	COLLINS, JIM	Muskegon	Edit	View
New	Confirmed	10588946	08/16/2004	STEIN, FRANK N	08/27/1979	Hemorrhagic Fever	LUTZKE, MARY	Kent	Edit	View
Active	Probable	39913	08/17/2004	BENNN, GEORGE W		Meningitis - Bacterial Other	DOGAN, DELILAH D.	Wayne	Edit	View
Active	Confirmed	8931102	08/18/2004	BOOP, BETTY	12/10/1955	Shigellosis	COLLINS, JIM	Washtenaw	Edit	View
New	Confirmed	52936	08/25/2004	BOLONEY, JOE		Botulism - Foodborne	COLLINS, JIM	Livingston	Edit	View
New	Confirmed	54245	08/31/2004	OUT, TIME	04/03/1968	Cryptococcosis	CARLSON, BRAD	Oakland	Edit	View
Completed - Follow Up	Confirmed	59083	09/02/2004	DOE, JANE M	05/03/1980	Influenza, Novel	COLLINS, JIM	Jackson	Edit	View
Completed - Follow Up	Confirmed	63920	09/02/2004	KENT, CLARK S	05/01/1943	Hepatitis A	COLLINS, JIM	Jackson	Edit	View

[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [\[Next >>\]](#) [\[Last >\]](#)

Case Locking

- All screens within “Case Details” will indicate that the case is locked and by which user
- Only the user locking the case can make edits

The screenshot displays a web-based case details form. At the top, a navigation bar includes tabs for Case Reporting, Address History, Demographics, Referrer, Lab Reports, Notes, Map, Audit, and Person H. Below the navigation bar, a blue header bar contains the text "Patient SQUIRREL, ROCKY Locked by MDSSTEST0004 (TEST MDSSTES)", which is circled in red. The form is divided into several sections:

- Reportable Condition*:** Meningitis - Aseptic (with a "Detail" button). Case Status* is set to "Not a Case" and Investigation Status is "Active".
- Patient Information:** Patient Status* is "Alive", Patient Status Date* is "08/16/2004", and Case Disposition* is "OutPa". First* is "ROCKY" and Last* is "SQUIRREL". Onset Date (mm/dd/yyyy) is "04/03/2004", MMWR is "13-2004", and Patient Id is "4918449".
- Investigation Address:** Street is "312 N MAIN ST", City is "ANN ARBOR", County is "Washtenaw", State is "Michigan", and Zip is blank. Geocode Source is "MDSS Zip Code". Jurisdiction is "Washtenaw County" and "State Prison Case" is unchecked.
- Investigation Information:** Outbreak Y/N is "Unknown", Outbreak Name is blank, Referral Date (mm/dd/yyyy) is "08/16/2004", and Case Entry Date (mm/dd/yyyy) is "08/16/2004".

Viewing a Locked Case

- While a case is locked, other users will be able to view the case information but will not be able to edit any of the field values
- All of the fields appear “grayed out.” This indicates that all of the fields are disabled to the user until the case is unlocked
- This lock remains in effect until the user navigates away from the record

Patient COPPALLA, FRANCIS Locked by LAIJOY (JOYCE LAI)

Reportable Condition*:	Case Status*:	Investigation Status*:
Streptococcal Dis, Inv, Grp <input type="button" value="Detail"/>	Confirmed	New

Patient Information

Patient Status*:	Patient Status Date* (mm/dd/yyyy):	
OutPatient	08/13/2004	
First*:	Last*:	Middle:
FRANCIS	COPPALLA	FORD
Onset Date (mm/dd/yyyy):	MMWR:	Patient Id:
06/11/2004	32-2004	9132

Investigation Address

Street:	Geocode Source:		
300 E MICHIGAN AVE	CGI		
City:	County:	State:	Zip:
LANSING	Ingham	Michigan	48933
Jurisdiction: Ingham County			

Investigation Information

Outbreak Y/N:	Outbreak Name:	
U		
Referral Date (mm/dd/yyyy):	Case Entry Date:	
08/13/2004	08/13/2004	
Investigation ID:	NETSS ID:	Assigned to:
9134	12	CARLSON, BRAD / Statewide

The “Case Reporting” Tab

Case Reporting | Address History | Demographics | Referrer | Lab Reports | Notes | Map | Audit | Person History

Patient SQUIRREL, ROCKY Locked by MDSSTEST0004 (TEST MDSSTES)

Reportable Condition*: Meningitis - Aseptic Case Status*: Not a Case Investigation Status*: Active

Patient Information

Patient Status*: Alive Patient Status Date* (mm/dd/yyyy): 08/16/2004 Case Disposition*: OutPatient

First*: ROCKY Last*: SQUIRREL Middle:

Onset Date (mm/dd/yyyy): 04/03/2004 MMWR: 13-2004 Patient Id: 4918449

Diagnosis Date (mm/dd/yyyy):

Investigation Address

Street: 312 N MAIN ST Geocode Source: MDSS Zip Code

City: ANN ARBOR County: Washtenaw State: Michigan Zip: 48103

Jurisdiction: Washtenaw County State Prison Case

Investigation Information

Outbreak Y/N: Unknown Outbreak Name:

Referral Date (mm/dd/yyyy): 08/16/2004 Case Entry Date (mm/dd/yyyy): 08/16/2004

Investigation ID: 21996 NETSS ID: 29 Assigned to: CARLSON, BRAD / Statewide

*indicates required items

- The Case Reporting tab contains basic information about the case
- The Case Detail form is available on this tab

Case Reporting

Key Field Definitions

- **Investigation Status:** refers to the stage of the investigation (Active, Canceled, Completed, Completed – Follow Up, New, Review, Superseded)
 - Case Status should be set according to case definition (confirmed, probable, suspect, not a case) and then marked as “Completed” for Investigation Status
 - If duplicate cases are entered, all but one should be marked “Superseded” for Investigation Status with one case investigated to resolution. The dedup button can also be used to merge duplicate cases
 - Select “Canceled” if the case cannot be investigated to resolution (e.g., cannot contact patient or provider)

Case Detail Forms

- Each disease has an associated case investigation form called a Case Detail Form.
- Forms are accessed through the Case Reporting tab
- Most diseases have unique forms, but some use a “basic” form
- All of the fields required to reported to MDHHS and/or CDC are contained on the Case Detail Form
- All data from the basic case entry is auto-populated somewhere on the Case Detail Form

Case Detail Forms

- Provide a common format for handwritten and computer data entry
- Use a web interface for basic intake information
- Allow for supplemental data for reportable conditions requiring detailed information
- Eliminate the need for mailing case investigation forms

Case Detail Forms

To access the form, click the “detail” button on the case reporting tab

The screenshot shows a web-based case reporting interface. At the top, there are navigation tabs: Case Reporting, Address History, Demographics, Referrer, Lab Reports, Notes, Map, Audit, and Person History. The current case is titled "Patient TURKEY, TOM Locked by REIMINKB (BETHANY G REIMINK)".

The main form area is divided into several sections:

- Reportable Condition*:** A dropdown menu showing "Salmonellosis" with a "Detail" button circled in red.
- Case Status*:** A dropdown menu showing "Confirmed".
- Investigation Status*:** A dropdown menu showing "New".
- Patient Information:**
 - Patient Status*:** A dropdown menu showing "Alive".
 - Patient Status Date* (mm/dd/yyyy):** A date field showing "11/26/2019".
 - Case Disposition*:** A dropdown menu showing "InPatient".
 - First*:** A text field showing "TOM".
 - Last*:** A text field showing "TURKEY".
 - Middle:** An empty text field.
 - Onset Date (mm/dd/yyyy):** An empty date field.
 - MMWR:** A text field showing "48-2019".
 - Patient Id:** A text field showing "11404219".
 - Diagnosis Date (mm/dd/yyyy):** An empty date field.
 - Dedup:** A button.
- Investigation Address:**
 - Street:** A text field showing "333 S GRAND AVE".
 - Geocode Source:** An empty text field.
 - City:** An empty text field.
 - County:** A text field showing "Ingham".
 - State:** A text field showing "Michigan".
 - Zip:** An empty text field.
 - Jurisdiction:** A text field showing "Ingham County".
 - State Prison Case:** A checkbox that is unchecked.
- Investigation Information:**
 - Outbreak Y/N:** A dropdown menu showing "Unknown".
 - Outbreak Name:** An empty text field.
 - Referral Date (mm/dd/yyyy):** A date field showing "11/26/2019".
 - Case Entry Date (mm/dd/yyyy):** A date field showing "11/26/2019".
 - Investigation ID:** A text field showing "11404221".
 - NETSS ID:** A text field showing "82150".
 - Assigned to:** A text field showing "HENDERSON, TIFFANY A / Statewide".
 - Re-assign:** A button.

At the bottom of the form, there are buttons for "Reset", "Submit Changes", "Cancel", and "Help". A red asterisk indicates required items.

Case Detail Forms

Save Exit Print

Gastrointestinal Illness Case Investigation

Salmonellosis

Michigan Department of Health and Human Services

Communicable Disease Division

Investigation ID: 13928107657	Investigation Status: New	Case Status: Confirmed	Case Disposition: OutPatient
Patient ID: 13928107655	First: TOM	Last: TURKEY	Patient Status: Alive

Expand all

Click to see all sections or click each heading to open one at a time

- + Investigation Information
- + Patient Information
- + Demographics
- + Referral Information
- + Referral Information Continued
- + Hospital Information
- + Clinical Information
- + Laboratory Information
- + Epidemiologic Information
- + Contact Information
- + Food Purchased Information

Save Exit Print

Gastrointestinal Illness Case Investigation

Salmonellosis

Michigan Department of Health and Human Services

Communicable Disease Division

Investigation ID: 13928107657	Investigation Status: New	Case Status: Confirmed	Case Disposition: OutPatient
Patient ID: 13928107655	First: TOM	Last: TURKEY	Patient Status: Alive

Expand all

Collapse all

Investigation Information

Investigation ID 13928107657	Onset Date (mm/dd/yyyy)	Diagnosis Date (mm/dd/yyyy)	Referral Date (mm/dd/yyyy) 12/12/2019	Case Entry Date (mm/dd/yyyy) 12/12/2019	Case Completion Date (mm/dd/yyyy)
Investigation Status New	Case Status <input checked="" type="radio"/> Confirmed <input type="radio"/> Not a Case <input type="radio"/> Probable <input type="radio"/> Suspect <input type="radio"/> Unknown <input type="radio"/> Non-Michigan Case				<input type="checkbox"/> State Prison Case
Patient Status Alive	Patient Status Date (mm/dd/yyyy) 12/12/2019	Case Disposition OUTPATIENT	Part of an outbreak? UNKNOWN	Outbreak Name	Case Updated Date (mm/dd/yyyy) 12/12/2019

Patient Information

Patient ID 13928107655	First TOM	Last TURKEY	Middle
Street Address 333 E ALCOTT ST			
City KALAMAZOO	County Kalamazoo	State Michigan	Zip 49001
Home Phone ###-###-####	Ext.	Other Phone ###-###-####	Ext.
Parent/Guardian (required if under 18)			
First	Last	Middle	69

Working with Case Detail Forms

1. Clicking the 'Details' button opens the HTML disease specific form, retrieving the data from the database
2. Add or edit data to the form as needed or required
3. Click **SAVE** at top of screen to save changes

Note: Save changes frequently – this is key as your session may time out before you return to the MDSS

4. Click **EXIT** to exit without saving

Note: If you make changes to the form, a pop-up window will appear asking if you are sure you don't want to save changes

5. Click **PRINT** at the top of the screen to print the form at any point of data entry

Details are provided in the section *Disease Specific Forms* in *Chapter 5* of the User Guide or by viewing Online Help

Case Detail Form: Basic Information

Each form contains basic information applicable to all diseases . . .

Save Exit Print					
Gastrointestinal Illness Case Investigation Salmonellosis Michigan Department of Health and Human Services Communicable Disease Division					
Investigation ID: 13928107657	Investigation Status: New	Case Status: Confirmed	Case Disposition: OutPatient		
Patient ID: 13928107655	First: TOM	Last: TURKEY	Patient Status: Alive		
Expand all		Collapse all			
Investigation Information					
Investigation ID 13928107657	Onset Date (mm/dd/yyyy)	Diagnosis Date (mm/dd/yyyy)	Referral Date (mm/dd/yyyy) 12/12/2019	Case Entry Date (mm/dd/yyyy) 12/12/2019	Case Completion Date (mm/dd/yyyy)
Investigation Status New	Case Status <input checked="" type="radio"/> Confirmed <input type="radio"/> Not a Case <input type="radio"/> Probable <input type="radio"/> Suspect <input type="radio"/> Unknown <input type="radio"/> Non-Michigan Case				<input type="checkbox"/> State Prison Case
Patient Status Alive	Patient Status Date (mm/dd/yyyy) 12/12/2019	Case Disposition OUTPATIENT	Part of an outbreak? UNKNOWN	Outbreak Name	Case Updated Date (mm/dd/yyyy) 12/12/2019
Patient Information					
Patient ID 13928107655	First TOM	Last TURKEY	Middle		
Street Address 333 E ALCOTT ST					
City KALAMAZOO	County Kalamazoo	State Michigan	Zip 49001		
Home Phone ###-###-#### Ext.		Other Phone ###-###-#### Ext.			
Parent/Guardian (required if under 18)					
First		Last		Middle	

Case Detail Form: Supplemental Information

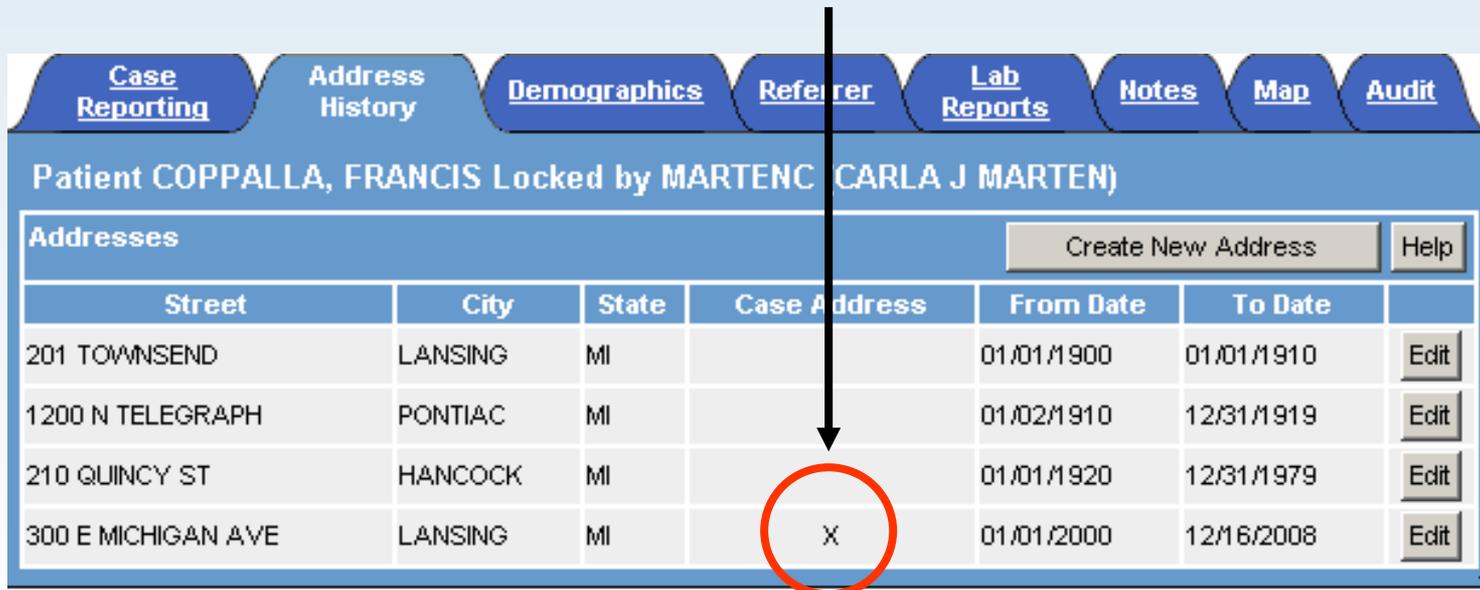
...as well as specific information only pertaining to the specific disease

