

MDSS Training

For Health Care Providers



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 – preferably high-speed
 - 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

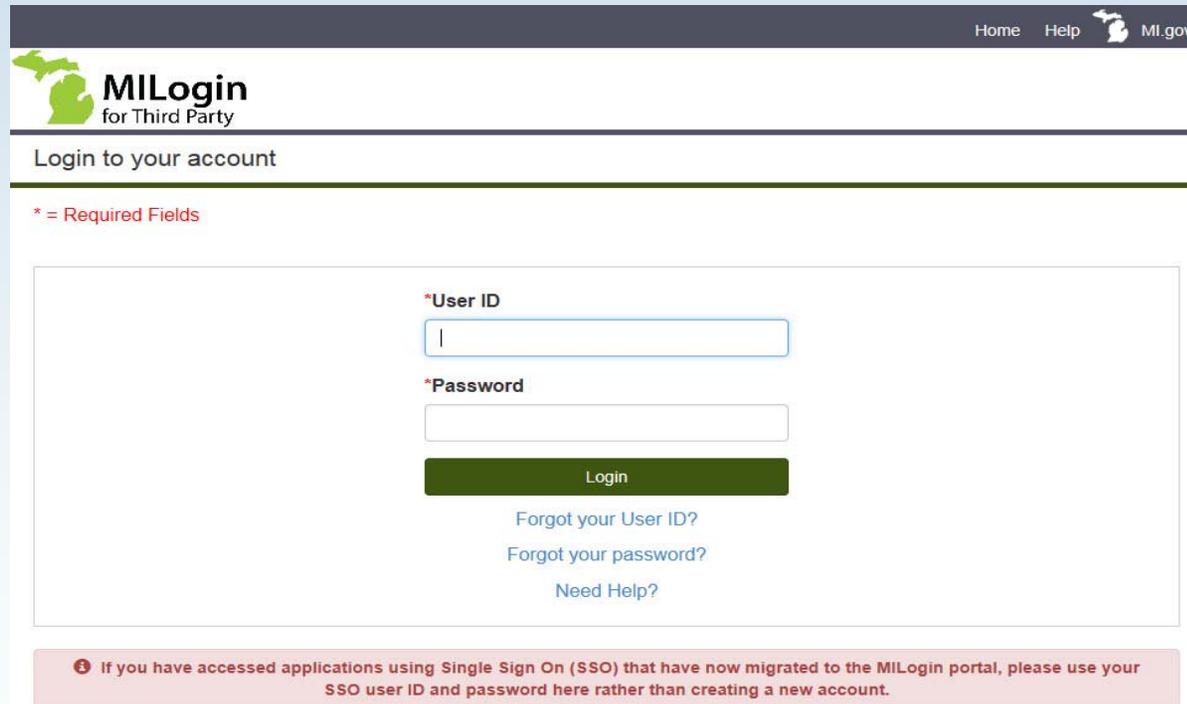
As a Health Care Provider

- 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 shows the MILogin for Third Party login page. At the top right, there are links for "Home", "Help", and "MI.gov". The MILogin logo is on the left, with the text "MILogin for Third Party". Below the logo is the text "Login to your account". A red asterisk indicates required fields. The login form contains two input fields: "*User ID" and "*Password". Below the input fields is a green "Login" button. There are also links for "Forgot your User ID?", "Forgot your password?", and "Need Help?". At the bottom, a red banner contains a message: "If you have accessed applications using Single Sign On (SSO) that have now migrated to the MILogin portal, please use your SSO user ID and password here rather than creating a new account."

Home Help MI.gov

MILogin
for Third Party

Login to your account

* = Required Fields

*User ID

*Password

Login

[Forgot your User ID?](#)
[Forgot your password?](#)
[Need Help?](#)

ⓘ If you have accessed applications using Single Sign On (SSO) that have now migrated to the MILogin portal, please use your SSO user ID and password here rather than creating a new account.

System Use Notification

- Before accessing the MDSS, and other MILogin applications, users are required to acknowledge a set of system use requirements regarding secure access, data use, and system monitoring
- Click Acknowledge/Agree to continue

Terms & Conditions: Michigan Disease Surveillance System ✕

The Michigan Department of Health and Human Services (MDHHS) computer information systems (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 information downloaded, printed, or removed in any format from the systems. When no longer needed, this information must be destroyed in an appropriate manner specific to the format type. All users of the systems give their expressed consent to the monitoring of their activities on the systems. If such monitoring reveals possible evidence of unauthorized or criminal activity, the evidence may be provided to administrative or law enforcement officials for disciplinary action and/or prosecution. By accessing information provided by the Michigan Department of Health and Human Services computer information systems and clicking on the button below, I acknowledge and agree to abide by all governing privacy and security terms, conditions, policies and restrictions for each authorized application.

[Acknowledge/Agree](#) [Cancel](#)

Initial MDSS Screen

Displaying results 1-10 of 3150 found
[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [\[Next >\]](#) [\[Last >\]](#)

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](#) [\[Next >\]](#) [\[Last >\]](#)

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](#)

[Case Definitions](#)

[Display
Supplemental
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](#)

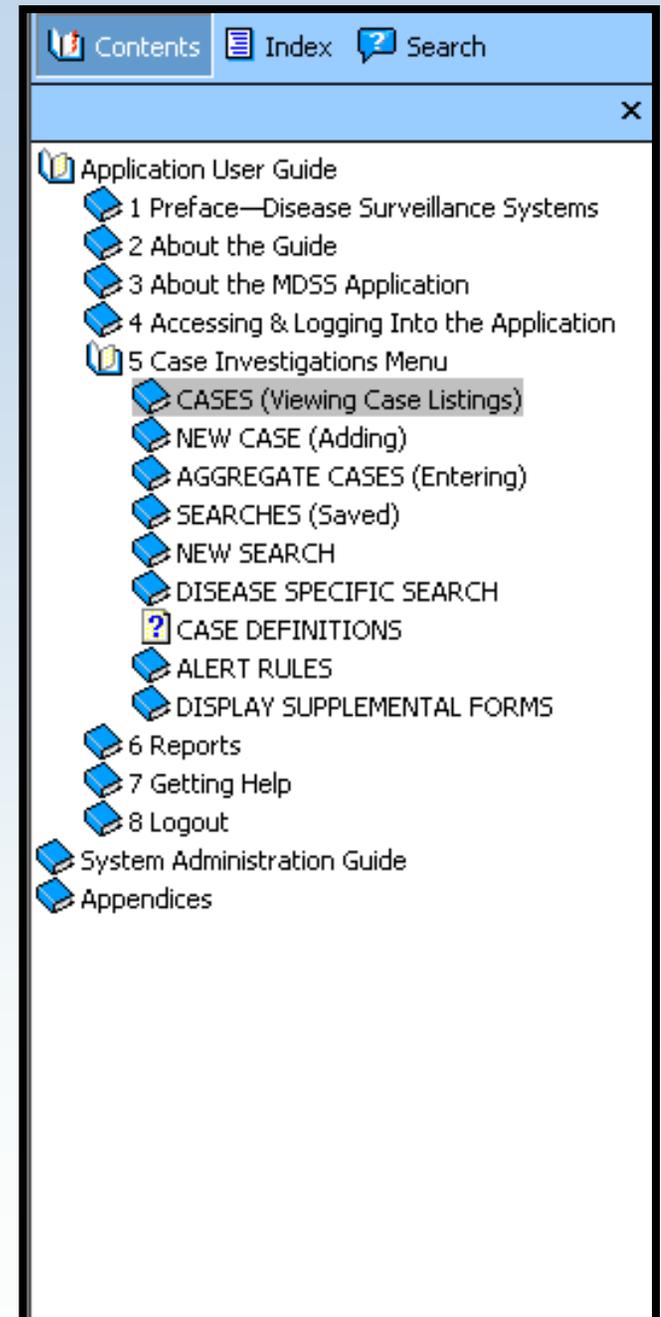
[8. Epi Curve](#)

[Aggregate Case
Report](#)

[GIS Map of
Diseases by
Geography](#)

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

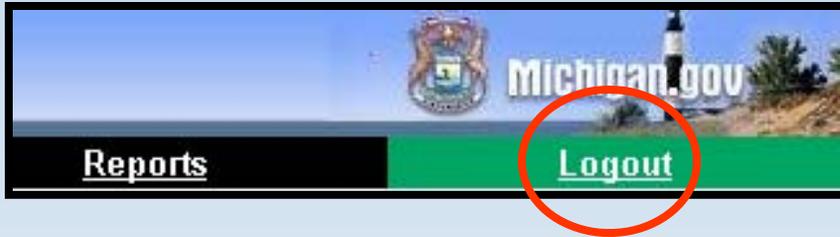
- Browser buttons (Back, Forward, Refresh, etc.) are not available for use in MDSS
- For security, MDSS and MILogin will automatically log you out if your session remains inactive for more than 30 minutes
 - Save your work frequently
 - You will lose unsaved work if you're automatically logged out
 -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

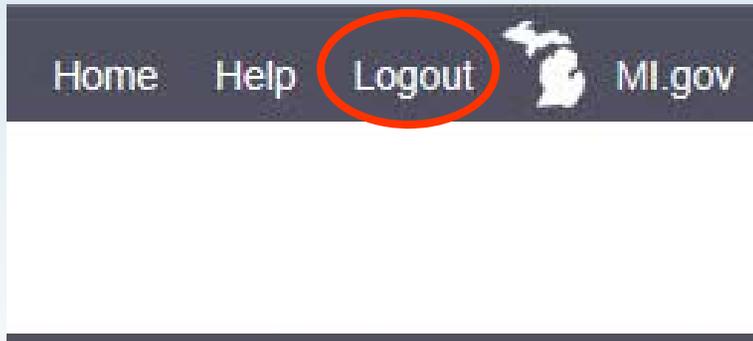


Logging Out



1) Click **Logout** in MDSS,

AND



2) Click **Logout** in the MILogin Portal

The Message Function

- This function allows MDHHS Administrators to create messages that are displayed for all users
- The Messages module will display all of the System Messages from the past several months
- The 'New Messages Waiting' link displayed on bottom of case listings page to indicate new messages have 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
[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [\[Next >>\]](#) [\[Last >\]](#)

Case Listings Referral Date Sort All Open Investigations Search Export Help
Include Labs in Export

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[New Message Waiting](#)

This link indicates that there is a new message waiting to be viewed in the Messages Screen. This link disappears once 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.

[Cancel](#) [Help](#)

Entering a New Case

New Case Entry

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

- 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

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

Investigation Information

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

State Prison Case

Patient Information

Patient Status*: - SELECT - Patient Status Date* (mm/dd/yyyy): 11/23/2016 

First*: Last*: Middle:

Street:

City: County: State: Zip:

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

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

Diagnosis Date (mm/dd/yyyy): 

*indicates required items

- Besides entering required fields, make sure **address** fields on this screen are also completed
- This allows case to be sent to the proper LHD

Validation

- Clicking **SAVE & FINISH** or **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 Patient Status 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*: - SELECT - **Patient Status Date* (mm/dd/yyyy):** 11/23/2016 

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

Street:

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

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 completed (Unknown is generally an option)
- **Case Status** – refers to the case definition criteria (Confirmed, Suspect, Not a Case, Probable, Unknown)
- **Patient Status** - indicates the present condition of the patient (Inpatient, Outpatient, Deceased)
- **Patient Status Date** - automatically set to current date during case entry and updated when a change is made to the “Patient Status.” Can also be entered directly
- **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">African AmericanAmerican Indian or Alaska NativeAsianCaucasianHawaiian 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** information is not supplied, the Date of Birth/Age Information Reminder Box will display when you continue to the next entry screen



- If that information is available, click the **CANCEL** button to return to the New Case Entry screen and enter the information
- If that 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 no Onset Date is available
- **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

Note: you must enter Parent/Guardian information if case is under age 18 years – if this information is not available, you may enter 'unknown'

New Case Entry – Screen Three

- Enter your information under the “Person Providing Referral” or you can enter it into the “User Profile” and have this be auto-populated each time you enter a new case
- Enter Primary Physician Information: Name and Phone Number at minimum
- Enter lab data by clicking the “Enter Lab Data” option

Referral received via Electronic Laboratory Reporting

Person Providing Referral

First : Last :

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

Primary Physician

First : Last :

Affiliation :

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

Street :

City : County : State : Zip :

Case Notes

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

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 Reports Create New Lab Report Help

Date Received	Ordered Test Name	Electronic
Save & Finish Back Cancel Help		

Lab Order Information

Filter Test List By: Filter Clear

Select Ordered Test* :
Chlamydia trachomatis+Neisseria gonorrhoeae rRNA [Presence] in Unspecified specimen by DNA probe

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

Lab Report Date (mm/dd/yyyy) :

Ordering Provider

First : Last :

Affiliation : Street :

City : County : State : Zip :

Phone number : Ext :

Laboratory Information

Select Lab* : MDCH - Lansing Bureau of Laboratories Filter Lab List By: Filter Clear

Lab Name* : MDCH - Lansing Bureau of Laboratories

Street : 3350 N Martin L King Jr Blvd Geocode Source :

City : Lansing County : State : Michigan Zip : 48909

Phone number : 517-335-8063

Specimen Information

Specimen Collection Date (mm/dd/yyyy) :

Specimen Source :

Specimen Site :

Specimen Site Text :

Specimen ID :

Results New Result

7. Add Lab Result info

8. Click **Add Result**

New Result

Filter Test List By:

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

Chlamydia trachomatis+Neisseria gonorrhoeae rRNA [Presence] in Unspecified specimen by DNA probe

Coded Result :
Filter Result List By:

Select Result: Chlamydia species

Chlamydia species

Text Result :

Numeric Result :

Comments :
8/14/2016 1g Zithromax

Relevant Clinical Information :
Also notified partner

9. Review Lab info

10. Click **Add New Lab**

Specimen Information

Specimen Collection Date (mm/dd/yyyy) : 

Specimen Source :

Specimen Site :

Specimen Site Text :

Specimen ID :

Results

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

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

11. Click **Save & Finish**

Lab Reports

Date Received	Ordered Test Name	Electronic		
08/18/2016	Chlamydia trachomatis+Neisseria gonorrhoeae rRNA [Presence] in Unspecified specimen by DNA probe	No	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Background Processing

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

- **Geocoding:** Validates address, assigns coordinates to map address, supports LHJ referral
- **De-Duplication:** The process of identifying and merging 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 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 - Geocode Source

The “Geocode Source” indicates how the address was mapped

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.



The screenshot displays the MDSS TEST APPLICATION interface for the Department of Community Health, Michigan.gov. The interface includes a navigation menu on the left with the following items: [Cases](#), [Unassigned Cases](#) (highlighted with a red circle), [New Cases](#), [Searches](#), [New Search](#), [Disease Specific Search](#), [Case Definitions](#), [Display Supplemental Forms](#), and [User Profile](#). The main content area is titled "Case Listings" and features a search bar with "Referral Date" selected, a "Sort" dropdown, and a "All Open Investigations" dropdown. Below the search bar is a table with the following columns: Investigation Status, Disease, Patient Name, Referral Date, Investigator, Jurisdiction, and an Edit button. The table contains 12 rows of case data.