For example:
 Clinical data
 Laboratory data
 Epidemiological data

Hospital Information				
Patient Hospitalized <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	Hospital	Hospital City	Hospital Record No.	
Admission Date mm/dd/yyyy	Discharge Date mm/dd/yyyy	Days Hospitalized	Patient Died <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	Date Of Death mm/dd/yyyy
Clinical Information				
Date Recovered: mm/dd/yyyy				
Symptoms (Check all that apply)				
<input type="checkbox"/> No Symptoms	<input type="checkbox"/> Abdominal Pain	<input type="checkbox"/> Body Ache	<input type="checkbox"/> Chills	<input type="checkbox"/> Diarrhea
<input type="checkbox"/> Fatigue	<input type="checkbox"/> Headache	<input type="checkbox"/> Nausea	<input type="checkbox"/> Vomiting	<input type="checkbox"/> Diarrhea w/blood
Fever? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	If yes, specify highest fever:		Scale <input type="radio"/> F <input type="radio"/> C	
Other Symptoms? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	If yes, please specify:			
Laboratory Information				
Please insert the first positive lab report date for this illness (for metrics analyses) (mm/dd/yyyy)				
Specimen Collected	Collection Date (mm/dd/yyyy)	Test Result	Test Name	Laboratory Name
Blood				
Stool				
Urine				
Other				
Salmonella serotype:				
<input type="radio"/> Typhimurium	<input type="radio"/> Enteritidis	<input type="radio"/> Newport	<input type="radio"/> Heidelberg	
<input type="radio"/> Javiana	<input type="radio"/> Montevideo	<input type="radio"/> Muenchen	<input type="radio"/> Oranienburg	
<input type="radio"/> Saintpaul	<input type="radio"/> Infantis	<input type="radio"/> Thompson	<input type="radio"/> Paratyphi B var.L (+)tartrate+ (Formerly Java)	
<input type="radio"/> Braenderup	<input type="radio"/> Agona	<input type="radio"/> Hadar	<input type="radio"/> Mississippi	
<input type="radio"/> Berta	<input type="radio"/> 14,[5],12:i:-	<input type="radio"/> Poona	<input type="radio"/> Other, specify:	

The Address History screen

- Addresses are associated with a patient, not a case, thus a *patient* can have multiple address, but a *case* is only associated with one
- Date ranges, onset if available, referral if not, are used to define which address a certain *case* is affiliated with
- When viewing the Address History on a *case*, the *patient's* entire address history is shown, but only the official *case* address has an “X” by it

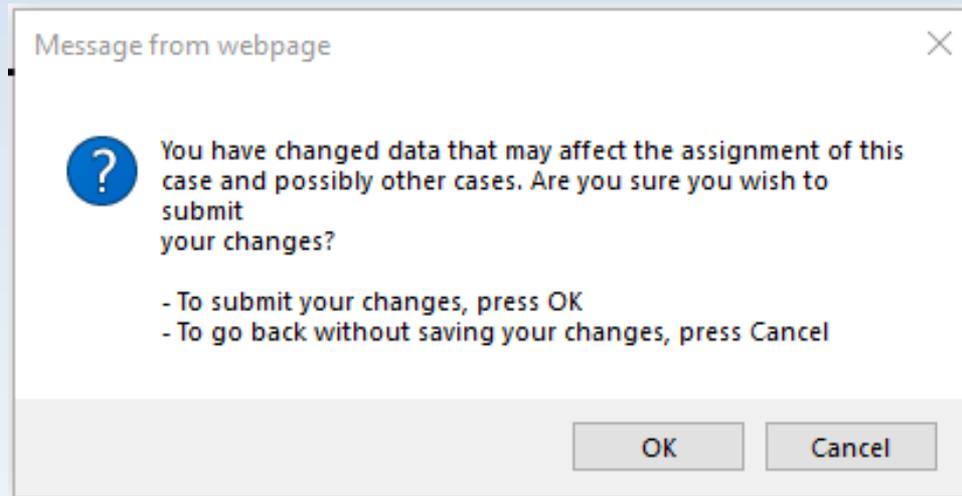


Patient COPPALLA, FRANCIS Locked by MARTENC (CARLA J MARTEN)

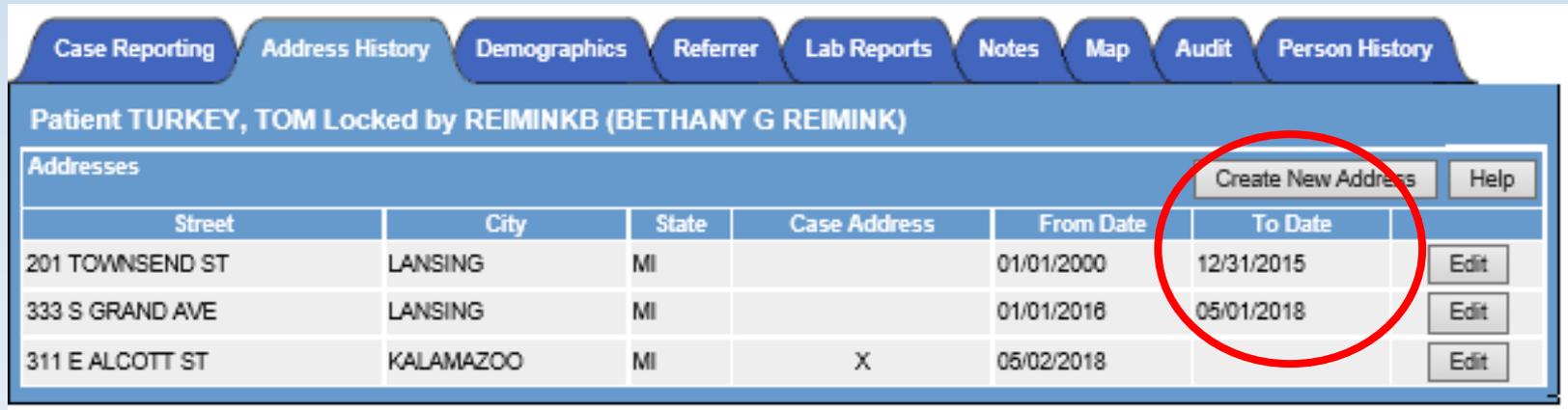
Street	City	State	Case Address	From Date	To Date	
201 TOWNSEND	LANSING	MI		01/01/1900	01/01/1910	Edit
1200 N TELEGRAPH	PONTIAC	MI		01/02/1910	12/31/1919	Edit
210 QUINCY ST	HANCOCK	MI		01/01/1920	12/31/1979	Edit
300 E MICHIGAN AVE	LANSING	MI	X	01/01/2000	12/16/2008	Edit

Change of Jurisdiction Warning

The *Change in Jurisdiction Warning* occurs if you change date variables or address information that would impact the case address and therefore LHD jurisdiction



Adding a New Address



The screenshot shows a patient record for TOM TURKEY, locked by REIMINKB (BETHANY G REIMINK). The 'Addresses' section contains a table with columns: Street, City, State, Case Address, From Date, To Date, and an Edit button. A red circle highlights the 'Create New Address' button in the top right corner of the table area.

Street	City	State	Case Address	From Date	To Date	
201 TOWNSEND ST	LANSING	MI		01/01/2000	12/31/2015	Edit
333 S GRAND AVE	LANSING	MI		01/01/2016	05/01/2018	Edit
311 E ALCOTT ST	KALAMAZOO	MI	X	05/02/2018		Edit

Before you add a new address, each existing address must have a “To Date”

1. Use the **EDIT** button to modify an existing address
2. Click the **CREATE NEW ADDRESS** button

Adding a New Address

3. The “Create New Address” window appears
4. Enter the new address
5. Click the **CREATE ADDRESS** button to save changes

The screenshot shows a software interface for adding a new address for a patient. The patient's name is "Patient TURKEY, TOM Locked by REIMINKB (BETHANY G REIMINK)". The interface has a navigation bar with tabs: Case Reporting, Address History, Demographics, Referrer, Lab Reports, Notes, Map, Audit, and Person History. The "Address Information" section contains the following fields:

- Street:
- City:
- County:
- State:
- Zip:

The "Address Timeframe" section contains the following fields:

- Valid Dates for the Address (mm/dd/yyyy):
- from  to 

At the bottom of the form are three buttons: "Create Address", "Cancel", and "Help".

If multiple addresses exist for the patient, use the “From” and “To” date fields to indicate dates when the addresses were valid

Demographics and Referrer Screens

Case Reporting Address History **Demographics** Referrer Lab Reports Notes Map Audit Person History

Patient TURKEY, TOM Locked by REIMINKB (BETHANY G REIMINK)

Race*:
American Indian or Alaska Native
Asian
Black/African American
Caucasian
Hawaiian or Pacific Islander
Other
Unknown

Sex*: Male

Hispanic Ethnicity*: Hispanic or Latino

Arab Ethnicity: Non-Arab

Home Phone (### ### ####):
Ext:

Other Phone (### ### ####):
Ext:

Date of Birth / Age

Date of Birth (mm/dd/yyyy): 11/11/2000 Age at Onset (if DOB unknown): 19 Age Unit: Years

Parent/Guardian (required if under 18)

First: Last: Middle:

Work / Occupation or School / Grade

Worksites / School:

Occupations / Grade:

Patient Identifiers

MDOC ID:

*Indicates required items

Reset Submit Changes

Case Reporting Address History Demographics **Referrer** Lab Reports Notes Map Audit Person History

Patient TURKEY, TOM Locked by REIMINKB (BETHANY G REIMINK)

Referral received via Electronic Laboratory Reporting

Person Providing Referral

First: MEGHAN Last: WEINBERG

Phone (### ### ####): 517-749-2153 Ext: Email: WEINBERGM1@MICHIGAN.GOV

Primary Physician

First: Last:

Affiliation: MSU Olin Health Center

Phone (### ### ####): Ext: Email:

Street: Geocode Source:

City: County: State: Zip:

Reset Submit Changes Cancel Help

Lab Reports

- Electronic Laboratory Reports (ELR) and/or manually entered Laboratory Reports can be viewed in the Lab Report tab
- Lab results are also available at the bottom of the Case Detail Form
- Laboratory results can be entered into MDSS three ways:
 - 1) Manually upon case entry, in the 3rd screen
 - 2) Manually using the “Lab Reports” tab after it is already in the system
 - 3) Electronically via *Electronic Laboratory Reports*
- MDHHS Bureau of Laboratories and many commercial and public health laboratories are using electronic reporting

Lab Reports Screen

Patient TURKEY, TOM Locked by REIMINKB (BETHANY G REIMINK)

Lab Reports Create New Lab Report Help

Date Received	Collection Date	Test Name (* Case Associated)	Result	Electronic		
11/28/2019	11/24/2019	Salmonella sp identified [Type] in Isolate	Positive	No	Edit	Delete

- Click **CREATE NEW LAB REPORT** button to add a lab report
- Click **EDIT** to view or edit an existing lab report
- Laboratory reports are associated to the patient, not the case
 - Multiple cases can be associated with a single patient
 - Any changes or additions of laboratory reports will be associated with that patient

Lab Report - ELR Example

Case Reporting	Address History	Demographics	Referrer	Lab Reports	Notes	Map	Audit	Person History
Patient BUNNY, BUGS Locked by HENDERSONT1 (TIFFANY A HENDERSON)								
Lab Order Information								
Test Name*: SALMONELLA TYPING - HUMAN								
Lab Report Date (mm/dd/yyyy): 09/18/2007								
Ordering Provider								
First: JOANNE Last: MORRIS								
Affiliation: WILLIAM BEAUMONT HOSPITAL-TROY Street: 44201 DEQUINDRE ROAD								
City: TROY County: Oakland State: Michigan Zip: 48098								
Phone number: Ext:								
Laboratory Information								
Name*: MDCH REGIONAL LAB LANSING								
Street: 3350 N. Martin Luther King, Jr. Blvd. Geocode Source:								
City: Lansing County: Ingham State: Michigan Zip: 48909								
Phone number: 517-335-8471								
Specimen Information								
Specimen Collection Date (mm/dd/yyyy): 09/08/2007								
Specimen Source:								
Specimen Site:								
Specimen Site Text: FECES								
Specimen ID: M07ST001012								
Results								
Reported Test Name : GENUS (BACT),SPECIES (BACT),SEROTYPE (BACT)								
Coded Result : Salmonella								
Alternate Coded Result : Salmonella,sp.,Newport								
Numeric Result :								
Reported Test Name : RESULT PRE-COMMENT (BACT)								
Coded Result : CULTURE IDENTIFICATION :								
Numeric Result :								
<input type="button" value="Reset"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>								

Notes Screen

- The Notes tab works like nursing notes – saved notes cannot be edited so a new note must be added to update information
- Each note is time and date stamped with the User' ID
- Documents can be attached to a case using the “Attach New Document” function

Patient CHEESEY, JOHN Locked by LAIJ (JOYCE LAI)

New Note :

Telephone Call attempt on August 8, 2016 - left voicemail message

Save Note Help

Previous Case Notes :

*** Added by LAIJ on 08/08/2016 at 01:18:05 PM ***

Complained of diarrhea and abd pain - went to ED but due to fluid loss and extended symptoms admitted

Case Documents

Date	Name	Description

Cancel Help

Attach New Document

Audit Screen

Patient CHEESEY, JOHN Locked by LAIJ (JOYCE LAI)

Date Changed	User Name	Jurisdiction	Role	Inv Status	Action Performed
08/08/2016 01:14:58 PM	MDSS TEST	Wayne County	LHJ	New	Add Case
08/08/2016 01:14:59 PM	MDSS TEST	Wayne County	LHJ	New	Lab Added With New Case
08/08/2016 01:16:46 PM	JOYCE LAI	Statewide	MDCH-BOE	New	Update Address
08/08/2016 01:18:05 PM	JOYCE LAI	Statewide	MDCH-BOE	New	Add Note
08/08/2016 01:22:16 PM	JOYCE LAI	Statewide	MDCH-BOE	New	Add Note

Help

- Changes to cases are tracked in the audit trail
- The audit trail includes the user ID, jurisdiction, the investigation status of the case (at time of audit), and the action performed

User Directory

Case Investigation
Cases
New Case
New Aggregate Cases
Searches
New Search
New Aggregate Search
Disease Specific Search
Search Field Records
Case Definitions
Alert Rules
Blank Forms
User Profile
User Directory

User Directory Help					
Userid	Name	Jurisdiction	Email	Phone	Active

- The MDSS User Directory provides each user's UserID, name, jurisdiction, email, and phone number
- It is available in the case investigation tab
- The directory can be used in conjunction with the audit trail to contact individuals who have edited a case

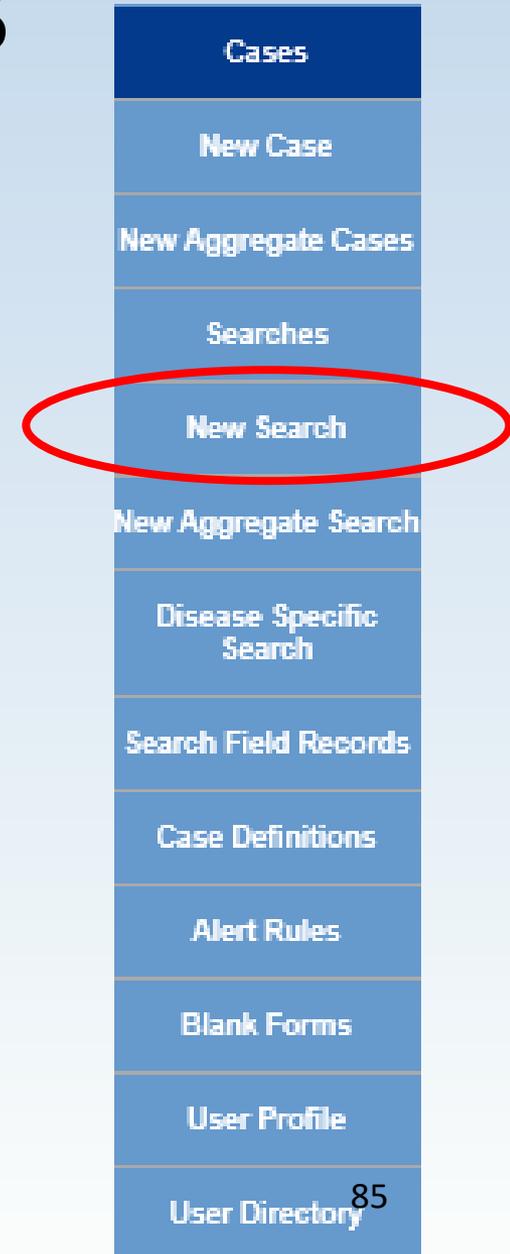
MDSS Searches

or

“Where did my case go?”

New Searches

- If you need to find a case or set of cases, you will need to create a new search
- The *New Search* function is under the 'Case Investigation' module
- There are two levels of search options:
 - Basic
 - Advanced



Cases
New Case
New Aggregate Cases
Searches
New Search
New Aggregate Search
Disease Specific Search
Search Field Records
Case Definitions
Alert Rules
Blank Forms
User Profile
User Directory

Basic Search

Clicking **New Search**, opens the "Basic Search" screen

Search by:

Patient Name

Investigator Name

Disease or Disease Group

Dates

Geographic or Political Region

The screenshot shows a web-based search interface with the following sections and fields:

- Name of Saved Search:** A text input field.
- Investigation ID:** A text input field.
- Case Status:** A dropdown menu with options: Confirmed, Confirmed-Non Resident.
- Investigation Status:** A dropdown menu with options: Active, Canceled.
- Patient First Name:** A text input field.
- Patient Last Name:** A text input field.
- Patient ID:** A text input field.
- Investigator First Name:** A text input field.
- Investigator Last Name:** A text input field.
- Investigator Userid:** A text input field.
- Reportable Condition:** A dropdown menu with options: Acute Flaccid Myelitis (AFM), Amebiasis, Anthrax, Babesiosis.
- Disease Group:** A dropdown menu with options: AIDS/HIV, Foodborne, Influenza, Meningitis.
- Outbreak:** A text input field.
- AND/OR:** Radio buttons for logical operators.
- Case Notes Search:** A text input field.
- Date Criteria:**
 - Onset Date (mm/dd/yyyy):** Two date pickers with a 'to' separator.
 - Referral Date (mm/dd/yyyy):** Two date pickers with a 'to' separator.
 - Entry Date (mm/dd/yyyy):** Two date pickers with a 'to' separator.
 - Birth Date (mm/dd/yyyy):** Two date pickers with a 'to' separator.
 - MMWR Week (ww-yyyy):** Two text input fields with a 'to' separator.
- Geographic Criteria:**
 - Primary Jurisdiction:** A checkbox.
 - Local Health Jurisdiction:** A dropdown menu with options: Allegan County, Barry-Eaton, Bay County, Benzie-Leelanau.
 - County:** A dropdown menu with options: Alcona, Alger, Allegan, Alpena.
 - Region:** A dropdown menu with options: 1, 2 North, 2 South, 3.
 - Facility:** A dropdown menu with options: ALLEGAN GENERAL HOSP, ALPENA GENERAL HOSP, BARAGA COUNTY MEM HOSP, BATTLE CREEK HLTH SYS.
- Buttons:** Search, Save & Finish, Advanced, Cancel, Help.

Advanced Search

Click on the
'Advanced' button at
the bottom of the
screen

Name of Saved Search Default Search

Investigation ID : Case Status : Investigation Status :
 Confirmed Confirmed-Non Resident Active Canceled

Patient First Name : Patient Last Name : Patient ID :

Investigator First Name : Investigator Last Name : Investigator Userid :

Reportable Condition : Disease Group : Outbreak :
Acute Flaccid Myelitis (AFM) AIDS/HIV Foodborne Influenza Meningitis
Amebiasis Anthrax Babesiosis

AND OR

Case Notes Search :

Date Criteria

Onset Date (mm/dd/yyyy): to Referral Date (mm/dd/yyyy): to
Entry Date (mm/dd/yyyy): to Birth Date (mm/dd/yyyy): to
MMWR Week (ww-yyyy): to

Geographic Criteria

Primary Jurisdiction

Local Health Jurisdiction : County : Region : Facility :
Allegan County Alcona 1 ALLEGAN GENERAL HOSP
Barry-Eaton Alger 2 North ALPENA GENERAL HOSP
Bay County Allegan 2 South BARAGA COUNTY MEM HOSP
Benzie-Leelanau Alpena BATTLE CREEK HLTH SYS

Search Save & Finish **Advanced** Cancel Help

Additional Options With Advanced Searches

Search by:

Demographics

Type of lab result

Physician or Reporting Lab

MDOC ID

Geography Coordinates

The screenshot shows an advanced search interface with the following sections and fields:

- Name of Saved Search:** A text input field.
- NETSS ID:** A text input field.
- Age:** Two text input fields for range, with an **Age Unit:** dropdown menu (set to Days/Months).
- Zip:** A text input field.
- Include Aggregates:** A checkbox.
- City:** A text input field.
- Sex:** A dropdown menu (Female/Male).
- Race:** A dropdown menu (American Indian or Alaska Native/Asian).
- Ethnic Group:** A dropdown menu (Hispanic or Latino/Not Hispanic or Latino).
- Arab Ethnic Group:** A dropdown menu (Arab/Non-Arab).
- Investigation Closure Date (mm/dd/yyyy):** Two date pickers with a range.
- Case Update Date (mm/dd/yyyy):** Two date pickers with a range.
- Outcome:** A dropdown menu (Died/Survived).
- Hospitalized:** A dropdown menu (Yes/No).
- Travel History:** A text input field.
- Specimen ID:** A text input field.
- Electronic Laboratory Results:** Three radio buttons: "Search Electronic Laboratory Reporting cases only", "Search Non Electronic Laboratory Reporting cases only", and "Search both ELR and non ELR cases".
- Referring Criteria:** Four text input fields: "Affiliation:", "Laboratory Name:", "Physician First Name:", and "Physician Last Name:".
- Michigan Department Of Corrections:** "MDOC ID:" text input field and three radio buttons: "Exclude MDOC cases", "Include MDOC cases", and "Only MDOC cases".
- Geographic Criteria:** "Geographic Extent:" with four text input fields for x and y coordinates (x: [] y: [] to x: [] y: []).

At the bottom, there are buttons for "Search", "Save & Finish", "Basic", "Cancel", and "Help".

Advanced Search

Key Field Definitions

- **Age and Age Unit:** “Age” provides a numeric range search, while “Age Unit” works in conjunction with the “Age” field to determine the correct measurement for the age provided.
 - *Note: the patient’s reported age is not converted to days/months/years during the comparison*
- **Zip:** Searches the “Investigation Address.” The “Zip” search allows single, multiple, and range selection
- **City:** Searches the “Investigation Address.” The “City” search allows single, multiple and wildcard (*) selection
- **Include Aggregate:** Determines whether the search will include only individual case reports or both individually reported cases and aggregate reports

Advanced Search

Key Field Definitions

- **Investigation Closure Date:** Searches the system generated value of “Investigation Closure Date.” This search automatically limits the results to “closed” cases
- **Outcome, Hospitalized:** Compares the values entered in the appropriate fields (“Patient Died” or “Patient Hospitalized”) on the Case Detail Form. Using these fields as search criteria will automatically limit the results to reportable conditions that request this information on the Case Detail Form
- **ELR:** Allows the user to select cases based on how lab results were added to the case. Default includes both ELR and non-ELR cases
- **Laboratory Name:** Compares against the values entered in the Lab Reports screen (basic case entry) *not* the information provided on the Case Detail Form

Geographic Map Search

- The Geographic Extent icon on the Advanced Search Screen allows the user to search for cases within a geographic boundary using the GIS Map to select the coordinates
- Click on the  icon to select an area on the map



Geographic Criteria

Geographic Extent :



x:

y:

to

x:

y:

Saving & Creating a Default Search

1. To save a search for future use, enter a name for the search
2. Select all criteria
3. Click on **Save & Finish**
4. Check the **Default Search** box prior to saving to make it your default search (what you see when you first open MDSS)

The screenshot shows the MDSS search interface with several key elements circled in red:

- Name of Saved Search:** A text input field containing "Open CT and GC".
- Default Search:** A checkbox labeled "Default Search" which is checked.
- Save & Finish:** A button at the bottom of the form, circled in red.

The form includes various search criteria sections:

- Investigation ID:** Text input field.
- Case Status:** Dropdown menu with options "Confirmed" and "Confirmed-Non Resident".
- Investigation Status:** Dropdown menu with options "Active" and "Canceled".
- Patient Information:** Fields for Patient First Name, Patient Last Name, and Patient ID.
- Investigator Information:** Fields for Investigator First Name, Investigator Last Name, and Investigator Userid.
- Reportable Condition:** Dropdown menu with options "Chlamydia (Genital)", "Cholera", "Cholera (Pre-2019)*", and "Coccidioidomycosis".
- Disease Group:** Dropdown menu with options "Other", "Rabies", "Refugee", and "STD".
- Outbreak:** Text input field.
- Case Notes Search:** Text input field.
- Date Criteria:** Fields for Onset Date, Referral Date, Entry Date, and Birth Date, each with a date picker.
- Geographic Criteria:** Fields for Local Health Jurisdiction, County (with "Allegan" selected), Region, and Facility.

Buttons at the bottom include "Search", "Save & Finish", "Advanced", "Cancel", and "Help".

Notes on Searching

- LHJ users will only be able to view cases assigned to their program area
- **Wild Card** searches allow the user to perform searches when the complete term is not known
 - Use asterisks “*” to signify unknown strings
 - For example: L* gives all entries that start with L
- **Date** searches:
 - Enter only “From Date” to find all cases after and including that date
 - Enter only “To Date” to find all cases before and including that date

Notes on Searching

- Each **new variable** added operates like an “and” ...the search becomes more restrictive (male and 2-6 years and Salmonella)
- Each selection **within a variable** operates like an “or” ... that is less restrictive (Barry or Eaton)
- Try to limit the size of searches - extracting large datasets can be time consuming and may tax the system
- If large searches are needed, split them up into multiple small searches and merge them later or perform them only during off peak hours such as first thing in the morning or last thing at night

Tricks of the Trade

Selecting Multiple Sequential Options

1. Move the mouse cursor to first desired option on the list and click left mouse button
2. Move the mouse cursor to the last desired option of the list and hold down the **SHIFT key** while clicking the left mouse button



Selecting Multiple Non-Consecutive Options

1. Move the mouse cursor to first desired option on the list and click left mouse button
2. Move the mouse cursor to the next desired option on the list and hold down the **CTRL key** while clicking the left mouse button. Repeat until all desired options are selected



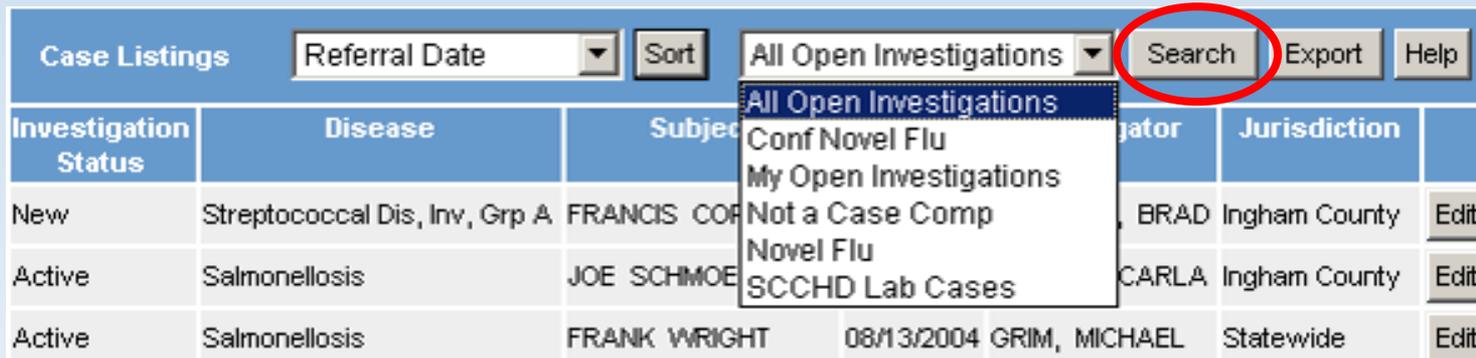
De-Selecting Options

1. Move the mouse cursor to option you want to de-select and hold down the **CTRL key** while clicking the left mouse button

Executing a Saved Search

There are two ways to execute a saved search:

1) From case listings



The screenshot shows a web interface for case listings. At the top, there is a header bar with the text "Case Listings" on the left. To its right is a dropdown menu set to "Referral Date", followed by a "Sort" button. Further right is another dropdown menu set to "All Open Investigations". A red circle highlights a "Search" button located to the right of this dropdown. To the right of the "Search" button are "Export" and "Help" buttons. Below the header is a table with columns: "Investigation Status", "Disease", "Subject", "Investigator", and "Jurisdiction". The table contains three rows of data. A dropdown menu is open over the "All Open Investigations" dropdown, showing a list of saved search names: "All Open Investigations", "Conf Novel Flu", "My Open Investigations", "Not a Case Comp", "Novel Flu", and "SCCHD Lab Cases".