Investigation Status	Disease	Patient Name	Referral Date	Investigator	Jurisdiction	
New	Botulism - Foodborne	MARCIA BRADY	03/02/2005	BULL, SHERRI	Kent County	Edit
New	Tetanus	GREG BRADY	03/02/2005	USER, SUPER	Kent County	Edit
New	Strep Pneumo, Drug Resistant	JAN BRADY	03/02/2005	HOFFMAN, TRAVIS	Kent County	Edit
New	H. influenzae Disease - Inv.	CINDY BRADY	03/02/2005	BULL, SHERRI	Kent County	Edit
New	Kawasaki	BOBBY BRADY	03/02/2005	USER, SUPER	Kent County	Edit
New	Legionellosis	PETER BRADY	03/02/2005	HOFFMAN, TRAVIS	Kent County	Edit
New	Rocky Mt Spotted Fever	MIKE BRADY	03/02/2005	BULL, SHERRI	Kent County	Edit
New	Brucellosis	CAROL BRADY	03/02/2005	USER, SUPER	Kent County	Edit
New	Syphilis - Congenital	TEST ING	03/25/2005	STAFF, STDPROG	Statewide	Edit
New	Cholera	TOM JONES	07/28/2005	BULL, SHERRI	Wayne County	Edit

- To access the list click on the Unassigned Cases button

Unassigned Cases Listing

The screenshot displays the MDSS TEST APPLICATION interface for the Department of Community Health. The page features a navigation menu on the left with the following items: Cases, **Unassigned Cases** (circled in red), New Cases, Searches, New Search, Disease Specific Search, Case Definitions, Display Supplemental Forms, and User Profile. The main content area is titled "Case Work Queue" and contains a table with the following data:

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

A red arrow points from the text below to the "Amebiasis" entry in the table.

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

Electronic Lab Reporting

- Some commercial and public health laboratories around the state are entering disease reports electronically into MDSS via ELR
- This type of 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 case is confirmed

ELR and the HCP

- If the laboratory enters the case before the HCP, the case will need de-duplication

THUS:

- If you are a HCP whose facility uses a lab that reports via ELR and you cannot see a case that you have entered, check the Unassigned Cases queue
- Once the LHD (or MDHHS) de-duplicates the case, the HCP will have access to it

More About ELR

- ELR utilizing laboratories are likely to report cases into the MDSS prior to an HCP
- If a case is to be merged during the case deduplication 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 deduplication is complete

CDC Case Definitions

[New Case](#)

[New Aggregate
Cases](#)

[Searches](#)

[New Search](#)

[New Aggregate
Search](#)

[Disease Specific
Search](#)

[Case Definitions](#)

[Alert Rules](#)

[Display](#)

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Forms](#)

[User Profile](#)

[User Directory](#)

- MDSS provides a link to the available CDC Case Definitions
- LHDs can use 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 Data Entry

- Provides way to enter aggregate case information
- Examples of Aggregate Data:
 - Influenza-Like Illness (ILI)
 - Gastrointestinal-Like Illness
 - Others: scabies, etc.
 - Among hospitalized: isolated, quarantined, new
- If you receive counts of 'flu like disease' etc after the MMWR Week cut-off, you can still enter data for the correct week
- 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

How to Enter Aggregate Cases

Case Investigation 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
Display Supplemental Forms
User Profile
User Directory

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

- Click on Left Column “New Aggregate Cases”
- Everything in red and asterisked is required
 - Reportable Condition
 - A number in “Cases”
 - Reporting Period (Weekly/Daily)
 - Case Status (leave “Confirmed”)

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

- Person Providing Referral:**
 - First: [text box]
 - Last: [text box]
 - Phone (### ### ####): [text box]
 - Ext: [text box]
 - Email: [text box]
- Source Information:**
 - County*: [dropdown menu]
 - Reporting Source*: [- SELECT -] [dropdown menu]
 - Source Description: [text box]
 - School District: [dropdown menu]
 - School Name: [dropdown menu]
 - School Closed:
 - Phone (### ### ####): [text box]
 - Ext: [text box]
 - Email: [text box]
 - Street: [text box]
 - City: [text box]
 - State: [dropdown menu]
 - Zip: [text box]
- Case Notes:** [large text area]

At the bottom of the form are four buttons: Continue, Back, Cancel, and Help.

- **Person Providing Referral:** Contact information for person entering the report into the MDSS. Will auto-fill with information from user profile, if completed
- **Case Notes:** Same notes field that is on all case reports. Stamped with time, date, and User ID

- **County (Required):** select the appropriate county
- **Reporting Source (Required):** Drop down field listing local public health, physician, hospital, etc.
- **Source Description:** Free text field to enter name of reporting source (i.e., LHD or Hospital name)
- **Address Information:** Complete address information for the reporting source. Will auto-fill address from Primary Physician information from the user profile if completed

Once all information is filled in, select "Continue" on the bottom of Screen Two

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): 50 Ill Adults: _____ Ill Children: _____
 Ill Residents /Patients/ Patrons: _____ Total Population: _____
 Ill Employees: _____ Total # Employed: _____
 Ill Food Handlers: _____ Secondary Cases: _____
 Hospitalized Cases: _____ Deaths: 0

Symptom Presentation

Symptom(s)	Symptom present	Number of Cases with Symptom	Total # of Cases with Information Available
Vomiting	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
Skin and soft tissue wound/damage	<input type="radio"/> Yes <input type="radio"/> No	_____	_____
Other:	<input type="radio"/> Yes <input type="radio"/> No	_____	_____

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**

- Third Screen of Aggregate Case Report Form
- Enter any additional information and click 'Save & Finish' at the bottom of the screen

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 certain fields that are repeated with each new case entry, such as referrer and primary physician
- Once entered and saved, these fields are automatically filled with each new case
- These fields are modifiable, in the event that changes are needed

The screenshot shows the MDSS TEST APPLICATION interface for the Department of Community Health. The page has a blue header with the MDCH logo and the Michigan state seal. Below the header, there are three tabs: "Case Investigation" (highlighted in green), "Reports", and "Logout". On the left side, there is a vertical navigation menu with the following items: "Cases", "Unassigned Cases", "New Case", "Searches", "New Search", "Disease Specific Search", "Case Definitions", "Display", "Supplemental Forms", and "User Profile" (which is highlighted in blue and circled in red). The main content area is titled "User Profile" and contains two sections: "Default Referrer Information" and "Default Primary Physician Information". Each section includes a descriptive paragraph and several input fields for "First", "Last", "Phone", "Ext.", "Email", and "Street".

MDSS TEST APPLICATION
Department of Community Health

Case Investigation Reports Logout

Cases
Unassigned Cases
New Case
Searches
New Search
Disease Specific Search
Case Definitions
Display
Supplemental Forms
User Profile

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 values.

First : Last :

Affiliation :

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

Street :

Auto-Completed Information

The User Profile

Person Providing Referral

First : Last :

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

Email :

Primary Physician

First : Last :

Affiliation :

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

Email :

Street :

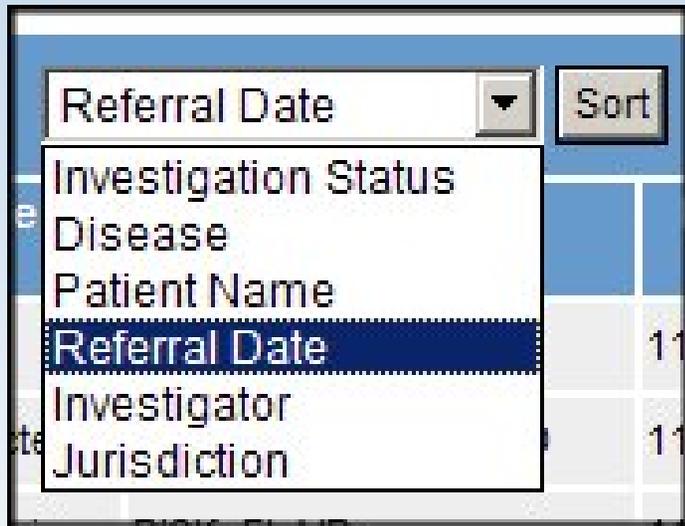
City : County : State : Zip :

Case Notes

- This is Page 3 of the New Case Entry Form
- All saved profile information is auto-populated

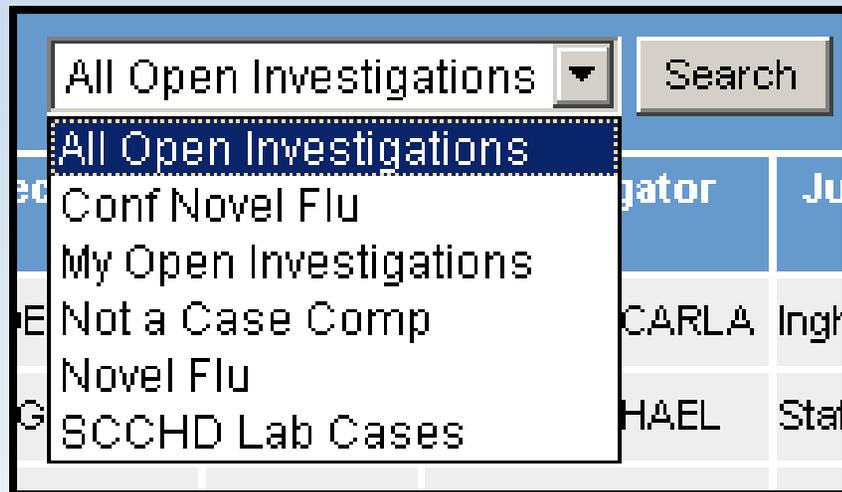
How to Work With Your Case

Case Listings - Sort Option



- The default display option for Case Listings is to show the cases in order of Referral Date
- To select a different Sort Order click the down arrow next to “Referral Date” and choose one of the options from the drop down list then click **SORT**
- Investigator and Patient Name are sorted on last name
- See the section *Cases* in *Chapter 5* of the User Guide or view Online Help for more details

Case Listings - Search Option



- The cases that appear on the Case Listings screen are initially based on the default search criteria and your jurisdiction, role and permissions
- When your User ID was created, the system automatically created some default searches for you
- When you change the Case Listings search option, the selected search becomes your assigned search for the duration of your session or until you select another search option

Accessing the Case Details

Displaying results **1-10** of **2091** found
[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [\[Next >>\]](#) [\[Last >\]](#)

Case Listings Referral Date Sort All Open Investigations Search Export Help

Investigation Status	Disease	Subject	Referral Date	Investigator	Jurisdiction	
Active	Salmonellosis	JOE SCHMOE	08/13/2004	MERRITT, CARLA	Ingham County	Edit
Active	Salmonellosis	FRANK WRIGHT	08/13/2004	GRIM, MICHAEL	Statewide	Edit
New	Cryptosporidiosis	DUKE EINSTEIN	08/13/2004	COLLINS, JIM	Detroit City	Edit
Active	Pertussis	GERALDO RIVERA	08/13/2004	CARLSON, BRAD	Ingham County	Edit
New	Streptococcal Dis, Inv, Grp A	FRANCIS COPPALLA	08/13/2004	CARLSON, BRAD	Ingham County	Edit
New	Syphilis - Primary	WILLIAM KELLOGG	08/13/2004	COLLINS, JIM	Calhoun County	Edit
Active	Hepatitis B, Chronic	GILDA RADNER	08/13/2004	CARLSON, BRAD	Detroit City	Edit
New	Salmonellosis	LISA SIMPSON	08/13/2004	LUTZKE, MARY	Kent County	Edit
New	Blastomycosis	BRAD CARLSON	08/13/2004	CARLSON, BRAD	Wayne County	Edit
New	Diphtheria	JASON BRITTON	08/13/2004	COLLINS, JIM	Detroit City	Edit

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

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

When you select a case, all cases associated with that patient will be unavailable by any user

Case Locking

- When a case is selected for editing or viewing, all cases linked to the associated patient are *locked* by the user accessing the record. This lock remains in effect until the user cancels, saves the changes, or otherwise navigates away from the record
- If the user's MDSS session terminates before the lock is released, the lock will be released automatically when the user's session times out
- For more information on session timeouts, refer to the section *Session Timeout* in the User Guide or view Online Help

Case Locking

- All of the screens within “Case Details” will indicate that the case is locked and by which user
- Only the user who has the case locked can edit it

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

Reportable Condition*: Streptococcal Dis, Inv, Grp A Case Status*: Confirmed Investigation Status*: New

Patient Information

Patient Status*: OutPatient Patient Status Date* (mm/dd/yyyy): 08/13/2004 

First*: FRANCIS Last*: COPPALLA Middle: FORD

Onset Date (mm/dd/yyyy): 06/11/2004  MMWR: 32-2004 Patient Id: 9132

Investigation Address

Street: 300 E MICHIGAN AVE Geocode Source: CGI

City: LANSING County: Ingham State: Michigan Zip: 48933

Jurisdiction: Ingham County

Investigation Information

Outbreak Y/N: Unknown Outbreak Name:

Referral Date (mm/dd/yyyy): 08/13/2004  Case Entry Date: 08/13/2004

Investigation ID: 9134 NETSS ID: 12 Assigned to: CARLSON, BRAD / Statewide

*indicates required items

Viewing a Locked Case

- While the lock is in effect, 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:	
<input type="checkbox"/>		
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

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

Reportable Condition*: Streptococcal Dis, Inv, Grp A Case Status*: Confirmed Investigation Status*: New

Patient Information

Patient Status*: OutPatient Patient Status Date* (mm/dd/yyyy): 08/13/2004

First*: FRANCIS Last*: COPPALLA Middle: FORD

Onset Date (mm/dd/yyyy): 06/11/2004 MMWR: 32-2004 Patient Id: 9132

Investigation Address

Street: 300 E MICHIGAN AVE Geocode Source: CGI

City: LANSING County: Ingham State: Michigan Zip: 48933

Jurisdiction: Ingham County

Investigation Information

Outbreak Y/N: Unknown Outbreak Name:

Referral Date (mm/dd/yyyy): 08/13/2004 Case Entry Date: 08/13/2004

Investigation ID: 9134 NETSS ID: 12 Assigned to: CARLSON, BRAD / Statewide

*indicates required items

- The first tab contains the basic information about the case
- From this screen, you can monitor the Investigation Status
- This is also where you can access the case detail form

Case Reporting

Key Field Definitions

- **Investigation Status** – refers to the stage of the investigation (Active, Canceled, Completed, Completed – Follow up, New, Review, Superseded)
 - Resolved cases should be marked “Confirmed” or “Not a Case” for Case Status and “Completed” for Investigation Status. (Some reportable conditions can be completed as “Probable” or “Suspect”)
 - If duplicate cases are entered, all but one should be marked “Superseded” for Investigation Status with one case investigated to resolution
 - 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. These forms are accessed through the Case Reporting tab
- These forms can be saved to MDSS and printed out at any time during the investigation
- 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

Disease Specific 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

Disease Specific Forms

To access the form click the details button on the case reporting tab

The screenshot shows a web application interface for disease reporting. The top navigation bar includes tabs for Case Reporting, Address History, Demographics, Referrer, Lab Reports, Notes, Map, Audit, and Person History. The main content area is titled "Patient SANDERS, COLONEL Locked by LAIJ (JOYCE LAI)".