Investigation Status	Disease	Subject	Investigator	Jurisdiction	
New	Streptococcal Dis, Inv, Grp A	FRANCIS COP	BRAD	Ingham County	Edit
Active	Salmonellosis	JOE SCHMOE	CARLA	Ingham County	Edit
Active	Salmonellosis	FRANK WRIGHT	08/13/2004 GRIM, MICHAEL	Statewide	Edit

2) From saved searches

Search Name	Date Created	Default			
All Open Investigations	01/04/2006	X	Search	Edit	
Conf Novel Flu	05/16/2007		Search	Edit	Delete
My Open Investigations	01/04/2006		Search	Edit	Delete
Not a Case Comp	05/16/2007		Search	Edit	Delete
Novel Flu	05/16/2007		Search	Edit	Delete
SCCHD Lab Cases	08/08/2007		Search	Edit	Delete

Executing a Temporary Search

- When creating a New Search, you can click the **Search** button to execute the search immediately
- The search criteria will NOT be saved

The screenshot shows a web-based search form with the following sections and fields:

- Name of Saved Search:** A text input field.
- Investigation ID:** A text input field.
- Case Status:** A dropdown menu with options "Confirmed" and "Confirmed-Non Resident".
- Investigation Status:** A dropdown menu with options "Active" and "Canceled".
- Patient First Name:** A text input field.
- Patient Last Name:** A text input field.
- Patient ID:** A text input field.
- Investigator First Name:** A text input field.
- Investigator Last Name:** A text input field.
- Investigator Userid:** A text input field.
- Reportable Condition:** A list box containing "Acute Flaccid Myelitis (AFM)", "Amebiasis", "Anthrax", and "Babesiosis".
- Disease Group:** A list box containing "AIDS/HIV", "Foodborne", "Influenza", and "Meningitis".
- AND/OR:** Radio buttons for "AND" and "OR".
- Case Notes Search:** A text input field.
- Date Criteria:**
 - Onset Date (mm/dd/yyyy):** Two date pickers with a "to" separator.
 - Referral Date (mm/dd/yyyy):** Two date pickers with a "to" separator.
 - Entry Date (mm/dd/yyyy):** Two date pickers with a "to" separator.
 - Birth Date (mm/dd/yyyy):** Two date pickers with a "to" separator.
 - MMWR Week (ww-yyyy):** Two text input fields with a "to" separator.
- Geographic Criteria:**
 - Primary Jurisdiction:** A checkbox.
 - Local Health Jurisdiction:** A list box containing "Allegan County", "Barry-Eaton", "Bay County", and "Benzie-Leelanau".
 - County:** A list box containing "Alcona", "Alger", "Allegan", and "Alcona".
 - Region:** A list box containing "1", "2 North", "2 South", and "3".
 - Facility:** A list box containing "ALLEGAN GENERAL HOSP", "ALPENA GENERAL HOSP", "BARAGA COUNTY MEM HOSP", and "BATTLE CREEK HLTH SYS".
- Buttons:** "Search", "Save & Finish", "Advanced", "Cancel", and "Help". The "Search" button is circled in red.

Editing and Deleting Searches

The **Searches** function provides access to your saved searches

Search Name	Date Created	Default			
All Open Investigations	10/21/2011	X	Search	Edit	
My Open Investigations	10/21/2011		Search	Edit	Delete

- Searches can be executed, edited, or deleted
- You cannot delete your default search, but **EDIT** allows you to select a new default search
- The **EDIT** Search screen looks just like the New Search screen but pre-selects that searches existing search criteria

Disease Specific Searches and Exports

Disease Specific Search

Cases
New Case
New Aggregate Cases
Searches
New Search
New Aggregate Search
Disease Specific Search
Search Field Records
Case Definitions
Alert Rules
Blank Forms
User Profile

- The **Search** and **New Search** functions limit the selectable criteria to **basic case information** - information that is common to all diseases such as the patient last name
- The **Disease Specific Search** expands the selectable criteria to include all of the data collected for a particular reportable condition from the Case Detail Form

Performing a Disease Specific Search

- Click **Disease Specific Search**
- Select the reportable condition. **Note: you may only search one condition at a time**
- Click the **SELECT** button and the Disease Specific Search form will open

The screenshot shows a software interface for 'Case Investigation'. The top navigation bar includes 'Case Investigation', 'Administration', and 'Messages'. A left sidebar contains the following menu items: Cases, New Case, New Aggregate Cases, Searches, New Search, New Aggregate Search, **Disease Specific Search** (highlighted), Search Field Records, Case Definitions, Alert Rules, Blank Forms, User Profile, and User Directory. The main content area is titled 'Disease Specific Search' and features a 'Reportable Condition :' label above a scrollable list of conditions. The list includes: Acute Flaccid Myelitis (AFM) (highlighted), Amebiasis, Anthrax, Babesiosis, Blastomycosis, Botulism - Foodborne, Botulism - Infant, Botulism - Other, Brucellosis, CP-CRE, Campylobacter, Candidiasis, Chancroid, Chickenpox (Varicella), Chikungunya, Chlamydia (Genital), Cholera, Coccidioidomycosis, Creutzfeldt-Jakob Disease, Cryptococcosis, Cryptosporidiosis, Cyclosporiasis, Dengue Fever, Diphtheria, Ehrlichiosis, Anaplasma phagocytophilum, Ehrlichiosis, Ehrlichia chaffeensis, Ehrlichiosis, Ehrlichia ewingii, Ehrlichiosis, human other/undetermined, Encephalitis, California, and Encephalitis, Eastern Equine. To the right of the list is an 'Include Historic Forms' checkbox (unchecked) and a 'SELECT' button. A 'Help' button is also visible at the bottom right of the list area.

NOTE: Select the 'Include Historic Forms' checkbox to include case detail forms that are no longer used in the drop-down menu of conditions

Disease Specific Search

Submit Query
Cancel

STEC Case Investigation Search

Michigan Department of Health and Human Services
Communicable Disease Division

Investigation Information

Investigation ID	Onset Date <i>mm/dd/yyyy</i> to	Diagnosis Date <i>mm/dd/yyyy</i> to	Referral Date <i>mm/dd/yyyy</i> to	Case Entry Date <i>mm/dd/yyyy</i> to	Case Completion Date <i>mm/dd/yyyy</i> to
Investigation Status	Case Status <input type="checkbox"/> Confirmed <input type="checkbox"/> Not a Case <input type="checkbox"/> Probable <input type="checkbox"/> Suspect <input type="checkbox"/> Unknown <input type="checkbox"/> Non-Michigan Case			<input type="checkbox"/> State Prison Cases <input type="checkbox"/> Non Prison Cases	
Patient Status	Patient Status Date <i>mm/dd/yyyy</i> to	Case Disposition	Part of an outbreak?	Outbreak Name	Case Updated Date <i>mm/dd/yyyy</i> to

Patient Information

Patient ID	First	Last	Middle
Street Address			
City	County	State	Zip
Home Phone <i>### ### ####</i>	Ext. to	Other Phone <i>### ### ####</i>	Ext. to
Parent/Guardian (required if under 18)			
First	Last	Middle	

- The **Disease Specific Search** forms look like the case detail form
- The form has been modified to accommodate ranges and wildcards

Disease Specific Search

Possible Search Criteria:

- Person
- Place
- Time
- Symptoms
- Labs
- Treatment
- Risk Factors
- Vaccine History

<input type="button" value="Submit Query"/> <input type="button" value="Cancel"/>					
<h2 style="margin: 0;">STEC Case Investigation Search</h2> <p style="margin: 0;">Michigan Department of Health and Human Services</p> <p style="margin: 0; font-size: small;">Communicable Disease Division</p>					
Investigation Information					
Investigation ID	Onset Date <small>mm/dd/yyyy</small> [] to []	Diagnosis Date <small>mm/dd/yyyy</small> [] to []	Referral Date <small>mm/dd/yyyy</small> [] to []	Case Entry Date <small>mm/dd/yyyy</small> [] to []	Case Completion Date <small>mm/dd/yyyy</small> [] to []
Investigation Status []		Case Status <input type="checkbox"/> Confirmed <input type="checkbox"/> Not a Case <input type="checkbox"/> Probable <input type="checkbox"/> Suspect <input type="checkbox"/> Unknown <input type="checkbox"/> Non-Michigan Case			<input type="checkbox"/> State Prison Cases <input type="checkbox"/> Non Prison Cases
Patient Status []	Patient Status Date <small>mm/dd/yyyy</small> [] to []	Case Disposition []	Part of an outbreak? []	Outbreak Name []	Case Updated Date <small>mm/dd/yyyy</small> [] to []
Patient Information					
Patient ID	First []	Last []		Middle []	
Street Address []					
City []	County []	State []	Zip []		
Home Phone <small>### ### ####</small> []	Ext. [] to []	Other Phone <small>### ### ####</small> []	Ext. [] to []		
Parent/Guardian (required if under 18)					
First []		Last []		Middle []	

Disease Specific Search Criteria

To match all of the data stored for the particular field, leave the form field empty

To match all data that has the exact value of the particular word or phrase, enter the word or phrase

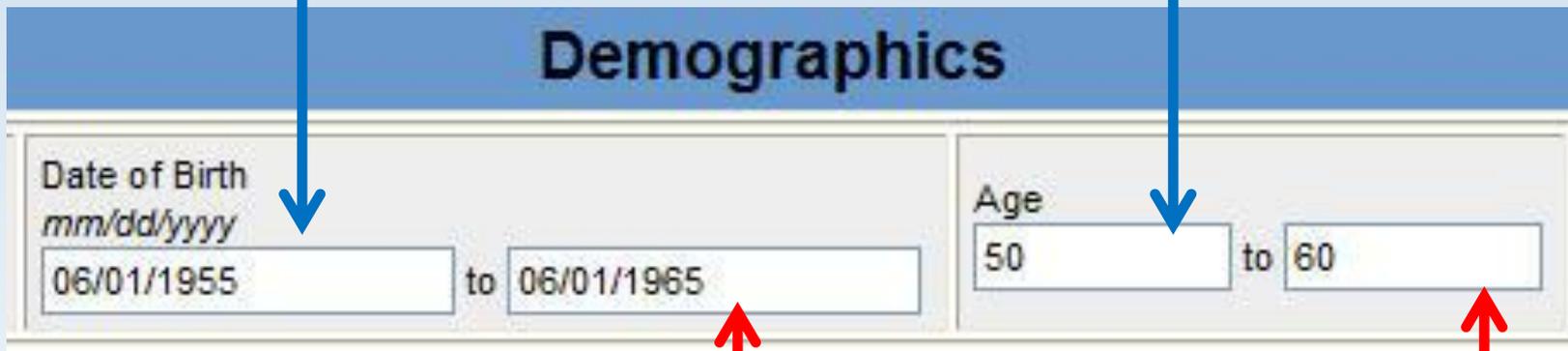
To match all data that starts with a particular word or phrase, enter the word or phrase followed immediately by the wildcard (*)

Person Providing Referral		
First <input type="text"/>	Last <input type="text" value="Smith-Jones"/>	Phone ###-###-#### <input type="text"/>
Primary Physician		
First <input type="text" value="La*"/>	Last <input type="text"/>	Phone ###-###-#### <input type="text"/>
Street Address <input type="text"/>		
City <input type="text"/>	County <input type="text"/>	St <input type="checkbox"/>

Date and Numeric Search Criteria

Selecting a range of values

Enter the beginning range in the space preceding the 'to' label



The image shows a search form titled "Demographics" with two input fields. The first field is labeled "Date of Birth" with a sub-label "mm/dd/yyyy" and contains the text "06/01/1955" followed by "to" and another input box containing "06/01/1965". The second field is labeled "Age" and contains the text "50" followed by "to" and another input box containing "60". Blue arrows point from the top text box to the beginning of each input field. Red arrows point from the bottom text box to the end of each input field.

Enter the ending range in the space following the 'to' label

Checkbox Search Criteria

If one or two values are checked, only cases with those selected values will be returned

The screenshot shows a search interface with the following elements:

- Case Status:** A group of four checkboxes: Confirmed, Not a Case, Probable, and Suspect. The Suspect checkbox is also present. The Probable checkbox is highlighted with a dashed border.
- Part of an outbreak?:** A dropdown menu.
- Outbreak Name:** A text input field.
- Case Updated Date:** A date range selector with the format *mm/dd/yyyy* and a 'to' label.

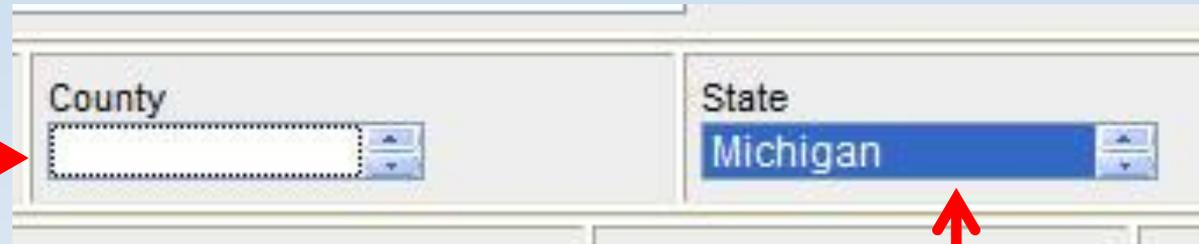
Red arrows point from the top text box to the Confirmed, Probable, and Suspect checkboxes. A red arrow points from the bottom-left text box to the Outbreak Name input field.

If none or all of the values are checked, cases with any value for that field will be returned

In this example, all Confirmed, Probable, or Suspect cases will be returned, regardless of whether a case was part of an outbreak

Drop-Down Box Search Criteria

If none or all of the values are selected from the drop-down option list, cases with any value for that field will be returned



The image shows a search interface with two drop-down boxes. The first box is labeled 'County' and is currently empty, with a dotted border around the text area. The second box is labeled 'State' and contains the text 'Michigan'. The 'State' box has a blue background, indicating that a value has been selected. Red arrows point from the text boxes to these respective drop-down boxes.

If one or more values are selected, only cases with those selected values will be returned

NOTE: *The blue background indicates that a drop-down option is available or has been selected*

Table Search Criteria

- Search criteria fields can be represented in a table format as a string, phone number, date, or as drop-down boxes
- Drop-down box options are listed in the column
- To select a drop-down option within a table, click the option you wish to select

<i>Animal Contacts</i>		
Type of Animal	Contact?	Specify
()	(Y=Yes N=No UNK=Unknown)	()
Reptiles (snake, turtle, lizard, etc.)	Yes	
Livestock (cattle, sheep, etc.)		

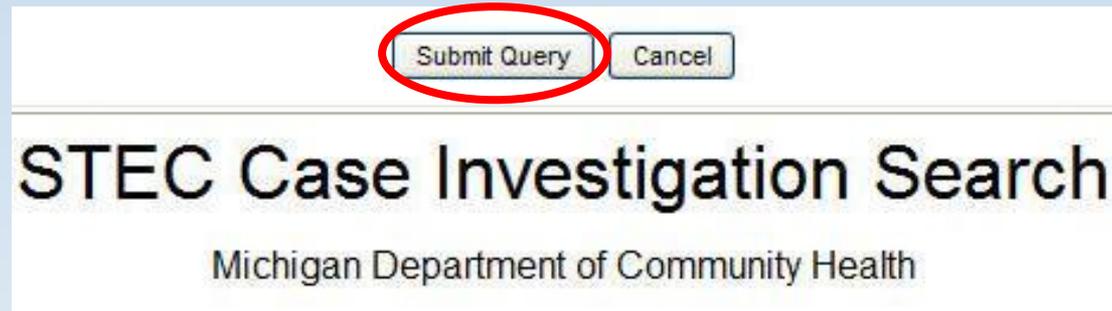
Table Search Limitations

Table searches are limited to searching for the data as it was entered on a given row

- If you are looking for cases where the patient was in contact with “John Doe” you must supply the name “John Doe” to the exact row within the contact table where it was entered
- Specifying “John Doe” as the search criteria on the first row of the table will only return cases where “John Doe” was listed as the first contact during case entry, it will not return cases where “John Doe” was listed as the second, third, or fourth contact. Similarly entering “John Doe” on each line will only return cases where “John Doe” was entered on each line
- **For efficiency, do not place selection criteria in these fields; you can export and view the data in a spreadsheet**

Disease Specific Search Results

- When finished entering search criteria, click **SUBMIT QUERY** at the top of the page



Submit Query Cancel

STEC Case Investigation Search

Michigan Department of Community Health

- The search executes and launches the "Case Listings" to display the search results

Displaying results 1-10 of 40 found

[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [\[Next >>\]](#) [\[Last >\]](#)

Case Listings										Investigation Status	Sort	Temporary	Search	Export
Investigation Status	Case Status	Investigation ID	Referral Date	Patient Name	Date of Birth	Disease	Investigator	County						
Completed	Confirmed	51081	08/19/2004	GIBSON, MEL 184578	01/01/1999	Shiga toxin-producing Escherichia coli --(STEC Pre-2019)*	COLLINS, JIM	Gogebic					Edit	
Completed	Suspect	5776951	06/03/2005	SMITH, BETTY	11/20/1980	Shiga toxin-producing Escherichia coli --(STEC Pre-2019)*	COLLINS, JIM	Ingham					Edit	
New	Confirmed	5474104	04/29/2010	DELL, JENN		Shiga toxin-producing Escherichia coli --(STEC Pre-2019)*	HENDERSON, TIFFANY A	Ingham					Edit	

Disease Specific Export

- The Disease Specific Export expands the subset of exportable data to include all of the data collected on the associated Disease Specific Form
- The Disease Specific Export is accessible from the “Case Listings” screen after the search results are displayed from a Disease Specific Search

Performing a Disease Specific Export

1. Following a **Disease Specific Search**, from the “Case Listings” screen, click the **EXPORT** button

Displaying results 1-10 of 40 found

[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [\[Next >>\]](#) [\[Last >\]](#)

Case Listings										
		Investigation Status	Sort	Temporary	Search	Export	Help			
Investigation Status	Case Status	Investigation ID	Referral Date	Patient Name	Date of Birth	Disease	Investigator	County		
Completed	Confirmed	51081	08/19/2004	GIBSON, MEL 184578	01/01/1999	Shiga toxin-producing Escherichia coli --(STEC Pre-2019)*	COLLINS, JIM	Gogebic	Edit	View
Completed	Suspect	5778951	06/03/2005	SMITH, BETTY	11/20/1980	Shiga toxin-producing Escherichia coli --(STEC Pre-2019)*	COLLINS, JIM	Ingham	Edit	View
New	Confirmed	5474104	04/29/2010	DELL, JENN		Shiga toxin-producing Escherichia coli --(STEC Pre-2019)*	HENDERSON, TIFFANY A	Ingham	Edit	View

2. The Disease Specific Export form appears

Selecting Fields to Export

3. Either click the **SELECT ALL** button located at the top of the form OR click the individual checkboxes next to the fields desired - only the selected fields will be exported

Gastrointestinal Illness Case Investigation

Shiga toxin-producing E. coli (STEC)

Michigan Department of Health and Human Services

Communicable Disease Division

Investigation Information					
Investigation ID	Onset Date <i>mm/dd/yyyy</i> <input checked="" type="checkbox"/> export as Onset Date	Diagnosis Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as	Referral Date <i>mm/dd/yyyy</i> <input checked="" type="checkbox"/> export as Referral Date	Case Entry Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as	Case Completion Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as
Investigation Status <input checked="" type="checkbox"/> export as Investigation Status		Case Status <input checked="" type="checkbox"/> export as Case Status		State Prison Case <input type="checkbox"/> export as	
Patient Status <input type="checkbox"/> export as	Patient Status Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as	Case Disposition <input type="checkbox"/> export as	Part of an outbreak? <input type="checkbox"/> export as	Outbreak Name <input type="checkbox"/> export as	Case Updated Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as

Disease Specific Export

4. You may supply alternate export column titles by overwriting the column title that appears next to the “*export as*” label within each field
5. Click the **EXPORT** button

Note: On certain computer systems, the user must click and hold down the Ctrl button until the export is COMPLETE

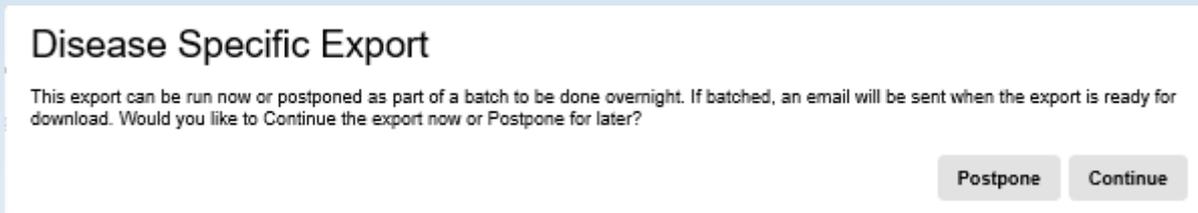
Export Select All Cancel

Gastrointestinal Illness Case Investigation
Shiga toxin-producing E. coli (STEC)
Michigan Department of Health and Human Services
Communicable Disease Division

Investigation Information					
Investigation ID	Onset Date mm/dd/yyyy <input checked="" type="checkbox"/> export as Onset Date	Diagnosis Date mm/dd/yyyy <input type="checkbox"/> export as	Referral Date mm/dd/yyyy <input checked="" type="checkbox"/> export as Referral Date	Case Entry Date mm/dd/yyyy <input type="checkbox"/> export as	Case Completion Date mm/dd/yyyy <input type="checkbox"/> export as

Exporting the File

6. A pop-up will appear asking if you want to export the search immediately or let it run overnight (it is preferred to run large data exports overnight so that they do not tax the system). Click “Continue” or “Postpone”



7. When you click **Continue** you will receive another pop-up message. Click **OPEN** or **SAVE** to proceed
If your system requires the Ctrl Button method continue to hold it down here



Viewing the Disease Specific Export File

This is an example of an export file as viewed with Microsoft Excel®

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Investigat	NETSSID	JURISDICT	Onset_Dat	Diagnosis	Referral_Da	Case_Entry	Case_Corr	Investigat	Case_Stat	State_Pris	Patient_S	Patient_S	Case_Disp	Part_of_a	Outbreak	Case_Upd	Patient
2	51081	42	Western U	8/19/2004		8/19/2004	8/19/2004	4/2/2014	Complete	Confirmed	MDOC	A	#####	O	U		4/2/2014	76484
3	1746053	1324	Delta-Mer	2/15/2012		2/20/2012	2/20/2012	#####	Complete	Confirmed		A	#####	I	U		#####	17460
4	5474104	3449	Ingham County			4/29/2010	4/29/2010		New	Confirmed		A	#####	O	U		#####	54741
5	5474965	3450	Ingham County			4/29/2010	4/29/2010		New	Confirmed		A	#####	O	U		#####	57196
6	5475810	3451	Ingham County			4/29/2010	4/29/2010		New	Confirmed		A	#####	O	U		#####	54758
7	5541473	3477	Kent Cour	1/1/2004		6/8/2010	6/8/2010		New	Unknown		A	6/8/2010	O	U		6/8/2010	55414
8	5542137	3478	Kent Cour	6/7/2010		6/8/2010	6/8/2010		New	Unknown		A	6/8/2010	O	U		6/8/2010	55421
9	5542801	3479	Kent Cour	6/7/2010		6/8/2010	6/8/2010		New	Unknown		A	6/8/2010	O	U		6/8/2010	55427
10	5543541	3480	Kent County			6/8/2010	6/8/2010		New	Unknown		A	6/8/2010	O			6/8/2010	55435
11	5721107	3509	Ingham County			6/18/2010	6/18/2010		New	Confirmed		A	#####	O			#####	57204

- A data dictionary is available to help interpret export results: www.michigan.gov/mdss, Click on MDSS Guides and References

I'm having a problem . . .

.

Who can help me?

Support and Help Contacts

- User Guides, FAQs, and Tip Sheets are available at www.mi.gov/mdss
- For browser, adobe, or connectivity issues, contact your local IT support
- Contact your local MDSS administrator for general questions
- Regional Epidemiologists are always available!

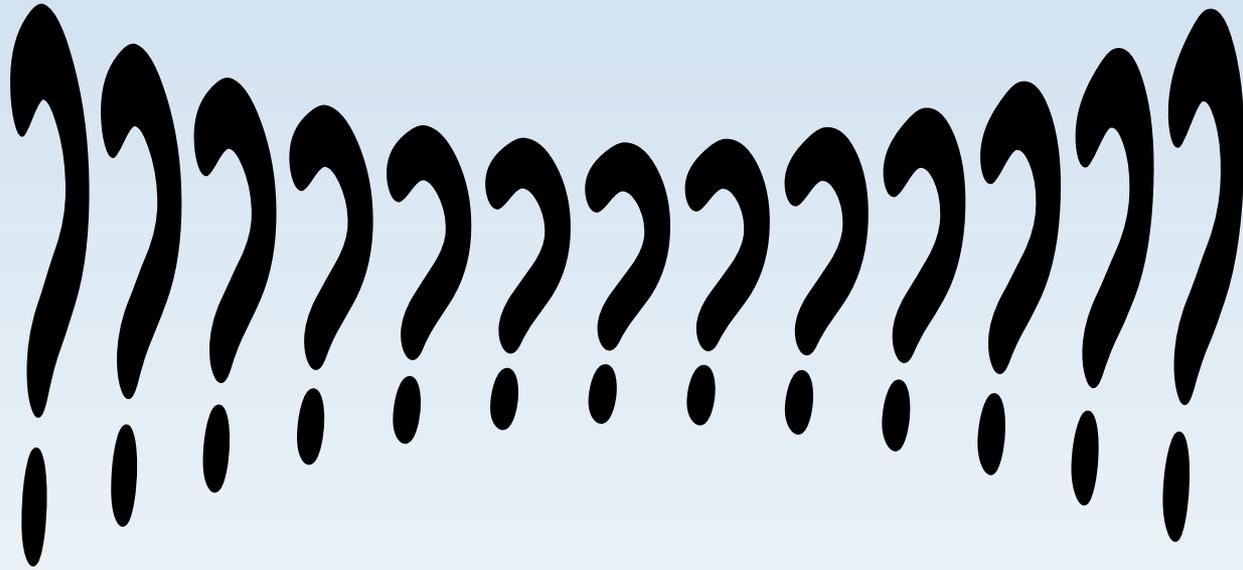
Regional Epidemiologists

Region	Name	Phone/Cell	E-Mail	Counties
1	Meghan Weinberg	517.887.4615 (Ingham) 517.552.6878 (Livingston)	WeinbergM1@michigan.gov	Clinton, Eaton, Gratiot, Hillsdale, Ingham, Jackson, Lenawee, Livingston, Shiawassee
2N	Nicole Parker-Strobe	248.452.9936 517.930.6906 (Cell)	ParkerStrobeN@michigan.gov	Macomb, Oakland, St. Clair
2S	Joyce Lai	734.727.7204 517.930.6958 (Cell)	LaiJ@michigan.gov	Detroit City, Monroe, Washtenaw, Wayne
3	vacant	989.832.6690 517.930.6910 (Cell)		Alcona, Arenac, Bay, Genesee, Gladwin, Huron, Iosco, Lapeer, Midland, Ogemaw, Saginaw, Sanilac, Tuscola
5	Bethany Reimink	269.373.5293 517.719.0407 (Cell)	ReiminkB@michigan.gov	Allegan, Barry, Berrien, Branch, Calhoun, Cass, Kalamazoo, St. Joseph, Van Buren
6	Fatema Mamou	616.632.7245 517.204.6086 (Cell)	MamouF@michigan.gov	Clare, Ionia, Isabella, Kent, Lake Mason, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, Osceola, Ottawa
7	Roger Racine	231.995.6106 517.930.6914 (Cell)	RacineR@michigan.gov	Alpena, Antrim, Benzie, Charlevoix, Cheboygan, Crawford, Emmet, Grand Traverse, Kalkaska, Leelanau, Manistee, Missaukee, Montmorency, Oscoda, Otsego, Presque Isle, Roscommon, Wexford
8	Scott Schreiber	906.643.1100x108 517.930.6900 (Cell)	SchreiberS@michigan.gov	Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac,

Acknowledgements

- **Michigan Department of Health and Human Services (MDHHS)**
 - Bureau of Infectious Diseases
 - Bureau of Laboratories
 - Division of Emergency Preparedness & Response
- **Michigan Department Technology, Management, and Budget (DTMB)**
- **Altarum Institute**
- **Scientific Technologies Corporation**
- **MDSS Pilot Jurisdictions**
 - Macomb, Kent, Washtenaw, Marquette and Central Michigan
- **MDSS Steering Committee Members**
 - Matthew Boulton, Bill Colville, Frances Downes, John Dyke, Jim Lee, Pamela Masur, Whitney Mauer, Linda Myers, John Petrasky, Girish Salpekar, Bill Schneider, Melinda Wilkins

Questions



Running Reports

or

“What is happening around the state?”