The "Reportable Condition*" dropdown menu is set to "Chickenpox (Varicella)". A red circle highlights the "Detail" button next to this dropdown. Other dropdowns include "Case Status*" set to "Probable" and "Investigation Status*" set to "New".

The "Patient Information" section includes:

- Patient Status*: OutPatient
- Patient Status Date* (mm/dd/yyyy): 09/17/2004
- First*: COLONEL
- Last*: SANDERS
- Middle: (empty)
- Onset Date (mm/dd/yyyy): (empty)
- MMWR: 37-2004
- Patient Id: 93787
- Diagnosis Date (mm/dd/yyyy): (empty)
- Dedup button

The "Investigation Address" section includes:

- Street: 19185 MALLINA ST
- Geocode Source: CGI
- City: GROSSE POINTE
- County: Wayne
- State: Michigan
- Zip: 48236
- Jurisdiction: Wayne County

The "Investigation Information" section includes:

- Outbreak Y/N: Unknown
- Outbreak Name: (empty)
- Referral Date (mm/dd/yyyy): 09/17/2004
- Case Entry Date (mm/dd/yyyy): 09/17/2004
- Investigation ID: 93789
- NETSS ID: 82
- Assigned to: CARLSON, BRAD / Statewide
- Re-assign button

At the bottom, there is a note: "*indicates required items". Below the form are buttons for "Reset", "Submit Changes", "Cancel", and "Help".

Disease Specific Forms

<input type="button" value="Submit Changes"/> <input type="button" value="Cancel Changes"/> <input type="button" value="Print"/>					
<h2>Varicella (chickenpox)</h2> <p>Michigan Department of Community Health Communicable Disease Division</p>					
Investigation Information					
Investigation ID 93789	Onset Date <i>mm/dd/yyyy</i> <input type="text"/>	Diagnosis Date <i>mm/dd/yyyy</i> <input type="text"/>	Referral Date <i>mm/dd/yyyy</i> 09/17/2004	Case Entry Date <i>mm/dd/yyyy</i> 09/17/2004	Case Completion Date <i>mm/dd/yyyy</i> <input type="text"/>
Investigation Status NEW <input type="button" value="v"/>		Case Status <input type="radio"/> Confirmed <input type="radio"/> Not a Case <input checked="" type="radio"/> Probable <input type="radio"/> Suspect <input type="radio"/> Unknown			
Patient Status OUTPATIENT <input type="button" value="v"/>	Patient Status Date <i>mm/dd/yyyy</i> 09/17/2004	Part of an outbreak? UNKNOWN <input type="button" value="v"/>	Outbreak Name <input type="text"/>	Case Updated Date <i>mm/dd/yyyy</i> 09/17/2004	
Patient Information					
Patient ID 93787	First COLONEL	Last SANDERS	Middle <input type="text"/>		
Street Address 19185 MALLINA ST					
City GROSSE POINTE	County Wayne <input type="button" value="v"/>	State Michigan <input type="button" value="v"/>	Zip 48236		
Home Phone ### ### #### <input type="text"/>	Ext. <input type="text"/>	Other Phone ### ### #### <input type="text"/>	Ext. <input type="text"/>		

Working With Case Detail Forms

1. The Details button opens an HTML page of the detailed disease specific form. This retrieves the data from the database
2. You can add or edit data to form as required
3. Click the **SUBMIT CHANGES** button to save changes

Save changes frequently – this is key as your session may time out before you return to the MDSS
4. To print a copy of the form at an time in your progress, click the **PRINT** button in the upper right corner
5. 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 . . .

<input type="button" value="Submit Changes"/> <input type="button" value="Cancel Changes"/> <input type="button" value="Print"/>					
<h2>Gastrointestinal Illness Case Investigation</h2> <p>Salmonellosis Michigan Department of Community Health Communicable Disease Division</p>					
Investigation Information					
Investigation ID 7576893	Onset Date mm/dd/yyyy 08/24/2012	Diagnosis Date mm/dd/yyyy	Referral Date mm/dd/yyyy 03/21/2013	Case Entry Date mm/dd/yyyy 03/21/2013	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				
Patient Status INPATIENT	Patient Status Date mm/dd/yyyy 08/31/2012	Part of an outbreak? UNKNOWN	Outbreak Name	Case Updated Date mm/dd/yyyy 03/26/2013	
Patient Information					
Patient ID 7576890	First CLINTON	Last BARTON	Middle		
Street Address 1293 VALLEY AVE					
City DIXON	County	State Michigan	Zip		
Home Phone ### ### #### 000-123-9876	Ext.	Other Phone ### ### ####	Ext.		

Case Detail Form: Supplemental Information

as well as specific information only pertaining to the specific disease

For example:
 Clinical data
 Laboratory data
 Epidemiological data

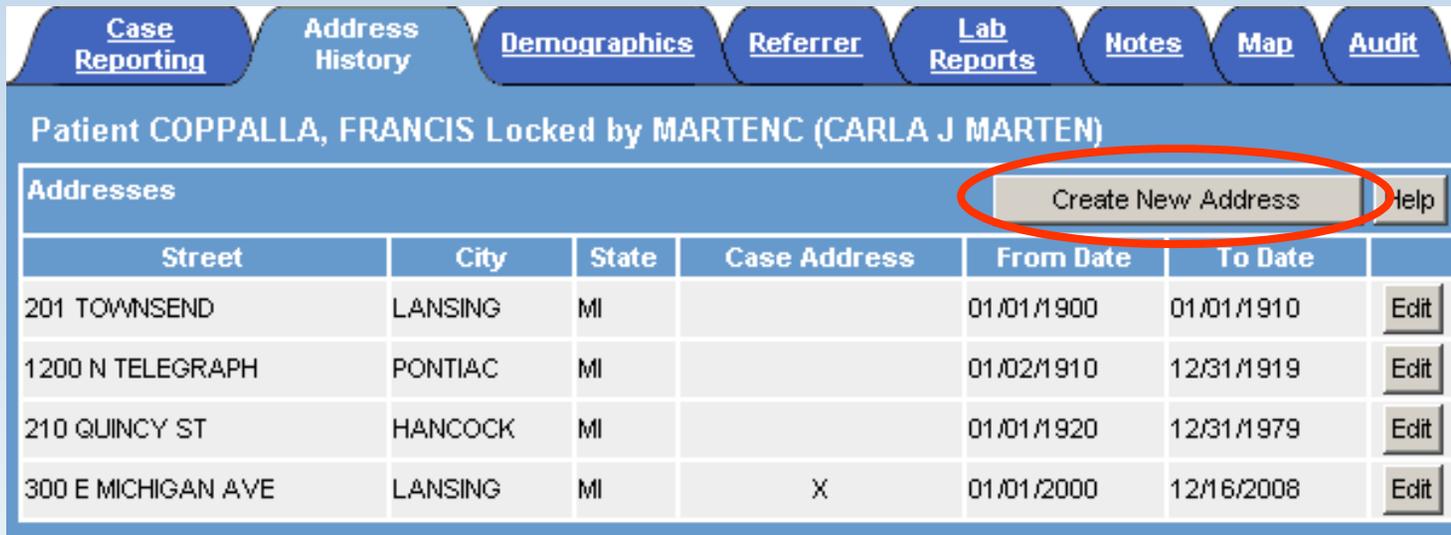
Hospital Information				
Patient Hospitalized <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown		Hospital <input type="text"/>	Hospital City <input type="text"/>	Hospital Record No. <input type="text"/>
Admission Date <i>mm/dd/yyyy</i> <input type="text"/>	Discharge Date <i>mm/dd/yyyy</i> <input type="text"/>	Days Hospitalized <input type="text"/>	Patient Died <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	
Clinical Information				
Date Recovered: <i>mm/dd/yyyy</i> <input type="text"/>	Symptoms (Check all that apply)			
	<input type="checkbox"/> No Symptoms	<input type="checkbox"/> Abdominal Pain	<input type="checkbox"/> Body Ache	<input type="checkbox"/> Diarrhea
	<input type="checkbox"/> Chills	<input type="checkbox"/> Fatigue	<input type="checkbox"/> Headache	<input type="checkbox"/> Diarrhea w/blood
			<input type="checkbox"/> Nausea	<input type="checkbox"/> Vomiting
Fever? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	If yes, specify highest fever: <input type="text"/>	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: <input type="text"/>
Laboratory Information				
Specimen Collected	Collection Date	Test Result	Test Name	Laboratory Name
()	(<i>mm/dd/yyyy</i>)	()	()	()
Blood	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Stool	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Urine	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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"/> I 4,[5],12:i-	<input type="radio"/> Poona	<input type="radio"/> Other, specify: <input type="text"/>	
<input type="radio"/> Unknown				

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)							
Addresses						Create New Address	Help
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	

Adding a New Address



The screenshot shows a patient record for FRANCIS COPPALLA, locked by MARTENC (CARLA J MARTEN). The interface includes several tabs: Case Reporting, Address History, Demographics, Referrer, Lab Reports, Notes, Map, and Audit. The 'Address History' tab is active, displaying a table of addresses. A 'Create New Address' button is highlighted with a red circle, and a 'Help' button is also visible. The table lists four addresses with their respective 'From Date' and 'To Date' fields.

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

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

The screenshot shows a software interface for adding a new address for a patient. At the top, there are several tabs: Case Reporting, Address History, Demographics, Referrer, Lab Reports, Notes, Map, and Audit. The patient's name is displayed as 'Patient COPPALLA, FRANCIS Locked by MARTENC (CARLA J MARTEN)'. Below this, there is a section titled 'Address Information' with input fields for Street, City, County, State, and Zip. Below that is a section titled 'Address Timeframe' with a label 'Valid Dates for the Address (mm/dd/yyyy):' and two date pickers labeled 'from' and 'to'. At the bottom, there are three buttons: 'Create Address', 'Cancel', and 'Help'.

IMPORTANT

If multiple addresses exist for the patient, use the “Valid From” and “Valid To” date fields to supply the dates when these addresses were the patient’s primary address

Demographics and Referrer Screens

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

Patient SQUIRREL, ROCKY Locked by REIMINKB (BETHANY G REIMINK)

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

Sex*: Male

Hispanic Ethnicity*: Not Hispanic or Latino

Arab Ethnicity: Unknown

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

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

Date of Birth / Age

Date of Birth (mm/dd/yyyy): 05/18/1966 Age at Onset (if DOB unknown): 37 Age Unit: Years

Parent/Guardian (required if under 18)

First: Last: Middle:

Work / Occupation or School / Grade

Worksites / School: COPILOT WITH MOOSE

Occupations / Grade:

Patient Identifiers

MDOC ID:

**indicates required items*

Reset Submit Changes Cancel Help

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

Patient SQUIRREL, ROCKY Locked by REIMINKB (BETHANY G REIMINK)

Referral received via Electronic Laboratory Reporting

Person Providing Referral

First: Last:

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

Primary Physician

First: Last:

Affiliation:

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

Street: Geocode Source:

City: County: State: Zip:

Reset Submit Changes Cancel Help

Lab Reports

- Laboratory tests can be entered into MDSS three ways:
 - Manually upon case entry, on the 3rd screen
 - Manually using the “Lab Reports” screen after it is already in the system
 - Electronically via *Electronic Laboratory Reports*.
- 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
- MDHHS Bureau of Laboratories and several commercial or public health laboratories are using electronic reporting

Lab Reports Screen

The screenshot shows a web application interface for Lab Reports. At the top, there are navigation tabs: Case Reporting, Address History, Demographics, Referrer, Lab Reports (selected), Notes, Map, and Audit. Below the tabs, a blue banner indicates the screen is 'Locked by SUPERUSER (SUPER USER)'. Underneath, there is a 'Lab Reports' section with a 'Create New Lab Report' button and a 'Help' link. A table displays a list of lab reports with columns for Date Received, Ordered Test Name, and Electronic. An 'Edit' button is visible next to the first entry.

Date Received	Ordered Test Name	Electronic	
05/18/2004	NEISSERIA - REFERRED	Yes	Edit

- Click **CREATE NEW LAB REPORT** button to add a lab report
- Click **EDIT** to view or edit an existing lab report
- “Electronic” value of “Yes” means it was received by automated referral. Electronic lab reports cannot be modified
- Click **EDIT** to view an Electronic Laboratory Report

Electronic Lab Report Example

Lab Order Information			
Test Name* :	PCR NOROVIRUS		
Lab Report Date (mm/dd/yyyy) :	12/15/2004		
Laboratory Information			
Name* :	MDCH REGIONAL LAB - LANSING		
Street :	3350 N MARTIN LUTHER KINGJR BLVD PO BOX 30035		Geocode Source : MDSS Zip Code
City :	County :	State :	Zip :
LANSING	Ingham	Michigan	48909
Specimen Information			
Specimen Collection Date (mm/dd/yyyy) :	12/12/2004		
Specimen Source :	Stool = Fecal		
Specimen Site :			
Specimen ID :	M04NV000161		
Results			
Reported Test Name : PCR Comments			
Coded Result :	Norwalk-like now Norovirus		
Reported Test Name : PCR Type			
Coded Result :	RT-MULTIPLEX PCR		
Reported Test Name : PCR Comments			
Coded Result :	Norovirus PCR results are to be used for research only!		
Reported Test Name : PCR Comments			
Coded Result :	Not FDA approved.		
Reported Test Name : PCR Result			
Coded Result :	Norovirus RNA DETECTED		
<input type="button" value="Reset"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>			

Notes Screen

- The Notes screen works like nursing notes – saved notes cannot be changed so a new note must be added to update information
- Each note is time and date stamped with the entering person's User ID
- Electronic/scanned documents can be attached to each case using the “Attach New Document” function – similar to an email attachment

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

Attach New Document

Date	Name	Description

Cancel Help

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

- Whenever any changes are made to a case MDSS time and date stamps the audit trail with the UserID, and name of the individual who made the change. At this time specific changes are not tracked, just user information

User Directory

User Directory

Help

Userid

Name

Jurisdiction

Email

Phone

Active

[Cases](#)

[New Case](#)

[New Aggregate
Cases](#)

[Searches](#)

[New Search](#)

[New Aggregate
Search](#)

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Search](#)

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[User Directory](#)

- A user directory is available
- To access it see the link at the bottom of the left side navigation bar under the Case Investigations tab
- It will provide the each user's UserID, Name, Jurisdiction, e-mail, phone number and their status
- It can be used in conjunction with the audit trail to contact individuals who have edited a particular case

MDSS Searches

or

“Where did my case go?”

New Searches

- The *New Search* function allows one to create a new search
- There are two levels of search options, basic and advanced



[New Case](#)
[New Aggregate Cases](#)
[Searches](#)
[New Search](#)
[New Aggregate Search](#)
[Disease Specific Search](#)
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Basic Searches

Pressing the *New Search* function, opens "Basic Search" screen

Basic Searches allow the user to search by:

Name

Investigator

Disease or Disease

Group

Dates

Geographic or Political

Region

The screenshot shows the 'Basic Search' interface with the following fields and sections:

- Name of Saved Search:** Text input field.
- Default Search:** Checkmark.
- Investigation ID:** Text input field.
- Case Status:** Dropdown menu with options: Confirmed, Not a Case.
- Investigation Status:** Dropdown menu with options: Active, Canceled.
- Patient First Name:** Text input field.
- Patient Last Name:** Text input field.
- Investigator First Name:** Text input field.
- Investigator Last Name:** Text input field.
- Investigator Userid:** Text input field.
- Reportable Condition:** Dropdown menu with options: Amebiasis, Animal Bite, Anthrax, Blastomycosis.
- Disease Group:** Dropdown menu with options: Rabies, VPD, Tuberculosis, Meningitis.
- Outbreak:** Text input field.
- Date Criteria:**
 - Onset Date (mm/dd/yyyy):** Two date pickers with 'to' separator.
 - Referral Date (mm/dd/yyyy):** Two date pickers with 'to' separator.
 - Entry Date (mm/dd/yyyy):** Two date pickers with 'to' separator.
 - Birth Date (mm/dd/yyyy):** Two date pickers with 'to' separator.
 - MMWR Week (ww-yyyy):** Two text input fields with 'to' separator.
- Geographic Criteria:**
 - Local Health Jurisdiction:** Dropdown menu with options: Allegan County, Barry-Eaton, Bay County, Benzie-Leelanau.
 - County:** Dropdown menu with options: Alcona, Alger, Allegan, Alpena.
 - Region:** Dropdown menu with options: 1, 2 North, 2 South, 3.
 - Facility:** Dropdown menu with options: ALLEGAN GENERAL HOSP, ALPENA GENERAL HOSP, ASPIRUS KEWEENAW HOSP, ASPIRUS ONTONAGON HOSP.
- Buttons:** Search, Save & Finish, Advanced, Cancel, Help.

Accessing Advanced Search Options

Click on the Advanced button along the bottom of the screen

The screenshot shows a search interface with the following sections:

- Name of Saved Search:** A text input field.
- Default Search:** A checkbox.
- Investigation ID:** A text input field.
- Case Status:** A dropdown menu with options: Confirmed, Not a Case.
- Investigation Status:** A dropdown menu with options: Active, Canceled.
- Patient First Name:** A text input field.
- Patient Last Name:** 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: Amebiasis, Animal Bite, Anthrax, Blastomycosis.
- Disease Group:** A dropdown menu with options: Rabies, VPD, Tuberculosis, Meningitis.
- Outbreak:** 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:**
 - 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, ASPIRUS KEWEENAW HOSP, ASPIRUS ONTONAGON HOSP.
- Bottom Navigation Bar:** Buttons for Search, Save & Finish, Advanced (circled in red), Cancel, and Help.

Additional Options With Advanced Searches

Search
By Demographics

Search
By Physician or
Reporting Lab

Search
By Geography

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

- Name of Saved Search:** A text input field with a "Default Search" button.
- NETSS ID:** A text input field.
- Age:** Two text input fields for "to" and "from" values.
- Age Unit:** A dropdown menu with "Days" and "Months" options.
- Zip:** A text input field.
- Include Aggregates:** A checkbox.
- City:** A text input field.
- Sex:** A dropdown menu with "Female" and "Male" options.
- Race:** A dropdown menu with "African American" and "American Indian or Alaska Native" options.
- Ethnic Group:** A dropdown menu with "Hispanic or Latino" and "Not Hispanic or Latino" options.
- Arab Ethnic Group:** A dropdown menu with "Arab" and "Non-Arab" options.
- Investigation Closure Date (mm/dd/yyyy):** Two date pickers with "to" and "from" labels.
- Case Update Date (mm/dd/yyyy):** Two date pickers with "to" and "from" labels.
- Outcome:** A dropdown menu with "Died" and "Survived" options.
- Hospitalized:** A dropdown menu with "Yes" and "No" options.
- Travel History:** A text input field.
- Specimen ID:** A text input field.
- Electronic Laboratory Results:** A section with 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:** A section with four text input fields: "Affiliation:", "Laboratory Name:", "Physician First Name:", and "Physician Last Name:".
- Michigan Department Of Correction:** A section with a "MDOC ID:" text input field and three radio buttons: "Exclude MDOC cases", "Include MDOC cases", and "Only MDOC cases".
- Geographic Criteria:** A section with a "Geographic Extent:" label, a map icon, and two sets of "x:" and "y:" text input fields with "to" labels between them.
- Buttons:** "Search", "Save & Finish", "Basic", "Cancel", and "Help" buttons at the bottom.

Advanced Search - Key Field Definitions

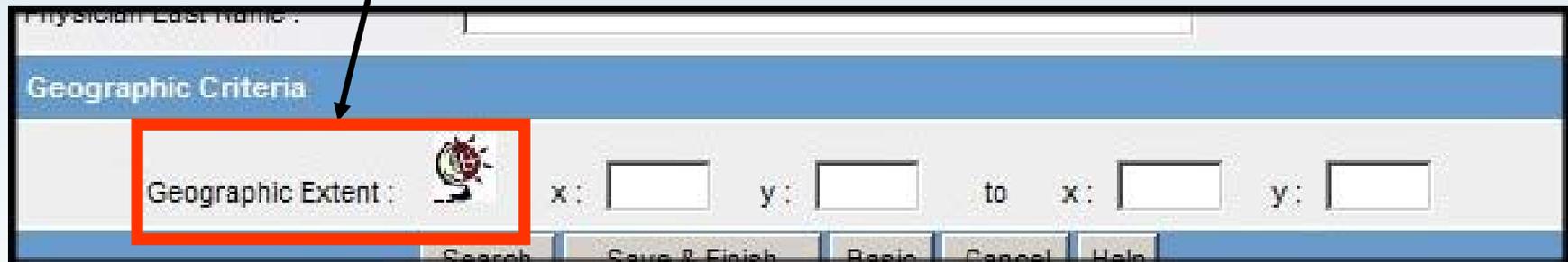
- **Age and Age Unit:** “Age” provides a numeric range search, while “Age Unit” works in conjunction with the “Age” field to determine the correct measurement for the age provided. The patient’s reported age is not converted to “days,” “months,” or “years” during the comparison
- **Zip:** Searches against the “Investigation Address.” The “Zip” search allows single, multiple, and range selection
- **City:** Searches against the “Investigation Address.” The “City” search allows single, multiple and wildcard (*) selection
- **Investigation Closure Date:** Searches against the system generated value of “Investigation Closure Date.” This search automatically limits the results to “closed” cases

Advanced Search – Key Field Definitions (Cont.)

- **Include Aggregate:** Determines whether the search will include only individual case reports or both individually reported cases and aggregate reports
- **Outcome, Hospitalized, and Hospital Name:** Compares against the values entered in the appropriate field (“Patient Died,” “Patient Hospitalized,” or “Hospital”) on the Disease Specific 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. The default option is to include both ELRs 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 you to search for cases within a geographic boundary using the GIS Map to select the coordinates



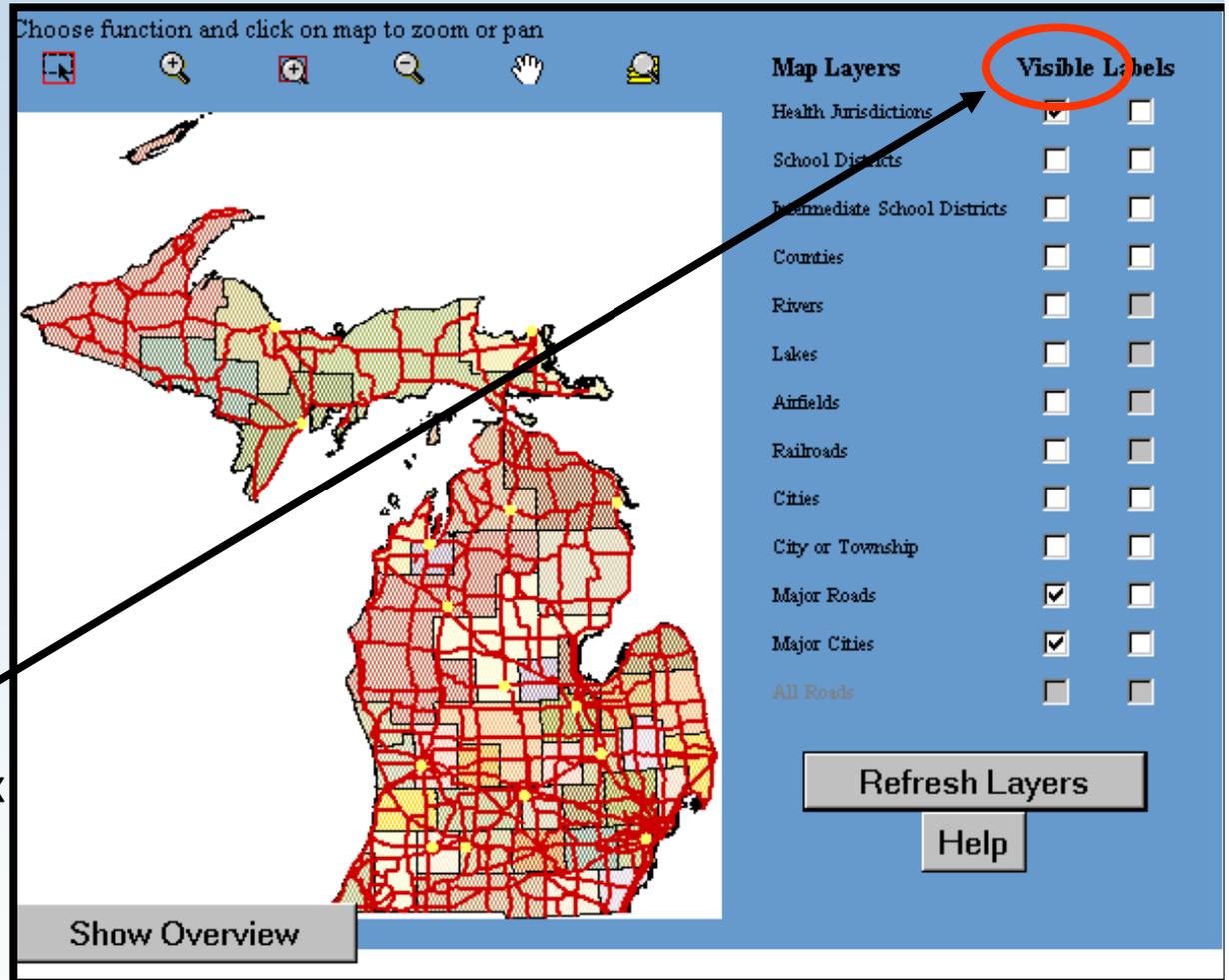
The screenshot shows a software interface for searching cases. At the top, there is a text input field labeled "Physician Last Name:". Below this is a blue header bar with the text "Geographic Criteria". Underneath the header bar, the "Geographic Extent" option is highlighted with a red rectangular box. To the right of the "Geographic Extent" text is a small globe icon. Further right, there are four input fields for coordinates: "x:", "y:", "to", "x:", and "y:". At the bottom of the interface, there are several buttons: "Search", "Save & Finish", "Basic", "Cancel", and "Help". A black arrow points from the text above to the "Geographic Extent" icon.

Using the Geographic Search

1. Click the **Geographic Extent** icon located at the bottom of the Advanced Search screen 

2. The “Map Search” screen opens in a new window

3. You can include additional map data to better visualize your selection area by checking the **Visible** checkbox and click the **Refresh Layers** button



Choose function and click on map to zoom or pan

Map Layers	Visible	Labels
Health Jurisdictions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
School Districts	<input type="checkbox"/>	<input type="checkbox"/>
Intermediate School Districts	<input type="checkbox"/>	<input type="checkbox"/>
Counties	<input type="checkbox"/>	<input type="checkbox"/>
Rivers	<input type="checkbox"/>	<input type="checkbox"/>
Lakes	<input type="checkbox"/>	<input type="checkbox"/>
Airfields	<input type="checkbox"/>	<input type="checkbox"/>
Railroads	<input type="checkbox"/>	<input type="checkbox"/>
Cities	<input type="checkbox"/>	<input type="checkbox"/>
City or Township	<input type="checkbox"/>	<input type="checkbox"/>
Major Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Major Cities	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Roads	<input type="checkbox"/>	<input type="checkbox"/>

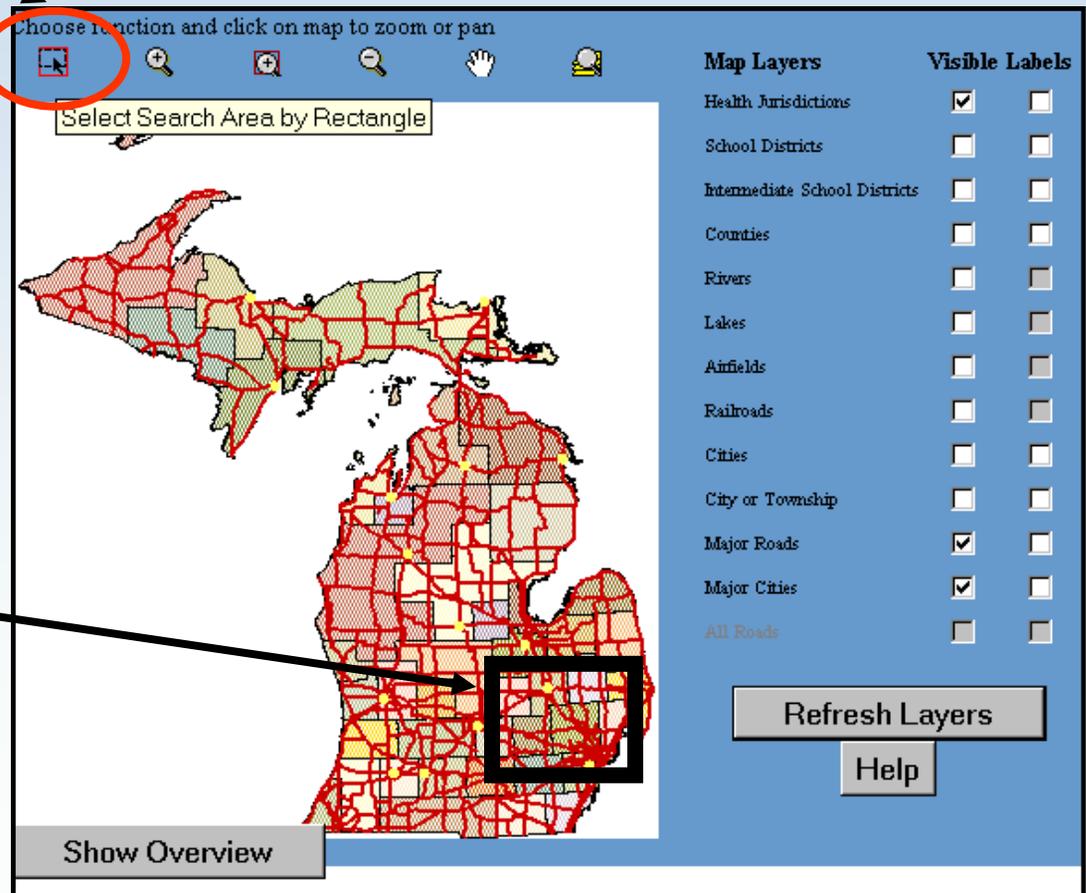
Refresh Layers

Help

Show Overview

Selecting the Geographic Boundaries

4. Click the **Select Search Area by Rectangle** icon. This icon is located at the top, left of the map screen
5. Within the map, point the mouse cursor to the top, leftmost corner of the desired zoom area
6. While continuing to hold down the left mouse key, drag the selection area to the bottom, rightmost corner of the desired search area and release your left mouse key