Reports

There are several reports formats available within the MDSS Reports module:

- Report 1 - Line Listing
- Report 2 - Disease by Demographics
- Report 3 - Diseases YTD
- Report 4 - Diseases – 5 Year History
- Report 5 - Diseases YTD by Geography
- Report 6 - Disease History by Geography
- Report 7 - Diseases by Geography
- Report 8 - Epi Curve
- Aggregate Case Report
- Audit Report
- GIS Map of Diseases by Geography
- TB Reports

MDSS Reports Quick Reference

In the examples shown below, settings have been chosen arbitrarily and numerous options are available for each report. Geographic breakdown includes state, region, local health jurisdiction, county, or city. Time interval includes year, month, and week. Reports #2-7 can be run for either count or rate per 100,000. **Note: Reports 3, 4, 5, 6, and Aggregate automatically use onset date if available, otherwise referral date.*

Report 1: Line Listing

Invest. ID	Age	Sex	Condition	Status	Referral
230144 9138	32 Y	M	Amebiasis	Confirmed, Active	05/13/2010
230119 9035	48 Y	F	Campylobacter	Confirmed, Active	05/13/2010
228630 0585	79 Y	M	Campylobacter	Probable, New	05/05/2010

Line list of individual cases from selected disease(s) or disease group. You choose which fields/columns to display.

Report 6: Disease History by Geography*

Region	2006	2007	2008	2009
1	4870	4848	4668	4394
2 North	6707	7244	7552	8463
2 South	24138	23523	27265	20531
3	7117	6862	6647	6833

Statewide 5 year history for a selected disease or disease group. Select geographic breakdown and time interval.

Report 2: Diseases by Demographics

Disease Group	Disease	<1 yr	1-4	5-9	10-14
Other	Brucellosis	0	0	0	0
	Cholera	0	0	0	0
	Coccidioidomycosis	0	0	0	0
	Creutzfeldt-Jakob Disease	0	0	0	0

Counts/rate for a selected time period stratified by sex, age, race, or ethnicity. All disease/disease groups are displayed.

Report 7: Diseases by Geography

Disease Group	Disease	1	2 North	2 South	3
Other	Creutzfeldt-Jakob Disease	0	0	0	0
	Cryptococcosis	0	0	1	0
	Cyclosporiasis	0	0	0	0

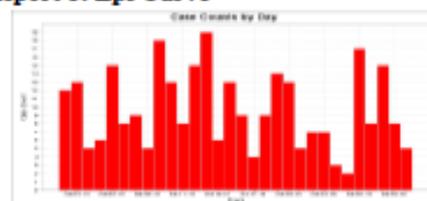
Counts/rate for a selected time period for all disease/disease groups. Select overall geographic area and geographic breakdown.

Report 3: Diseases YTD*

Disease Group	Disease	Jan	Feb	Mar	Apr	May
Other	Creutzfeldt-Jakob Disease	1	0	1	0	1
	Cryptococcosis	2	4	5	1	3
	Cyclosporiasis	0	1	0	0	0

Year-to-date aggregate counts/rate for all disease/disease groups. Select geography and time interval (week or month).

Report 8: Epi Curve



Epi curve of case count over time for a selected disease or disease group. Select time period, time interval, and geographic area.

Report 4: Diseases - 5 Year History*

Disease Group	Disease	2006	2007	2008	2009	2010
Other	Creutzfeldt-Jakob Disease	12	16	18	15	3
	Cryptococcosis	57	53	70	76	15
	Cyclosporiasis	0	1	2	3	1

5 year history of counts/rate for all disease/disease groups. Select geography and time interval.

Aggregate Case Report*

Regions	05-2009	06-2009	07-2009	08-2009	09-2009
1	1166	995	33	16	2425
2 North	2095	3176	30	5	2241
2 South	2575	1682	58	8	3420

Statewide counts for aggregate conditions. Select time period, geographic breakdown, condition, and reporting source.

Report 5: Diseases YTD by Geography*

Region	Jan	Feb	March	April	May	Total
1	364	323	440	364	183	1674
2 North	717	614	793	703	487	3314
2 South	2400	2282	2676	2189	1040	10587

Statewide year-to-date counts/rates for a selected disease or disease group. Select geographic breakdown and time interval.

GIS Map of Diseases



Map of count or rate for selected disease or disease group. Select time period and geographic breakdown.

HCP Report Access

- The HCP Role has access to all MDSS Reports with one restriction:
 - Report 1 – Line Listing - presents patient-level data. Therefore, this report has the same security as the “Case Listings” (i.e., patient level data reports can only be viewed and exported by users with authorized roles to view that data in the system)

General Characteristics of Reports

Each report provides a report parameter screen –

the selected parameters are used to identify which cases are included in the report and to determine the format of the report

1. Line Listing	Report 4 - Table of Diseases Comparing A Given Timeframe for Past 5 Years
2. Diseases by Demographics	Aggregate / Individual Cases The default is to include both aggregate and individual cases
3. Diseases YTD	<input type="checkbox"/> Aggregate cases only <input type="checkbox"/> Individual cases only
4. Diseases - 5 Year History	Table Type <input checked="" type="radio"/> Counts <input type="radio"/> Cases Per 100,000 Census Year: 2010
5. Diseases YTD by Geography	Time Period Five year period ending Year (yyyy): 2019
6. Disease History by Geography	Time Period Based On: <input checked="" type="radio"/> Onset Date if available, otherwise Referral Date <input type="radio"/> Onset Date <input type="radio"/> Referral Date
7. Diseases by Geography	Case and Investigation Status Case Status: Confirmed, Confirmed-Non Resident, Non-Michigan Case Investigation Status: Active, Canceled, Completed
8. Epi Curve	Display Interval <input type="radio"/> By Year <input checked="" type="radio"/> By Month (From month: January through month: December) <input type="radio"/> By Week (From week: 01 through week: 49)
Aggregate Case Report	Geographic Area <input checked="" type="radio"/> State Wide <input type="radio"/> County (Alcona, Alger, Allegan) <input type="radio"/> Region (1, 2 North, 2 South)
Audit Report	<input type="radio"/> Local Health Jurisdiction (Allegan County, Barry-Eaton, Bay County) <input type="radio"/> Zip
GIS Map of Diseases by Geography	<input type="radio"/> City (Adrian city, Albion city, Algonac city) <input type="radio"/> Township (Acme township, Ada township, Adams township (Arenac County))
TB Reports	<input type="radio"/> School District (ADAMS TOWNSHIP SCHOOL DISTRICT, ADDISON COMMUNITY SCHOOLS, ADRIAN CITY SCHOOL DISTRICT)
	MDOC option <input checked="" type="radio"/> Exclude MDOC cases <input type="radio"/> Include MDOC cases <input type="radio"/> Only MDOC cases
	View HTML Report View PDF Report View CSV Report Reset Help

Selecting the Report Parameters

Although each report is distinct, many of the report parameters are common

Common Parameters:

- Aggregate vs. Individual Cases
- Counts vs. Rates
- Desired Time Period
- Which dates to use to select cases

Report 2 - Table of Diseases by Demographics for a Given Time Period

Aggregate / Individual Cases
The default is to include both aggregate and individual cases

Aggregate cases only Individual cases only

Table Type

Counts Cases Per 100,000 | Census Year:

Time Period

Month: Year(yyyy):

Week:

From Date (mm/dd/yyyy): To Date (mm/dd/yyyy):

Time Period Based On:

Onset Date if available, otherwise Referral Date Onset Date Referral Date

Selecting the Report Parameters

Common parameters (continued):

- What status cases to choose from
- Where should the cases be from

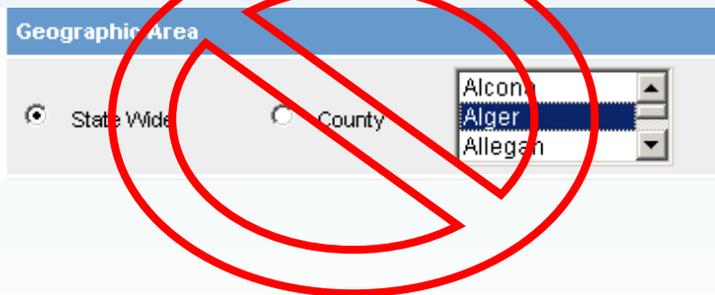
Case and Investigation Status	
Case Status	<input type="text" value="Confirmed"/> <input type="text" value="Confirmed-Non Resident"/> <input type="text" value="Non-Michigan Case"/>
Investigation Status	<input type="text" value="Active"/> <input type="text" value="Canceled"/> <input type="text" value="Completed"/>

Geographic Area	
<input checked="" type="radio"/> State Wide	<input type="radio"/> County
<input type="radio"/> Local Health Jurisdiction	<input type="radio"/> Region
<input type="radio"/> City	<input type="radio"/> Zip
<input type="radio"/> School District	

<input type="text" value="Alcona"/> <input type="text" value="Alger"/> <input type="text" value="Allegan"/>	<input type="text" value="1"/> <input type="text" value="2 North"/> <input type="text" value="2 South"/>
<input type="text" value="Allegan County"/> <input type="text" value="Barry-Eaton"/> <input type="text" value="Bay County"/>	<input type="text" value=""/>
<input type="text" value="Adrian city"/> <input type="text" value="Albion city"/> <input type="text" value="Algonac city"/>	<input type="text" value="Acme township"/> <input type="text" value="Ada township"/> <input type="text" value="Adams township (Arenac County)"/>
<input type="text" value="ADAMS TOWNSHIP SCHOOL DISTRICT"/> <input type="text" value="ADDISON COMMUNITY SCHOOLS"/> <input type="text" value="ADRIAN CITY SCHOOL DISTRICT"/>	

Beware of Report Quirks . . .

- Radio buttons
 - Unlike some other web applications, the MDSS does not automatically highlight the radio button when a selection is made within that box
 - *You must make sure that the appropriate radio buttons are correctly highlighted*



Aggregate vs. Individually Reported Cases

Aggregate / Individual Cases
The default is to include both aggregate and individual cases

Aggregate cases only Individual cases only

- Individually reported cases are name-based cases
- Aggregate cases are generally based on weekly counts from schools or other congregate settings and may include flu-like disease or other illnesses
- Reports allow user to select only aggregate cases or only individually reported cases
- By default, both individual and aggregate are included

Counts vs Rates

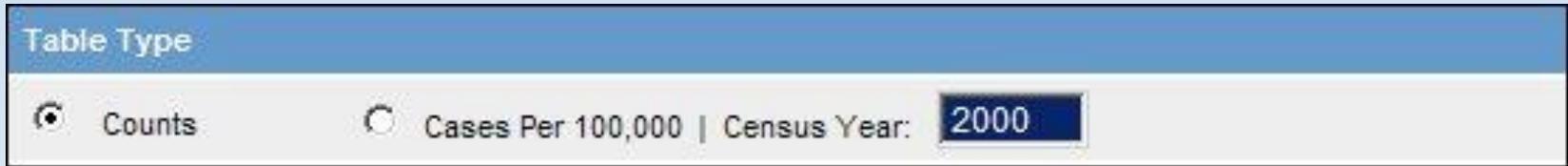


Table Type

Counts Cases Per 100,000 | Census Year: 2000

The user can select the type of information contained in the report:

- **Count** - the report will contain disease counts
- **Rate** - the report will contain rates calculated from disease counts and population data as of the **Census Year** selected
 - The rates display as cases per 100,000 population

Time Period

Time Period

Month: Year(yyyy):

Week:

From Date (mm/dd/yyyy):  To Date (mm/dd/yyyy): 

Time Period Based On:

Onset Date if available, otherwise Referral Date Onset Date Referral Date

- **Month** – includes only cases within the month selected
- **Year** – includes only cases within the year provided
- **Five-year period ending Year** – includes cases within the specified year and preceding four years (based on the provided ending date)
- **From Date / To Date** – includes cases within the date range provided
- **Week** – includes cases within the “MMWR Week” provided
- **Onset vs. Referral** – allows the user to make a report based on disease onset or referral of the case into the LHD

Beware of Report Quirks . . . (2)

Dates

- **For date ranges using the Time Period:**
 - MDSS selects cases with Onset Dates that fall within that range. If Onset Date is missing, the Referral Date will be used (*or the user can dictate this in some of the reports*)
- **For reports by Month or MMWR week:**
 - Month is determined by Onset Date (or Referral Date if Onset Date is unavailable).
 - MMWR Week is always determined by Referral Date

There can be situations where numbers can change from report to report, based on differences in the Onset Date and Referral Date

Case and Investigation Status



The screenshot shows a window titled "Case and Investigation Status". It contains two dropdown menus. The first dropdown, labeled "Case Status", has three options: "Confirmed", "Not a Case", and "Probable". The second dropdown, labeled "Investigation Status", has three options: "Active", "Canceled", and "Completed".