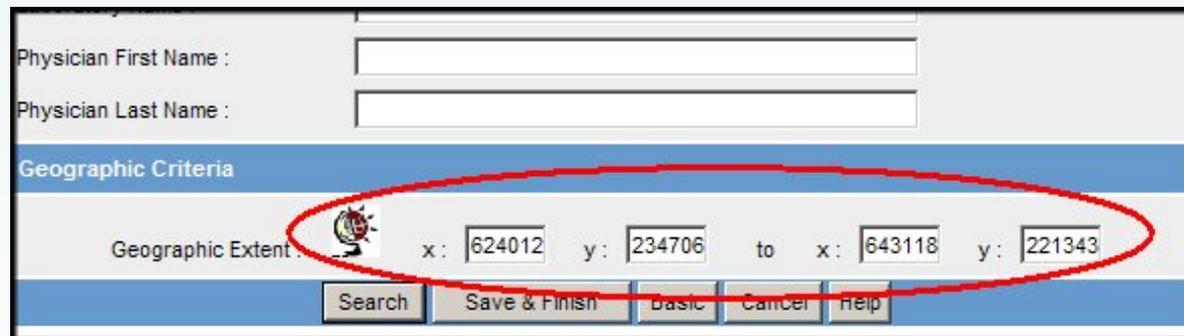


Returning the Coordinates

7. A confirmation screen opens to verify your search area selection.



- If you click **CANCEL**, you will return to the “Map Search” screen to reselect your search area.
- If you click **OK**, you will return to the Advanced Search screen and the beginning and ending “X” and “Y” coordinates will be placed within the coordinate search fields.

A screenshot of a software interface for an advanced search. At the top, there are two input fields for "Physician First Name" and "Physician Last Name". Below these is a blue header bar with the text "Geographic Criteria". Underneath the header bar, the text "Geographic Extent" is followed by a globe icon and a series of input fields: "x: 624012", "y: 234706", "to", "x: 643118", and "y: 221343". A red oval highlights the globe icon and the coordinate input fields. At the bottom of the screen, there is a row of buttons: "Search", "Save & Finish", "Basic", "Cancel", and "Help".

Saving & Creating a Default Search

1. In order to save a search for future use enter a name in **Name of Saved Search** box
2. Select all criteria
3. Click on **Save & Finish** to save
4. In order to make a search your default search Check the **Default Search** box prior to saving

The screenshot shows a software interface for saving and creating a default search. The interface is divided into several sections:

- Name of Saved Search:** A text input field with a "Default Search" checkbox to its right.
- Investigation ID:** A text input field.
- Case Status:** A dropdown menu with options "Confirmed" and "Not a Case".
- Investigation Status:** A dropdown menu with options "Active" and "Cancelled".
- Patient First Name:** A text input field.
- Patient Last Name:** 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 "Amebiasis", "Animal Bite", "Anthrax", and "Blastomycosis".
- Disease Group:** A list box containing "Rabies", "VPD", "Tuberculosis", and "Meningitis".
- Outbreak:** 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:**
 - 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 "Alpena".
 - Region:** A list box containing "1", "2 North", "2 South", and "3".
 - Facility:** A list box containing "ALLEGAN GENERAL HOSP", "ALPENA GENERAL HOSP", "ASPIRUS KEWEENAW HOSP", and "ASPIRUS ONTONAGON HOSP".

At the bottom of the interface, there are five buttons: "Search", "Save & Finish", "Advanced", "Cancel", and "Help". A black arrow points from the "Default Search" checkbox to the "Save & Finish" button.

Notes on Searching

- The user will only be able to view cases assigned to their jurisdiction
- **Wild Card** searches allow the user to perform searches when the complete term is not known
 - This type of search uses an 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” . . . that is the search becomes more restrictive (Male and 2-6 YOA and Salmonella)
- Each selection within a variable operates like an “or” . . . that is less restrictive (Detroit or Jackson or Alpena)
- Try to limit the size of searches as extracting extremely large datasets is very time consuming and taxes 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

Selecting and De-selecting Multiple Options

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

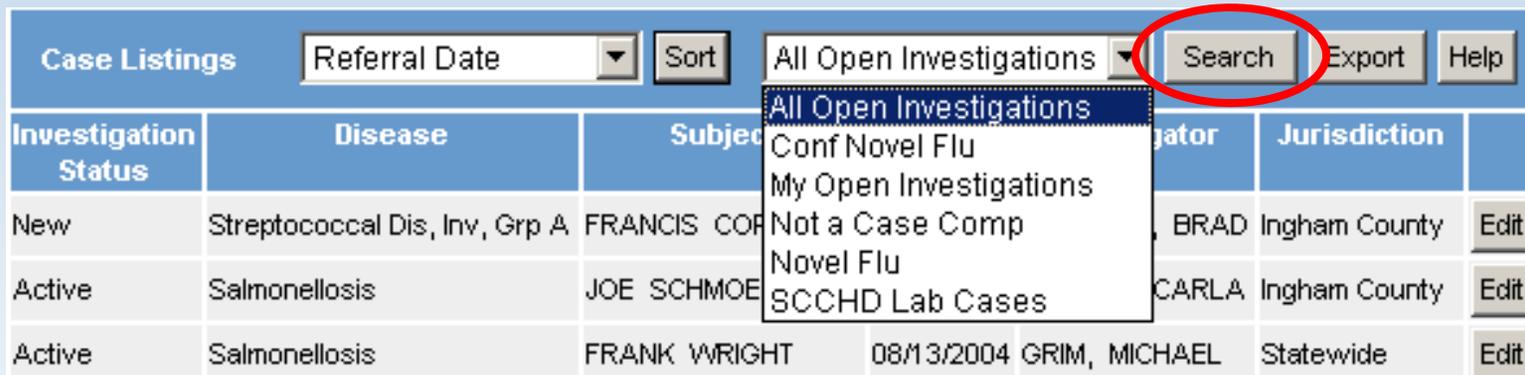
1. Move the mouse cursor to option you want to de-select and hold down the **CTRL key** while clicking the left mouse button



Executing a Saved Search

There are two ways to execute a saved search:

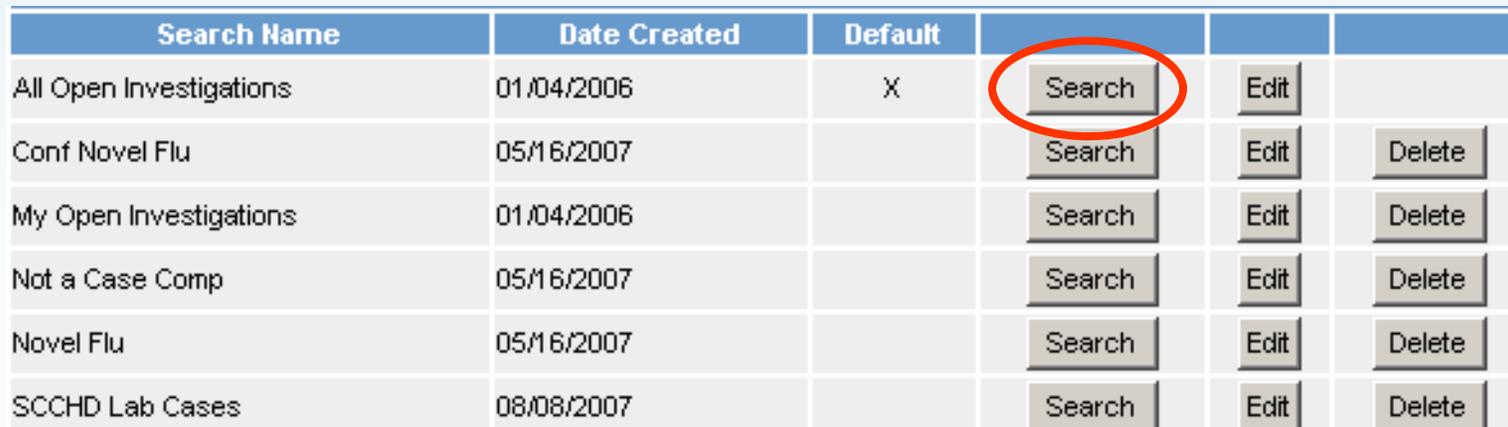
From your case listings



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", "Jurisdiction", and "Edit". The table contains three rows of data. A dropdown menu is open over the "Subject" column, 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	Edit
New	Streptococcal Dis, Inv, Grp A	FRANCIS CO	BRAD	Ingham County	Edit
Active	Salmonellosis	JOE SCHMOE	CARLA	Ingham County	Edit
Active	Salmonellosis	FRANK WRIGHT	08/13/2004 GRIM, MICHAEL	Statewide	Edit

From your saved searches



The screenshot shows a table of saved searches. The table has columns: "Search Name", "Date Created", "Default", "Search", "Edit", and "Delete". The "Search" column contains a "Search" button for each row, which is circled in red in the first row. The "Default" column contains an "X" for the first row and is empty for the others.

Search Name	Date Created	Default	Search	Edit	Delete
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. However, the search criteria are NOT saved
- To save criteria, click the **SAVE & FINISH** button and execute search from your saved searches or the case listings

Name of Saved Search Default Search

Investigation ID : Case Status : Confirmed / Not a Case Investigation Status : Active / Canceled

Patient First Name : Patient Last Name :

Investigator First Name : Investigator Last Name : Investigator Userid :

Reportable Condition : Amebiasis / Animal Bite / Anthrax / Blastomycosis Disease Group : Rabies / VPD / Tuberculosis / Meningitis Outbreak :

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

Local Health Jurisdiction : Allegan County / Barry-Eaton / Bay County / Benzie-Leelanau County : Alcona / Alger / Allegan / Alpena Region : 1 / 2 North / 2 South / 3 Facility : ALLEGAN GENERAL HOSP / ALPENA GENERAL HOSP / ASPIRUS KEWEENAW HOSP / ASPIRUS ONTONAGON HOSP

Search Save & Finish Advanced Cancel Help

Editing and Deleting Searches

The Saved Searches function provides access to your saved searches to order to execute, edit, or delete them

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

- 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](#)

[Case Definitions](#)

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- 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, i.e. the data on the disease specific form

Disease Specific Search

STEC Case Investigation Search

Michigan Department of Community Health
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				
Patient Status	Patient Status Date <i>mm/dd/yyyy</i> to	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.	Other Phone <i>### ### ####</i>	Ext.

Parent/Guardian (required if under 18)

- The **Disease Specific Search** forms look like the communicable disease forms used in a case investigation
- This form has been adapted to accommodate ranges and wildcards

Performing a Disease Specific Search

- Click the **Disease Specific Search** link on side bar
- Select the reportable condition
- Click the **SELECT** button and the Disease Specific Search form will open

Administration System Administration

Disease Specific Search

Reportable Condition :

Shiga toxin-producing Escherichia coli --(STEC) ▼

Select Help

NOTE: You may only search one reportable condition at a time

Case Detail Form

POSSIBLE SEARCH CRITERIA:

Person

Place

Time

Symptoms

Labs

Treatment

Risk Factors

Vaccine History

STEC Case Investigation Search

Michigan Department of Community Health
Communicable Disease Division

Investigation Information

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

Patient Information

Patient ID	First <input type="text"/>	Last <input type="text"/>	Middle <input type="text"/>
Street Address <input type="text"/>			
City <input type="text"/>	County <input type="text"/>	State <input type="text"/>	Zip <input type="text"/>
Home Phone <i>### ### ####</i> <input type="text"/>	Ext. <input type="text"/> to <input type="text"/>	Other Phone <i>### ### ####</i> <input type="text"/>	Ext. <input type="text"/> to <input type="text"/>

Parent/Guardian (required if under 18)

Case Detail Search Criteria

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

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

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

The screenshot shows a search criteria form with several sections. A red arrow points from the top text box to the 'Person Providing Referral' section. Another red arrow points from the middle text box to the 'First' field of the 'Primary Physician' section. A third red arrow points from the bottom text box to the 'First' field of the 'Primary Physician' section.

Person Providing Referral		
First	Last	Phone
<input type="text"/>	<input type="text" value="Smith-Patel"/>	<input type="text" value="###-###-####"/>

Primary Physician		
First	Last	Phone
<input type="text" value="La*"/>	<input type="text"/>	<input type="text" value="###-###-####"/>

Street Address		
<input type="text"/>		

City	County	Sta
<input type="text"/>	<input type="text"/>	<input type="text"/>

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 interface titled "Demographics". It contains two search criteria: "Date of Birth" and "Age". The "Date of Birth" field is labeled "mm/dd/yyyy" and contains the text "06/01/1955" followed by "to" and "06/01/1965". The "Age" field contains the text "50" followed by "to" and "60". Blue arrows point from the top text box to the beginning of the date and age input fields. Red arrows point from the bottom text box to the end of the date and age input fields.

Demographics	
Date of Birth <i>mm/dd/yyyy</i> 06/01/1955 to 06/01/1965	Age 50 to 60

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 criteria form with the following fields and annotations:

- Case Status:** A row of checkboxes with labels: Confirmed, Not a Case, Probable, Suspect, and Unknown. Red arrows point from the top text box to each of these checkboxes. The 'Probable' checkbox is highlighted with a dashed border.
- Part of an outbreak?:** A dropdown menu.
- Outbreak Name:** A text input field. A red arrow points from the bottom-left text box to this field.
- Case Updated Date:** A date range selector with the format *mm/dd/yyyy* and a 'to' label.