- **Case Status:** defines if a case is confirmed, probable, suspect or not a case, according to the appropriate case definition
- **Investigation Status:** identifies what stage of the investigation the case is in, i.e., active, new or complete, review, etc.
- The user can search cases in any combination of case status or investigation status

Geographic Area

Geographic Area

State Wide County Region

Alcona
Alger
Allegan

1
2 North
2 South

- Only one geographic boundary at a time can be selected
- Cases will be mapped based on the “Investigation Address”
- Only cases that fall within the selected geographic boundary will be included on the report

Geographic Area

The geographic area options limit the report to the geographic area selected and may include:

- Statewide
- Public Health Preparedness Regions
- Local Health Jurisdictions
- County
- City/Township*
- Zip
- School District*

*Cases entered into MDSS that are Geocoded (*the “Geocode Source” is “CGI”*) can be reported by “City/Township” and “School District.” Historic data (originally entered into LHDSURV) has not been geocoded

Disease or Disease Group

Disease or Disease Group

Reportable Condition

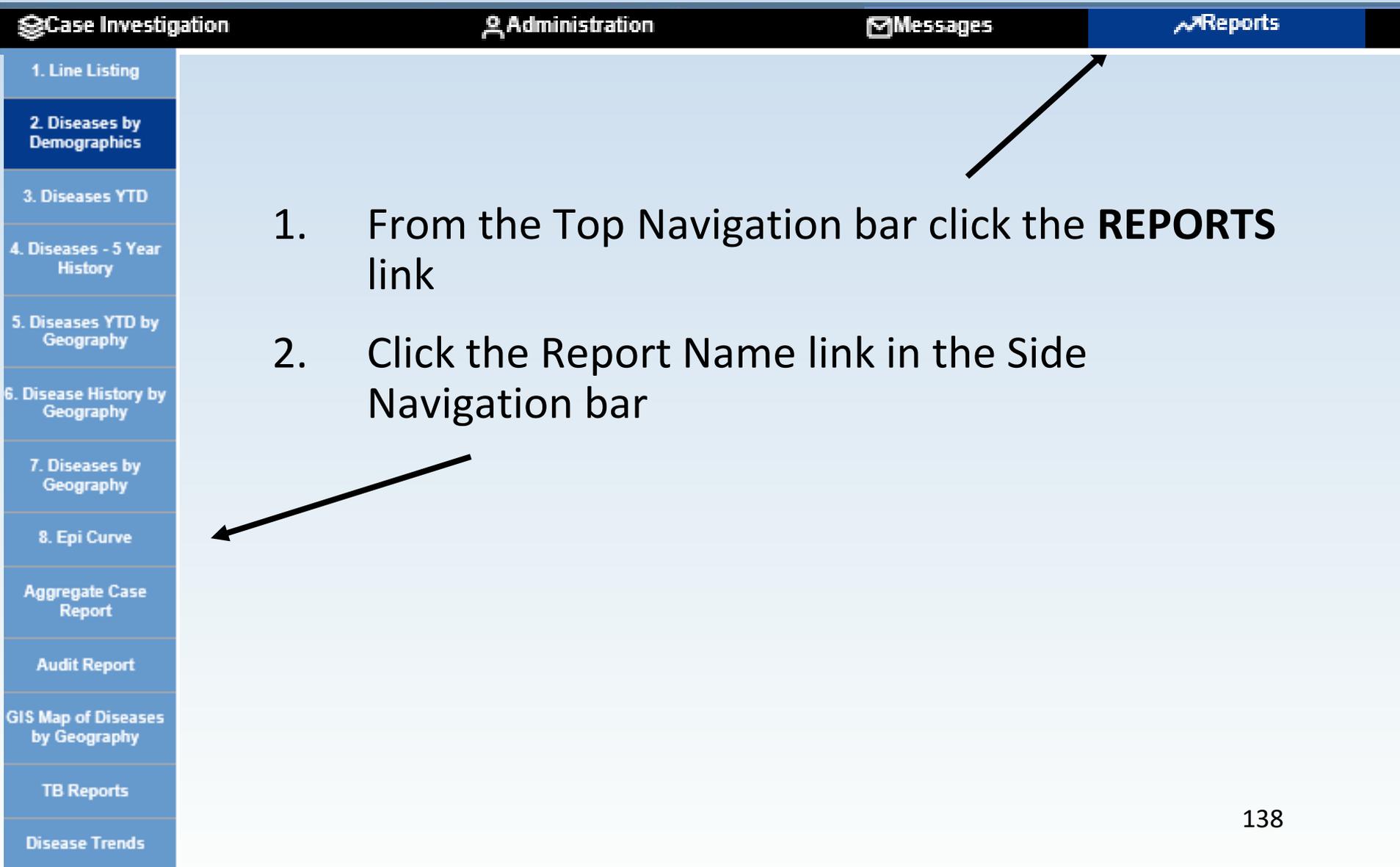
AIDS, Adult
AIDS, Pediatric
Amebiasis

Disease Group

AIDS/HIV
Foodborne
Meningitis

- Only one of radio button can be selected at a time (you can run the report by a reportable condition **OR** by disease group)
- Only the cases of the selected reportable condition or conditions will be included on the report
- Multiple conditions or disease groups can be selected (by holding the Ctrl key), except for Report 8 – Epi Curve
- Making **no** selection indicates **ALL** conditions or disease groups will be included in the report

Running a Report



The screenshot displays a software interface with a top navigation bar and a side navigation bar. The top navigation bar includes links for Case Investigation, Administration, Messages, and Reports. The side navigation bar lists various report options, with '2. Diseases by Demographics' highlighted. Two arrows point from the text instructions to the 'Reports' link in the top bar and the '2. Diseases by Demographics' link in the side bar.

Case Investigation Administration Messages Reports

1. Line Listing
2. Diseases by Demographics
3. Diseases YTD
4. Diseases - 5 Year History
5. Diseases YTD by Geography
6. Disease History by Geography
7. Diseases by Geography
8. Epi Curve
Aggregate Case Report
Audit Report
GIS Map of Diseases by Geography
TB Reports
Disease Trends

1. From the Top Navigation bar click the **REPORTS** link
2. Click the Report Name link in the Side Navigation bar

Running a Report

3. The Report Parameters screen appears

4. Select the parameters needed for your search

Report 2 - Table of Diseases by Demographics for a Given Time Period

Aggregate / Individual Cases
The default is to include both aggregate and individual cases

Aggregate cases only Individual cases only

Table Type
 Counts Cases Per 100,000 | Census Year: 2010

Time Period
 Month: December Year(yyyy): 2019
 Week: 49-2019
 From Date (mm/dd/yyyy): To Date (mm/dd/yyyy):

Time Period Based On:
 Onset Date if available, otherwise Referral Date Onset Date Referral Date

Case and Investigation Status
Case Status: Confirmed, Confirmed-Non Resident, Non-Michigan Case
Investigation Status: Active, Canceled, Completed

Geographic Area
 State Wide County: Alcona, Alger, Allegan Region: 1, 2 North, 2 South
 Local Health Jurisdiction: Allegan County, Barry-Eaton, Bay County Zip
 City: Adrian city, Albion city, Algonac city Township: Acme township, Ada township, Adams township (Arenac County)
 School District: ADAMS TOWNSHIP SCHOOL DISTRICT, ADDISON COMMUNITY SCHOOLS, ADRIAN CITY SCHOOL DISTRICT

MDOC option
 Exclude MDOC cases Include MDOC cases Only MDOC cases

Demographic Variable 1
 Sex Age Group Race Ethnicity

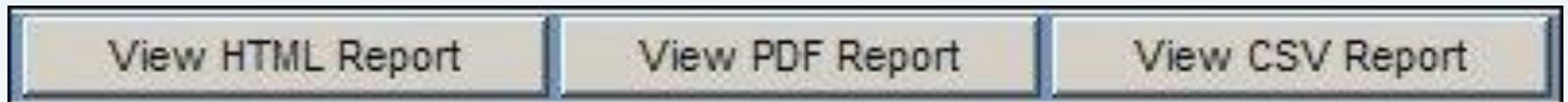
Demographic Variable 2
 Sex Age Group Race Ethnicity

*indicates required items

View HTML Report View PDF Report View CSV Report Reset Help

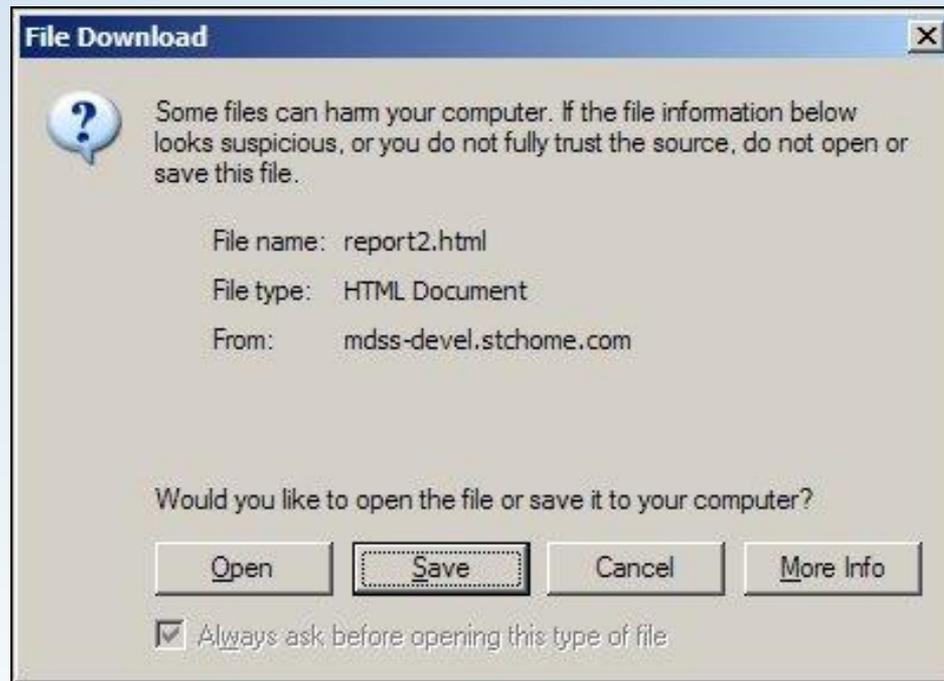
Selecting a Report Format

- Each report (except GIS Map the Epi Curve reports) can be presented in three different formats:
 - HTML REPORT – displays the report as a standard web document
 - PDF REPORT – displays the report as a PDF file in Adobe Acrobat
 - CSV REPORT – creates a Comma Separated Value file. The display of this format depends on the configuration of your PC, but usually (and often best) in Excel or other spreadsheet applications
5. Select the report format by clicking the appropriate button:



Running a Report

6. The following dialog box will appear asking you to confirm your choice of the report output file:



Viewing Report Output

7. Click the OPEN button
8. A new browser window will open to display the report output

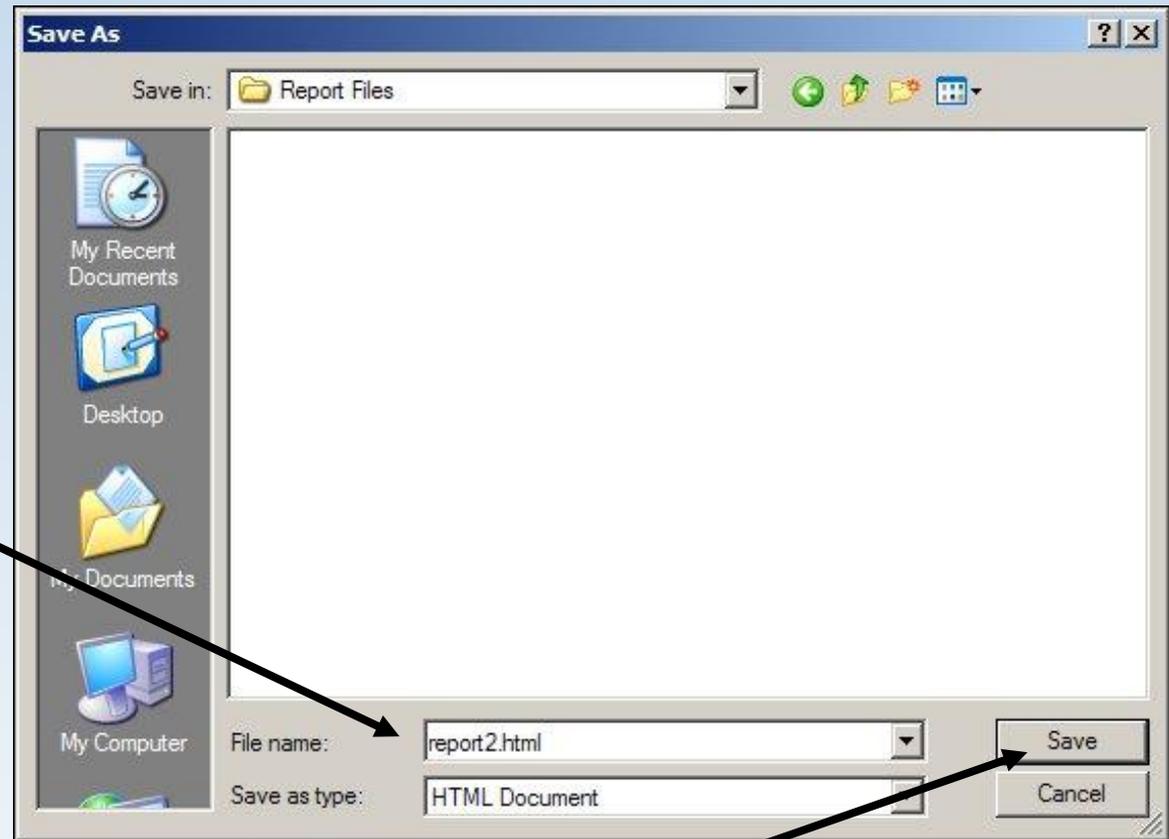
Report 1: Line list of Disease Cases for a Given Timeframe and Geographic Location
 Start Date: Mon Jun 7, 2004
 End Date: Tue Jun 8, 2004
 Reportable Conditions: All conditions
 Geographic Area: The State of Michigan
There are 11 cases listed in this report.