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. The second box is labeled 'State' and has 'Michigan' selected, indicated by a blue background. Red arrows point from the text boxes to these elements.

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, don’t place selection criteria in these fields; you can export and view the data in a spreadsheet

Disease Specific Search Results

When you are finished supplying the search criteria, click **SUBMIT QUERY**



Submit Query Cancel

STE C Case Investigation Search

Michigan Department of Community Health

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

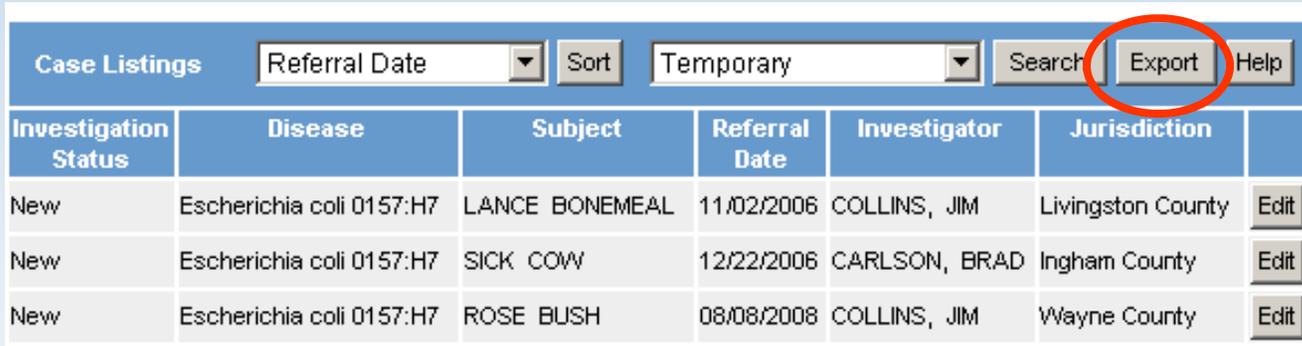
Investigation Status	Disease	Subject	Referral Date	Investigator	Jurisdiction	
New	Escherichia coli 0157:H7	LANCE BONEMEAL	11/02/2006	COLLINS, JIM	Livingston County	Edit
New	Escherichia coli 0157:H7	SICK COW	12/22/2006	CARLSON, BRAD	Ingham County	Edit
New	Escherichia coli 0157:H7	ROSE BUSH	08/08/2008	COLLINS, JIM	Wayne County	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



The screenshot shows a web interface for 'Case Listings'. At the top, there is a navigation bar with the text 'Case Listings' on the left. To its right are several controls: a dropdown menu set to 'Referral Date', a 'Sort' button, another dropdown menu set to 'Temporary', a 'Search' button, an 'Export' button (which is circled in red), and a 'Help' button. Below this navigation bar is a table with the following columns: 'Investigation Status', 'Disease', 'Subject', 'Referral Date', 'Investigator', 'Jurisdiction', and an 'Edit' button for each row. The table contains three rows of data.

Investigation Status	Disease	Subject	Referral Date	Investigator	Jurisdiction	Edit
New	Escherichia coli 0157:H7	LANCE BONEMEAL	11/02/2006	COLLINS, JIM	Livingston County	Edit
New	Escherichia coli 0157:H7	SICK COW	12/22/2006	CARLSON, BRAD	Ingham County	Edit
New	Escherichia coli 0157:H7	ROSE BUSH	08/08/2008	COLLINS, JIM	Wayne County	Edit

2. The Disease Specific Export form appears

Selecting the Fields to Export

3. Either click the **SELECT ALL** button located at the top of the export form or click the appropriate 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 Community Health
Communicable Disease Division

Investigation Information

Investigation ID	Onset Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as <input style="width: 80%;" type="text"/>	Diagnosis Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as <input style="width: 80%;" type="text"/>	Referral Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as <input style="width: 80%;" type="text"/>	Case Entry Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as <input style="width: 80%;" type="text"/>	Case Completion Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as <input style="width: 80%;" type="text"/>
Investigation Status <input type="checkbox"/> export as <input style="width: 100%;" type="text"/>			Case Status <input type="checkbox"/> export as <input style="width: 100%;" type="text"/>		
Patient Status <input type="checkbox"/> export as <input style="width: 100%;" type="text"/>	Patient Status Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as <input style="width: 80%;" type="text"/>	Part of an outbreak? <input type="checkbox"/> export as <input style="width: 80%;" type="text"/>	Outbreak Name <input type="checkbox"/> export as <input style="width: 80%;" type="text"/>	Case Updated Date <i>mm/dd/yyyy</i> <input type="checkbox"/> export as <input style="width: 100%;" type="text"/>	

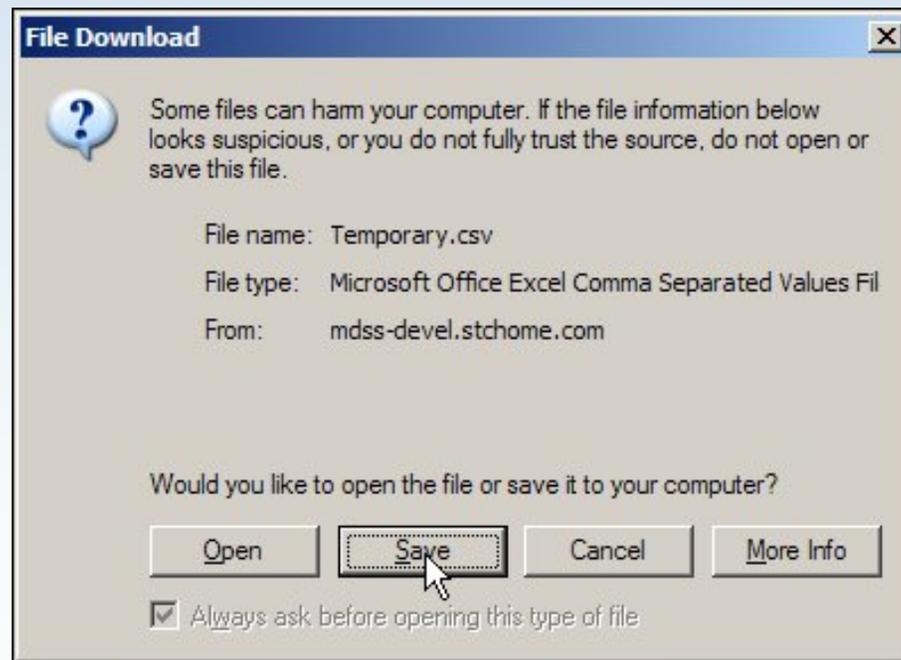
Disease Specific Export

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
On certain computer systems one must hit and hold down the Ctrl button until the export is COMPLETE.

<input type="button" value="Export"/> <input type="button" value="Select All"/> <input type="button" value="Cancel"/>					
<h2>Gastrointestinal Illness Case Investigation</h2> <p>Shiga toxin-producing E. coli (STEC) Michigan Department of Community Health <small>Communicable Disease Division</small></p>					
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 checked="" type="checkbox"/> export as Diagnosis Date	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 checked="" type="checkbox"/> export as Case Completion D
Investigation Status <input checked="" type="checkbox"/> export as Investigation Status			Case Status <input checked="" type="checkbox"/> export as Case Status		
Patient Status <input type="checkbox"/> export as	Patient Status Date <i>mm/dd/yyyy</i> <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	

Exporting the File

6. When you click **Export** you will receive the message below. Click **SAVE** to proceed
If your system requires the Ctrl Button method continue to hold it down here

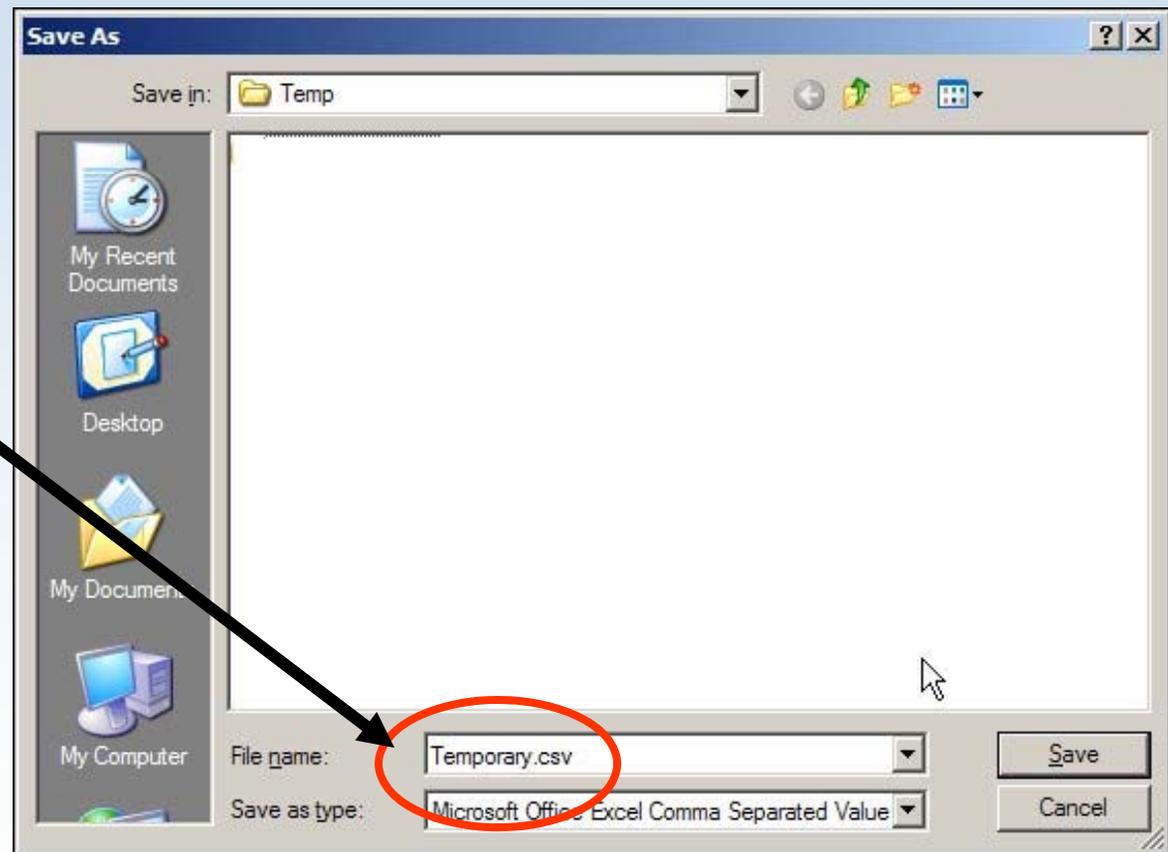


Saving the File

7. Save the file on your computer

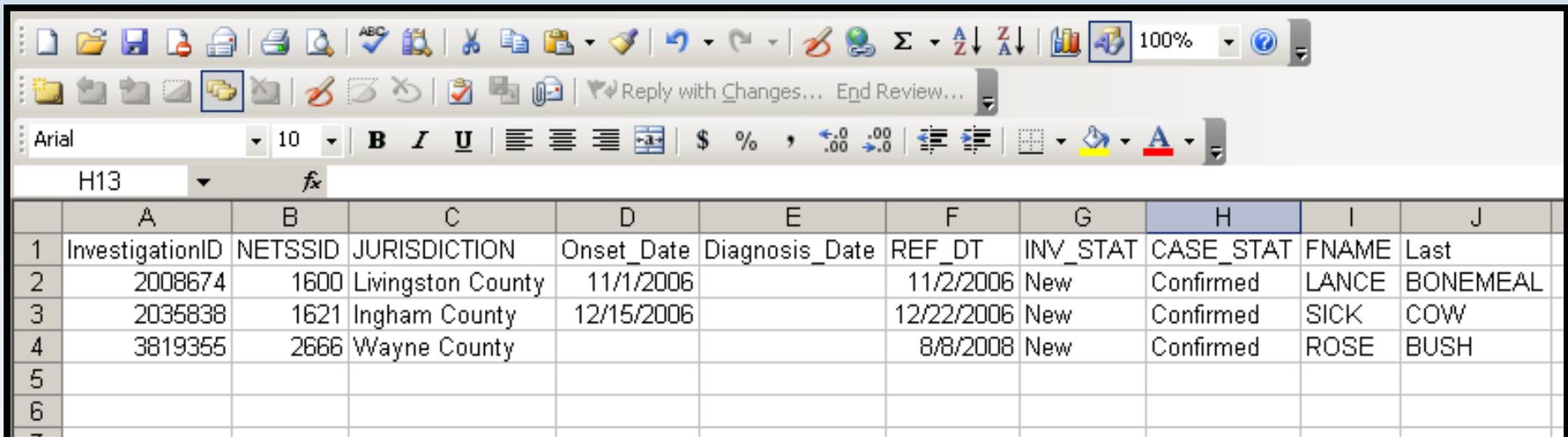
If your system requires the Ctrl Button method you can release at this point

Select your filename and location and click the **SAVE** button (you can rename the file)



Viewing the Disease Specific Export File

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



The screenshot shows a Microsoft Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I	J
1	InvestigationID	NETSSID	JURISDICTION	Onset_Date	Diagnosis_Date	REF_DT	INV_STAT	CASE_STAT	FNAME	Last
2	2008674	1600	Livingston County	11/1/2006		11/2/2006	New	Confirmed	LANCE	BONEMEAL
3	2035838	1621	Ingham County	12/15/2006		12/22/2006	New	Confirmed	SICK	COW
4	3819355	2666	Wayne County			8/8/2008	New	Confirmed	ROSE	BUSH
5										
6										

There is a data dictionary available to help interpret these export results. You can find it at www.michigan.gov/mdss

Click on MDSS Guides and References

I'm having a problem . . .
Who can help me?

Support and Help Contacts

- www.michigan.gov/mdss
- Look at the available User Guides and the FAQs
- For browser, adobe or connectivity issues contact your local IT support
- For general questions your local administrator can help
- Regional Epidemiologists are always available for assistance

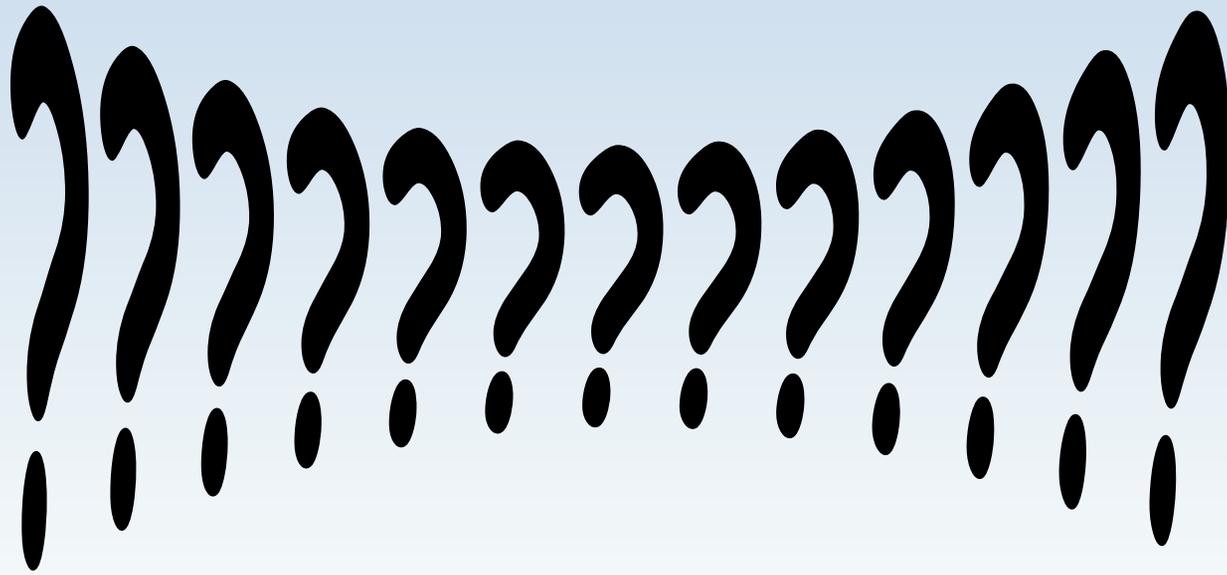
Regional Epidemiologists

Region	Name	Phone/Cell	E-Mail	Counties
1	Carly Adams	517.887.4615 (Ingham) 517.552.6878 (Livingston)	AdamsC@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	Tim Bolen	989.832.6690 517.930.6910 (Cell)	BolenT1@michigan.gov	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	SchreiberS@michigan.gov	Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac,

Acknowledgements

- **Michigan Department of Community Health**
 - Bureau of Epidemiology
 - Bureau of Laboratories
 - Office of Public Health Preparedness
- **Michigan Department of Information Technology**
- **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

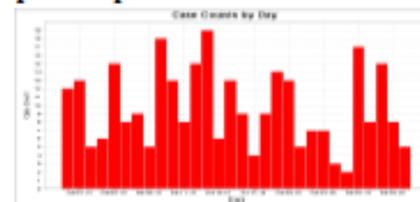
Counts/rate for a selected time period for all disease/disease groups. Select overall geographic area and geographic breakdown.

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](#)
[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](#)
[GIS Map of Diseases by Geography](#)

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: 2000

Time Period

Month: January Year(yyyy): 2009
 Week: 01-2009
 From Date (mm/dd/yyyy): [calendar icon] To Date (mm/dd/yyyy): [calendar icon]

Time Period Based On:

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

Case and Investigation Status

Case Status: Confirmed, Not a Case, Probable
Investigation Status: Active, Canceled, Completed

Geographic Area

State Wide County: Alcona, Alger, Allegan
 Region: 1 North, 2 South
 Local Health Jurisdiction: Allegan County, Barry-Eaton, Bay County
 Zip: [input field]
 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

Demographic Variable 1

Sex Age Group Race Ethnicity

Demographic Variable 2

Sex Age Group Race Ethnicity None

*Indicates required items

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. These common parameters are:

Aggregate vs.
Individual Cases

Counts vs. Rates

Desired Time Period

Which dates to use
to select cases

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

Report Parameter Commonalities Cont.

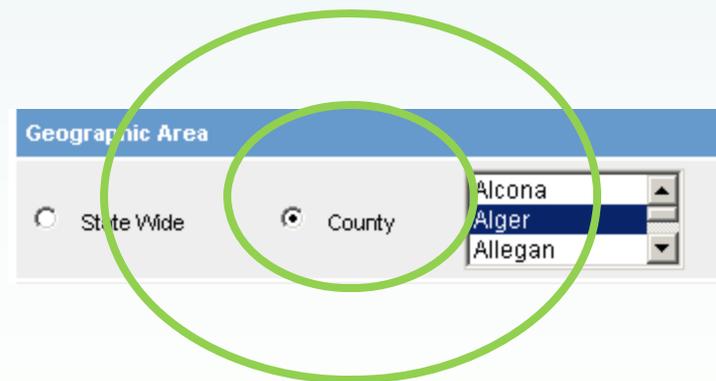
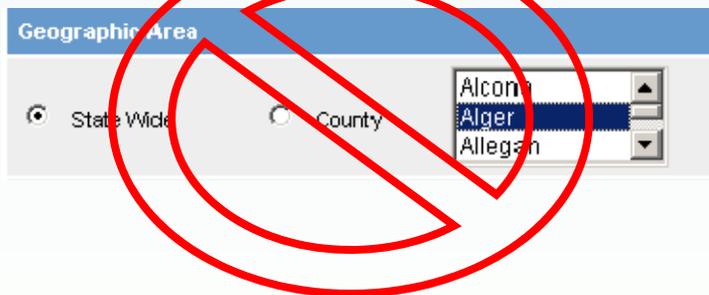
What status cases to choose from

Where should the cases be from

Case and Investigation Status				
Case Status	<input type="text" value="Confirmed"/> <input type="text" value="Not a Case"/> <input type="text" value="Probable"/>	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="text" value="Alcona"/> <input type="text" value="Alger"/> <input type="text" value="Allegan"/>	<input type="radio"/> Region	<input type="text" value="1"/> <input type="text" value="2 North"/> <input type="text" value="2 South"/>
<input type="radio"/> Local Health Jurisdiction	<input type="text" value="Allegan County"/> <input type="text" value="Barry-Eaton"/> <input type="text" value="Bay County"/>	<input type="radio"/> Zip	<input type="text"/>	
<input type="radio"/> City	<input type="text" value="Adrian city"/> <input type="text" value="Albion city"/> <input type="text" value="Algonac city"/>	Township	<input type="text" value="Acme township"/> <input type="text" value="Ada township"/> <input type="text" value="Adams township (Arenac County)"/>	
<input type="radio"/> School District	<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 put in the MDSS on a daily basis
- Aggregate cases are generally based on school based counts of flu-like disease and other illnesses
- The user has the ability to select only aggregate cases or only individually reported cases
- The MDSS default is to include both

Selecting the Table Type

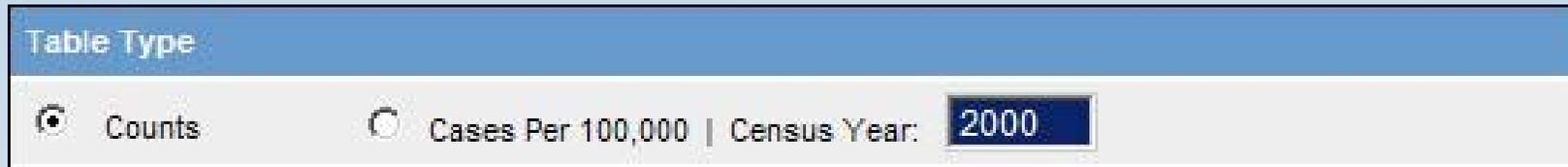


Table Type

Counts Cases Per 100,000 | Census Year: 2000

The user has the ability to select the type of information contained on the report

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

Selecting the 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** – limits the report to cases within the month selected
- **Year** – limits the report to cases within the year provided
- **Five year period ending Year** – limits the report to cases within the specified year and preceding four years (the beginning year is automatically calculated from the ending year provided)
- **From Date / To Date** – limits the report to cases within the date range provided
- **Week** – limits the report to cases within the “MMWR Week” provided
- **Onset vs. Referral** – This option allows you to run the report based on disease onset or referral of the case into the LHD

Beware of Report Quirks . . . (2)

Dates

- When you enter a date range as the “Time Period” parameter, the default operation for MDSS is to select cases with Onset Dates that fall within that range. If Onset Date is unavailable (missing), MDSS will use Referral Date instead or the user can dictate this in some of the reports
- Many reports have the option of breaking down numbers by Month or by MMWR Week. Month is determined by Onset Date (or Referral Date if Onset Date is unavailable). MMWR Week is always determined by Referral Date
- Therefore, 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 software interface with a blue header bar containing the text "Case and Investigation Status". Below the header, there are two dropdown menus. The first dropdown menu is labeled "Case Status" and contains three options: "Confirmed", "Not a Case", and "Probable". The second dropdown menu is labeled "Investigation Status" and contains 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 investigation the case is in, whether Active, New or Complete
- The user can search cases in any combination of case status or stage of investigation

Selecting the Geographic Area

Geographic Area

State Wide County Region

Alcona
Alger
Allegan

1
2 North
2 South

- You may only select from one of these boundary groupings at a time
- Cases will be mapped based on the “Investigation Address”
- Only the cases that fall within the selected geographic boundary will be included on the report

Geographic Area Options

The geographic area options limit the report to the geographic area selected. These areas may be a selection of:

- **State Wide**
- **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." Currently, data that was originally entered into LHDSURV cannot be displayed by "School District" or "City/Township" as this historical data has not been *Geocoded*.

Selecting the Disease or Disease Group

Disease or Disease Group

Reportable Condition

AIDS, Adult
AIDS, Pediatric
Amebiasis

Disease Group

AIDS/HIV
Foodborne
Meningitis

This section provides fields for choosing the **Reportable Condition** or the **Disease Group** for the report

- You may only select from one of these radio buttons at a time
- Only the cases of the selected reportable condition or conditions will be included on the report
- Multiple disease or disease group selections are allowed except for Report 8 – Epi Curve
- Making no selection indicates all diseases or disease groups will be included in the report

Running a Report

[Case Investigation](#)

[System Administration](#)

[Messages](#)

[Reports](#)

[Logout](#)

[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](#)

[GIS Map of Diseases by Geography](#)

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 you would like to use for your search

[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](#)
[GIS Map of Diseases by Geography](#)

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

Case and Investigation Status
Case Status:
Investigation Status:

Geographic Area
 State Wide County:
 Region:
 Local Health Jurisdiction: Zip:
 City:
Township:
 School District:

Demographic Variable 1
 Sex Age Group Race Ethnicity

Demographic Variable 2
 Sex Age Group Race Ethnicity None

*indicates required items

Selecting a Report Format

Each report (with the exception of the GIS Map of Diseases by Geography report and the Epi Curve report) can be presented in three different formats.

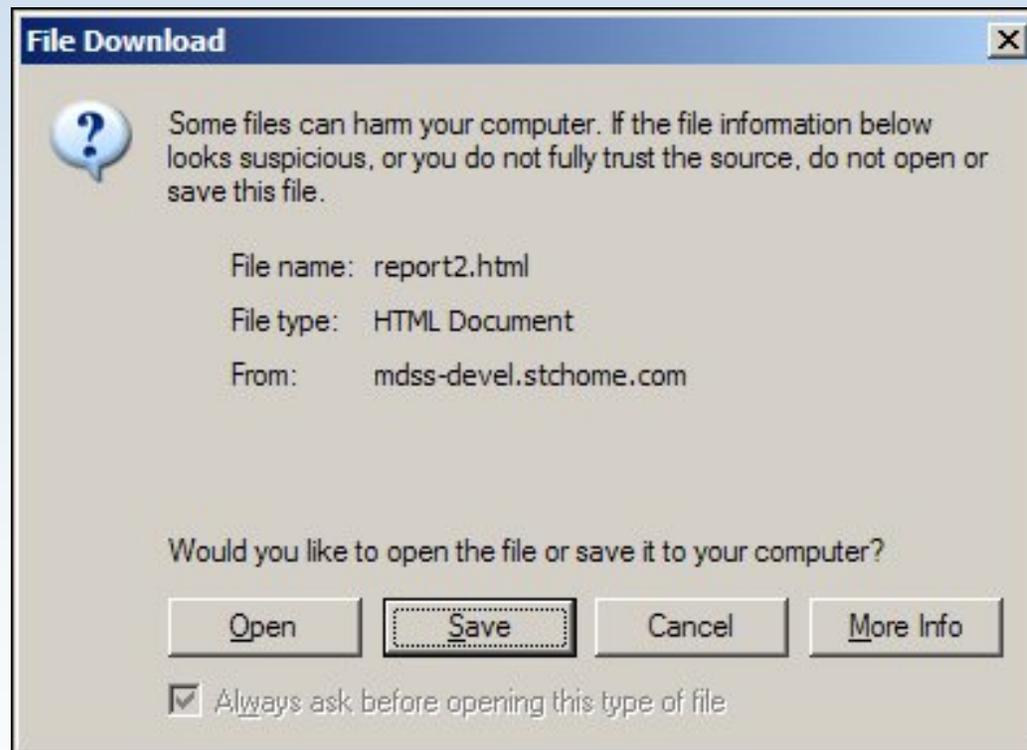
- HTML REPORT – displays the report output as a standard web document
- PDF REPORT – displays the report output as a PDF file in Adobe Acrobat
- CSV REPORT – creates a Comma Separated Value file. The display of this format depends on the configuration of your PC, but usually (and often best) in Excel 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

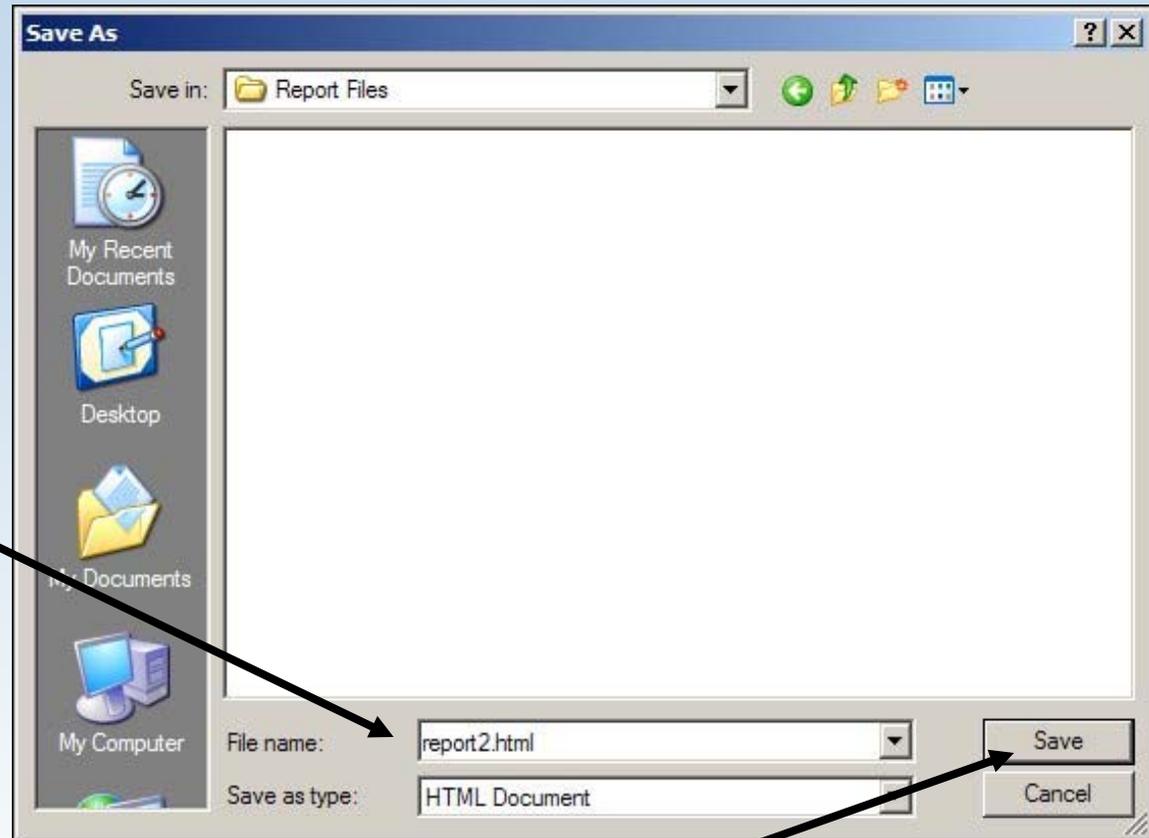
Report 1: Line list of Disease Cases for a Given Timeframe and Geographic Location
Start Date: Mon Jun 7, 2004
End Date: Tue Jun 8, 2004
Reportable Conditions: All conditions
Geographic Area: The State of Michigan
There are 11 cases listed in this report.