ID	Name	Address	Age	DOB	Race	Ethnicity	Sex	Condition	Status
341934	FLINTSTONE, FREDICK		67 Y		Caucasian	Not Hispanic or Latino	M	Amebiasis	Confirmed
343725	BOOP, BETTY		59 Y	03/15/1945	Caucasian	Hispanic or Latino	F	Botulism - Foodborne	Confirmed
340554	FILBERT, JEFFREY		?		Asian	Not Hispanic or Latino	M	Campylobacter	Suspect
342530	WEYERHAEUSER, GRAYLING		68 Y	06/24/1935	Hawaiian or Pacific Islander	Hispanic or Latino	M	Animal Bite	Suspect
343127	NEWMAN, ALFRED		?		American Indian or Alaska Native	Unknown	U	Blastomycosis	Probable
341372	FILBERT, JEFFREY		?		Asian	Not Hispanic or Latino	M	Brucellosis	Probable
344324	MAY, DAISY		?		Other	Unknown	F	Brucellosis	Probable
341984	MARTIN, RICHARD		61		Caucasian	Hispanic or Latino	M	Shigellosis	Suspect

Saving a Report

OR

- Click the **SAVE** button in the “File Download” box
- The “Save As” Dialog box opens
- Supply a file name and select a location on your computer to store the report



10. Click the **SAVE** button. Your report output file will now reside on your computer in the location that you specified

Report 1 – Line Listing

Line List of Disease Cases for A Given Timeframe and Geographic Location

- This is this only report limited based on geography because it returns identified case information. Users will be limited to cases from their primary jurisdiction
- This report creates a patient-level list of all cases that fall within the specified time period, geographic area and disease selection
- **Display Columns:** select the fields to be included in the report
 - To include a field on your report, activate that field's checkbox
 - To exclude the field, remove the checkmark from the checkbox by clicking on the checkmark associated with the field you wish to exclude

Report 2 – Diseases by Demographics

Table of Diseases by Demographics for a Given Time Period

- Creates a table of counts or rates for all diseases that fall within the specified time period and geographic area
- **Demographic Variable 1 & 2-** select demographic variable(s) for the report:
 - **Sex** – provides a breakdown by Male, Female, and Unknown
 - **Age Group** – provides an incremental age breakdown (e.g., less than 1 year, one through four years, five through nine years, etc.)
 - **Race** – provides a breakdown by race (e.g., Caucasian, Asian, African American, etc.)
 - **Ethnicity** – provides a breakdown by ethnic groups of Hispanic or Latino, Non Hispanic or Latino, and Unknown

Report 3 - Diseases YTD

YTD Table of Diseases for a Given Year

- Creates a table of year-to-date counts or rates for all diseases that fall within the selected year and geographic area
- **Display Interval:** select **By Month** or **By Week** (only one may be selected)
 - **By Month:** includes data from January through December of the year selected
 - **By Week:** includes data from the first to the last MMWR Publication Week of the year selected

Report 4 - Diseases – 5 Year History

Table of Diseases Comparing a selected 5 Year Period

- Creates a comparison table of counts or rates for all diseases reported for the selected year and preceding four years within the geographic area.
- **Display Interval:** select one for a breakdown of counts or rates as follows:
 - **Year:** presented with a column for each year
 - **Month:** presented in columns by month for each year, beginning with the 'From Month' and ending with the 'Through Month'
 - **Week:** presented in columns by week for each year, beginning with the 'From Week' and ending with the 'Through Week'

Display Interval

By Year

By Month

From month:

through month:

By Week

From week:

through week:

147

Report 5 - Diseases YTD by Geography

Year to Date Disease by Geographic Area and Timeframe for a Given Year

- Creates a table of counts or rates for all cases that fall within the selected time period and disease information
- Data are not presented in the report for a given geographic level if the count or rate is equal to zero
- **Display Interval:** select By Month or By Week
 - **By Month:** presented in columns from January of the year selected through the selected ending month (**Through Month**)
 - **By Week:** presented in columns from the first MMWR week of the year selected through the ending MMWR week (**Through Week**)

Display Interval	
<input checked="" type="radio"/> By Month	Through month: <input type="text" value="December"/>
<input type="radio"/> By Week	through week: <input type="text" value="49"/>

Report 5 – Diseases YTD by Geography

- **Geographic Breakdown:** Select one geographic location for the report
 - **Region** – data presented in columns by Public Health Preparedness Regions
 - **County** – data presented in columns by counties
 - **City** – data presented in columns by cities
 - **Zip** – data presented in columns by zip codes

Geographic Breakdown

Region

County

City

Zip

Report 6 - Disease History by Geography

Displays selected Diseases or Disease Groups by Geographic Area and Timeframe

- Creates a comparison table of counts or rates for all cases that fall within the specified year and preceding four years
- Data are not presented in the report for a given geographic level if the count or rate is equal to zero
- **Display Interval:** select one for a breakdown of counts or rates as follows:
 - **Year:** presented with a column for each year
 - **Month:** presented in columns by month for each year, beginning with the 'From Month' and ending with the 'Through Month'
 - **Week:** presented in columns by week for each year, beginning with the 'From Week' and ending with the 'Through Week'

Display Interval

By Year

By Month

From month:

through month:

By Week

From week:

through week:

Report 6 – Disease History by Geography

- **Geographic Breakdown:** Select one geographic location for the report
 - **Region** – data presented in columns by Public Health Preparedness Regions
 - **County** – data presented in columns by counties
 - **City** – data presented in columns by cities
 - **Zip** – data presented in columns by zip codes

Geographic Breakdown

Region

County

City

Zip

Report 7 - Diseases by Geography

Table of Diseases by Geographic location

- Creates a table of counts or rates for all diseases that fall within the selected time period and geographic area
- **Geographic Breakdown:** Select one geographic location for the report
 - **Statewide:** data presented as totals for the State
 - **Region:** data presented in columns by Public Health Preparedness Regions
 - **Local Health Jurisdiction:** data presented in columns by local health jurisdictions
 - **County:** data presented in columns by counties
 - **City:** data presented in columns by cities
 - **Zip:** data presented in columns by zip codes
 - **School District:** data presented in columns by school districts

Geographic Breakdown	
<input type="radio"/> State Wide	<input type="radio"/> County
<input checked="" type="radio"/> Region	<input type="radio"/> City
<input type="radio"/> Local Health Jurisdiction	<input type="radio"/> Zip
<input type="radio"/> School District	

Report 8 - Epi Curve

- Creates a graph showing the number of cases over time for a selected reportable condition or disease group and time period
- The PDF format provides both a graph and data while the CSV format only provides data and the user can prepare the graph
- **Time Interval:** Select one for a breakdown of cases within the selected timeframe
 - **By Month:** cases presented by each month
 - **By MMWR Week:** cases presented by each MMWR week
 - **By Day:** cases presented by each day
- **Disease or Disease Group:** Only **one** reportable condition **OR** disease group may be selected at one time

Time Interval	
<input checked="" type="radio"/>	By Month
<input type="radio"/>	By Week
<input type="radio"/>	By Day

Disease or Disease Group	
<input checked="" type="radio"/> Reportable Condition	<input type="text" value="Acute Flaccid Myelitis (AFM)"/> Amebiasis Anthrax
<input type="radio"/> Disease Group	<input type="text" value="AIDS/HIV"/> Foodborne Influenza153

Aggregate Case Reports

- Returns aggregate report totals for selected time period geographic location
- Select the aggregate statistic for the report (cases, deaths, isolations, hospitalizations)
- Select the condition

Aggregate Reports

Time Period

Month: Year(yyyy):

Week:

From Date (mm/dd/yyyy):  To Date (mm/dd/yyyy): 

Time Interval

By Month By Week By Day

Case and Investigation Status

Case Status:
Confirmed-Non Resident
Non-Michigan Case

Investigation Status:
Canceled
Completed

Geographic Area

Region County Local Health Jurisdiction

Aggregate Statistics

Cases Deaths New Hospitalized Total Hospitalized

New Isolated Total Isolated New Quarantined Total Quarantined

Aggregate Conditions

Condition*:
Gastrointestinal Illness
Head Lice

Reporting Source

Source:
Hospital
LTC

*indicates required items

Audit Report

- Generates information on audited activities for users including:
 - Audit Date
 - Case ID
 - Patient Name & DOB
 - Audit Action
- The report can be run by LHJ Administrators for their jurisdiction
- HCP and Lab users can run the report for their facilities
- The reports shows all actions performed in the time period specified

Audit Cases

Time Period

Month: December Year(yyyy): 2019

From Date (mm/dd/yyyy): To Date (mm/dd/yyyy):

Audit Users Associations

Local Health Jurisdiction

Allegan County
 Barry-Eaton
 Bay County
 Benzie-Leelanau

Facility

ALLEGAN GENERAL HOSP
 ALPENA GENERAL HOSP
 BARAGA COUNTY MEM HOSP
 BATTLE CREEK HLTH SYS

View HTML Report
View PDF Report
View CSV Report
Reset
Help

Audit Report: List of Audited Cases for Users Associated with Specified Facility/Jurisdiction
 Time Period: 01/20/2012 - 01/27/2012

Jurisdiction: Statewide

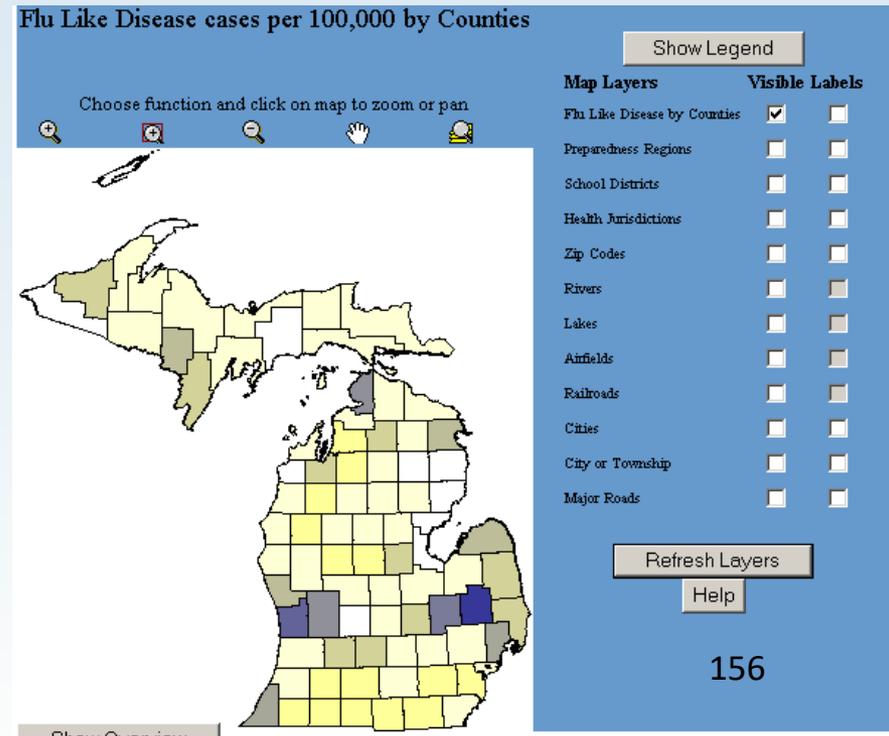
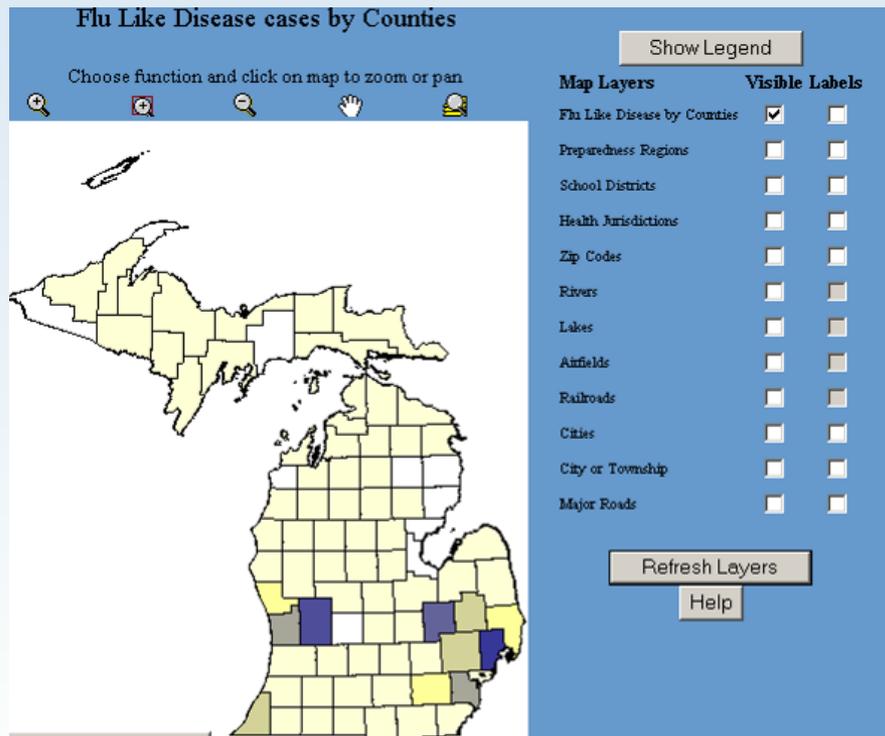
There are 112 rows in this report.

User	Audit Date	Case ID	Patient Name	Patient DOB	Audit Action
CRANDELL-ALDEN, ERIN	01/24/2012	317010074	CRANDELL, SARA	05/01/1974	Add Case
CRANDELL-ALDEN, ERIN	01/24/2012	317010074	CRANDELL, SARA	05/01/1974	Lab Added With New
CRANDELL-ALDEN, ERIN	01/24/2012	317010075	LEWIS, TRACY	04/01/1975	Add Case
CRANDELL-ALDEN, ERIN	01/24/2012	317010075	LEWIS, TRACY	04/01/1975	Patient Not Merged
CRANDELL-ALDEN, ERIN	01/24/2012	317010075	LEWIS, TRACY	04/01/1975	Lab Added With New
CRANDELL-ALDEN, ERIN	01/24/2012	317020041	CRANDELL, SARA	05/01/1974	Add Case
CRANDELL-ALDEN, ERIN	01/24/2012	317020041	CRANDELL, SARA	05/01/1974	Lab Added With New
CRANDELL-ALDEN, ERIN	01/24/2012	317010074	CRANDELL, SARA	05/01/1974	Update Case Detail
CRANDELL-ALDEN, ERIN	01/24/2012	317020072	ELI, JAMES	01/01/1972	Add Case
CRANDELL-ALDEN, ERIN	01/24/2012	317020072	ELI, JAMES	01/01/1972	Lab Added With New
HAMILTON, ELIZABETH	01/23/2012	316990022	SMITH, BRUCE	04/01/1972	Add New Case Data
HAMILTON, ELIZABETH	01/23/2012	316990022	SMITH, BRUCE	04/01/1972	Case Not Merged
HAMILTON, ELIZABETH	01/23/2012	316990022	SMITH, BRUCE	04/01/1972	Update Case Detail
HAMILTON, ELIZABETH	01/24/2012	317000003	CRANDELL, SARA	07/01/1974	Add New Case Data
HAMILTON, ELIZABETH	01/24/2012	317000003	CRANDELL, SARA	07/01/1974	Case Not Merged
HAMILTON, ELIZABETH	01/24/2012	317000003	CRANDELL, SARA	07/01/1974	Update Case Detail
HAMILTON, ELIZABETH	01/24/2012	317000003	CRANDELL, SARA	07/01/1974	Update Case Detail

GIS Map of Diseases by Geography

- Provides statewide maps of individual cases or diseases groups based on user selected time periods, case and investigation status and geographic breakdowns.

2008 Flu-Like Disease, Counts vs. Rates



TB Reports

- The Tuberculosis Reports creates the 'Completion of Therapy' and 'Sputum Culture Conversion' reports for the TB cases that fall within the selected time frame and geographical area
- Statewide TB results are also displayed

The screenshot shows a web application interface for generating Tuberculosis Reports. It features a blue header with the title 'Tuberculosis Reports'. Below the header, there are three main sections: 'Select Indicator', 'Geographic Area', and 'Time Period'. The 'Select Indicator' section has a dropdown menu currently set to 'Completion of Therapy Report'. The 'Geographic Area' section has a dropdown menu for 'County' set to 'Alcona'. The 'Time Period' section has two date input fields: 'From Date (mm/dd/yyyy):' and 'To Date (mm/dd/yyyy):', each with a calendar icon. At the bottom of the form, there are three buttons: 'Run Report', 'Reset', and 'Help'.