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
341994	MARTIN, BILLY		64		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 their own geography of privilege
- This report creates a patient-level list of all cases that fall within the specified time period, geographic area and disease selection
- **Display Columns:** This section of the screen allows for the selection of fields to include on 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 count or rate information for all diseases that fall within the specified time period and geographic area
- **Demographic Variable 1 & 2-** These sections of the screen allow for the breakdown of count or rate information within the report by the chosen demographic variables. The demographic variables include:
 - **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 count or rate information for all diseases that fall within the selected year and geographic area
- **Display Interval:** These sections of the screen allow for the breakdown of count or rate information on the report into columns of **By Month** or **By Week** information
 - Monthly information is presented from January through December of the year selected
 - Weekly information is presented from the first to the last MMWR Publication Week of the year selected
 - Only one radio button may be selected from this section

Report 4 - Diseases – 5 Year History

Table of Diseases Comparing a selected 5 Year Period

- Creates a comparison table of count or rate information for all diseases reported for the selected year and preceding four years within the geographic area.



The screenshot shows a user interface for selecting a display interval. It features a blue header bar with the text "Display Interval". Below the header, there are three radio button options: "By Year" (which is selected), "By Month", and "By Week". The "By Month" option is accompanied by two dropdown menus labeled "From month:" and "through month:", both currently set to "January". The "By Week" option is accompanied by two text input boxes labeled "From week:" and "through week:", both of which are currently empty.

- **Display Interval:** This section of the screen allows for the breakdown of count or rate information within the report as follows:
 - **Year** - Information is presented with a column for each year
 - **Month** - Monthly information for the beginning month (**From Month**) to ending month (**Through Month**) is presented in columns for each year
 - **Week** – Weekly information for the beginning MMWR week (**From Week**) to the ending MMWR week (**Through Week**) is presented in columns for each year within the five year time span

Report 5 - Diseases YTD by Geography

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

- Creates a table of count or rate information 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:** This section of the screen allows for the breakdown of count or rate information within the report as follows
 - **Month** - The monthly information is presented in columns from January of the year selected through the selected ending month (**Through Month**)
 - **Week** – The weekly information is presented in columns from the first MMWR week of the year selected through the ending MMWR week (**Through Week**)

Report 5 – Geographic Breakdown

Geographic Breakdown

Region County City Zip

- **Geographic Breakdown:** This section of the screen allows for the breakdown of count or rate information within the report as follows
 - **Region** – Counts or rates are presented in columns by Public Health Preparedness Regions within the report
 - **County** – Counts or rates are presented in columns by counties within the report
 - **City** – Counts or rates are presented in columns by cities within the report
 - **Zip** – Counts or rates are presented in columns by zip codes within the report

Report 6 - Disease History by Geography

*Displays selected Diseases or Disease Groups
by Geographic Area and Timeframe*

- Creates a comparison table of count or rate information 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:** This section of the screen allows for the breakdown of count or rate information within the report as follows
 - **Year** - The yearly information is presented in columns for each year within the five year time span
 - **Month** - The monthly information allows for selection of the beginning month (**From Month**) and ending month (**Through Month**). Monthly information is presented in columns for each month within the five year time span
 - **Week** – The weekly information allows for selection of the beginning MMWR week (**From Week**) and ending MMWR week (**Through Week**). The weekly information is presented in columns for each MMWR week within the five year time span

Report 6 – Cont.

Geographic Breakdown

- **Geographic Breakdown:** This section of the screen allows for the breakdown of count or rate information within the report as follows
 - **Region** – Counts or rates are presented in columns by Public Health Preparedness Regions within the report
 - **County** – Counts or rates are presented in columns by counties within the report
 - **City** – Counts or rates are presented in columns by cities within the report
 - **Zip** – Counts or rates are presented in columns by zip codes within the report

Report 7 - Diseases by Geography

Table of Diseases by Geographic location

- Creates a table of count or rate information for all diseases that fall within the selected time period and geographic area
- **Geographic Breakdown:** This section of the screen allows for the breakdown of count or rate information within the report as follows:
 - **State Wide** – Counts or rates are presented as totals for the State
 - **Region** – Counts or rates are presented in columns by Public Health Preparedness Region within the report
 - **Local Health Jurisdiction** – Counts or rates are presented in columns by local health jurisdictions within the report
 - **County** – Counts or rates are presented in columns by counties within the report
 - **City** – Counts or rates are presented in columns by cities within the report
 - **Zip** – Counts or rates are presented in columns by zip codes within the report
 - **School District** – Counts or rates are presented in columns by school districts within the report

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:** This section of the screen allows for graphing the count or rate information by the selected interval
 - **By Month** – Information is presented for each month within the time period selected
 - **By MMWR Week** - Information is presented for each MMWR week within the time period selected
 - **By Day** – Information is presented for each day within the time period selected
- **Disease or Disease Group:** Only one reportable condition or disease group may be selected at one time

Aggregate Case Reports

- Very similar to other reports, but only returns aggregate report totals – and only those entered after the system was modified to accept them
- Legacy data will not be utilized in these statistics

Aggregate Reports			
Time Period			
<input checked="" type="radio"/> Month: <input type="text" value="January"/>	Year(yyyy): <input type="text" value="2009"/>		
<input type="radio"/> Week: <input type="text" value="01-2009"/>			
<input type="radio"/> From Date (mm/dd/yyyy): <input type="text"/> 			
To Date (mm/dd/yyyy): <input type="text"/> 			
Time Interval			
<input type="radio"/> By Month <input checked="" type="radio"/> By Week <input type="radio"/> By Day			
Case and Investigation Status			
Case Status: <input type="text" value="Confirmed"/> Not a Case Probable	Investigation Status: <input type="text" value="Active"/> Canceled Completed		
Geographic Area			
<input checked="" type="radio"/> Region <input type="radio"/> County <input type="radio"/> Local Health Jurisdiction			
Aggregate Statistics			
<input checked="" type="radio"/> Cases	<input type="radio"/> Deaths	<input type="radio"/> New Hospitalized	<input type="radio"/> Total Hospitalized
<input type="radio"/> New Isolated	<input type="radio"/> Total Isolated	<input type="radio"/> New Quarantined	<input type="radio"/> Total Quarantined
Aggregate Conditions			
Condition* <input type="text" value="Amebiasis"/> Animal Bite Anthrax			
Reporting Source			
Source: <input type="text" value="ACC"/> Hospital LTC			
<small>*indicates required items</small>			
View HTML Report View PDF Report View CSV Report Reset Help			

Audit Report

- Generates information on audited activities for users including:
 - Audit Date
 - Case ID
 - Patient Name
 - Patient 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: August Year(yyyy): 2016

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

ACA_INTERNS
 ALLEGAN GENERAL HOSP
 ALPENA GENERAL HOSP
 ASPIRUS KEWEENAW HOSP

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

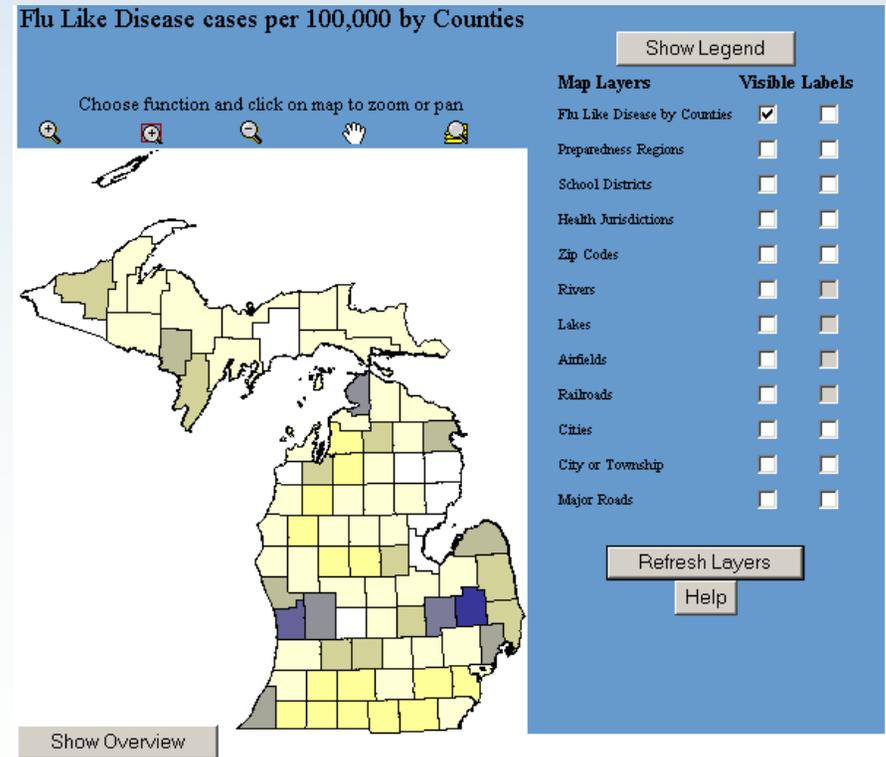
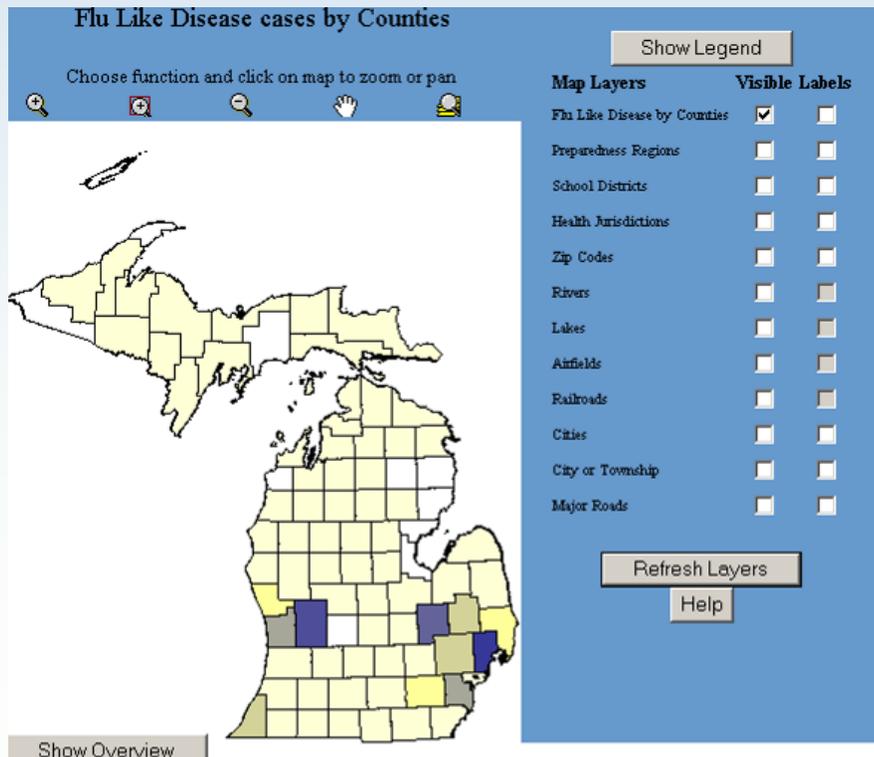
There are 112 rows in this report.

User	Audit Date	Case ID	Patient Name	Patient DOB	Audit Action
CRANDELL-ALDEN, ERIN	01/24/2012	317010074	CRANDELL, ERIN	05/01/1974	Add Case
CRANDELL-ALDEN, ERIN	01/24/2012	317010074	CRANDELL, ERIN	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, ERIN	05/01/1974	Add Case
CRANDELL-ALDEN, ERIN	01/24/2012	317020041	CRANDELL, ERIN	05/01/1974	Lab Added With New
CRANDELL-ALDEN, ERIN	01/24/2012	317010074	CRANDELL, ERIN	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	SI, JAMES	04/01/1999	Add New Case Data
HAMILTON, ELIZABETH	01/23/2012	316990022	SI, JAMES	04/01/1999	Case Not Merged
HAMILTON, ELIZABETH	01/23/2012	316990022	SI, JAMES	04/01/1999	Update Case Detail
HAMILTON, ELIZABETH	01/24/2012	317000003	CRANDELL, ERIN	07/01/1974	Add New Case Data
HAMILTON, ELIZABETH	01/24/2012	317000003	CRANDELL, ERIN	07/01/1974	Case Not Merged
HAMILTON, ELIZABETH	01/24/2012	317000003	CRANDELL, ERIN	07/01/1974	Update Case Detail
HAMILTON, ELIZABETH	01/24/2012	317000003	CRANDELL, ERIN	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 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 several sections for user input: 'Select Indicator' with a dropdown menu set to 'Completion of Therapy Report'; 'Geographic Area' with a dropdown menu set to 'Alcona'; and 'Time Period' with two date input fields labeled 'From Date (mm/dd/yyyy):' and 'To Date (mm/dd/yyyy):', each accompanied by a calendar icon. At the bottom of the form, there are three buttons: 'Run Report', 'Reset', and 'Help'.

- 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

I'm having a problem . . .
Who can help me?

Support and Help Contacts

- www.michigan.gov/mdss
- Look at the available User Guides and the FAQs
- For browser, adobe or connectivity issues contact your local IT support
- For general questions your local administrator can help
- Regional Epidemiologists are always available for assistance

Regional Epidemiologists

Region	Name	Phone/Cell	E-Mail	Counties
1	Carly Adams	517.887.4615 (Ingham) 517.552.6878 (Livingston)	AdamsC@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	Tim Bolen	989.832.6690 517.930.6910 (Cell)	BolenT1@michigan.gov	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	SchreiberS@michigan.gov	Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac,

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- **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

