

User Guide

Version 2.0

August 2021

Prepared by the Michigan Overdose Data to Action Team



Table of Contents

Table of Contents 1
Change Log 2
Description
Terminology
Similarities and Differences to Michigan Syndromic Surveillance System7
Roles and Responsibilities
Access and Jurisdiction Determination10
What Can be Done in MiCelerity10
ADMIN/LHJ Users 10
HCP Users 11
Functional Areas within MiCelerity 11
Helpful Key System Functionality (Step by Step Guidance)13
Functionality relevant to all users of system (ADMIN, LHJ, HCP)13
Events: New Event
Functionality Relevant to ADMIN and LHJ Users15
Events: Event Listing15
Events: Event Search15
Reports: Trends
Reports: Demographics17
Reports: Line Listing
Functionality Relevant to ADMIN Users19
Managing the Work Queue19
Facilities 21
Users 21
User Account Access Request Form

Change Log

User Guide Version 2 Changes

Updated number of codes collected by MiCelerity

Added "Visit ID" and "Visit Sequence" definitions

Updated MiCelerity screenshots to reflect enhancements within system

Changed "Event" terminology to "Diagnosis" terminology

Added "Alerts" section describing new "Alerts" functionality

Description

MiCelerity is an automated, real-time surveillance system designed to collect information regarding drug poisoning¹ events in Michigan. MiCelerity was created in 2019 with funding from the CDC aimed at addressing the opioid overdose crisis and reducing overdose morbidity and mortality. The surveillance system was designed as a repository for events deemed reportable to the Michigan Department of Health and Human Services (MDHHS) under reporting rules R 325.76, R 325.77, R 325.78, and R 325.79. These rules state that any poisonings due to the use of prescription or illicit drugs are reportable to MDHHS and must be reported to MDHHS by the health professional or health facility within five working days of request. MiCelerity removes the burden of reporting from health providers and gives MDHHS and local health jurisdictions the ability to track overdose trends and investigate emerging drug trends in real-time.

MiCelerity functions by leveraging HL7 electronic health messages in the form of Admission, Discharge, and Transfer (ADT) messages. ADT messages are triggered by certain healthcare events (such as admission to an Emergency Department (ED)) and contain information regarding demographic and diagnostic information, including ICD-10-CM codes, of the patient. In participating Michigan healthcare facilities, messages about these events are exchanged with the Health Information Exchange (HIE) organization Michigan Health Information Network (MiHIN). Among facilities that submit information to MiHIN *and* participate in the Pay for Performance program, MiHIN scans the following types of ADT messages for drug poisoning-related ICD-10-CM codes:

Code	Triggering Event
A01	Patient admit
A02	Patient transfer
A03	Patient discharge
A04	Patient registration
A05	Patient pre-admission
A06	Change an outpatient to an inpatient
A07	Change an inpatient to an outpatient
A08	Patient information update
A11	Cancel patient admit
A12	Cancel patient transfer

When a drug poisoning-related code is found in one of these messages, a copy of the message is routed into MiCelerity from MiHIN. Relevant information from each message is then retrieved and populated in each patient and drug poisoning diagnosis² record in MiCelerity. Data in MiCelerity primarily come from EDs, but other facilities such as long-term care or skilled nursing facilities may be captured in MiCelerity if they meet the above criteria.

¹ Throughout this guide, the terms "overdose" and "drug poisoning" will be used interchangeably and refer to any event in which the use of a prescription or illicit drug results in a morbid condition, including death.

² Each drug poisoning-related ICD-10-CM code is considered one diagnosis. If an individual receives a code pertaining to opioid use and a code pertaining to cocaine use in a single ED visit, two diagnoses would register in MiCelerity. In MiCelerity, information can be viewed for individuals or for diagnoses, but data can only be exported at the diagnosis level.

These messages primarily come from acute care hospitals with EDs, but other types of facilities that exchange HL7 information with MiHIN are also included in the surveillance system. The coverage of MiCelerity is considered statewide, as most EDs in Michigan (~85%) exchange information with MiHIN and are captured in MiCelerity.

The current list of drug poisoning-related ICD-10-CM codes includes 2,472 codes. Relevant codes within the following over-arching categories are included:

ICD-10-CM Code	
Category	Category Description
F11-F16, F18-	Mental and behavioral disorders due to psychoactive substance use (excluding
F19*	alcohol and marijuana)
P04*	Newborn affected by noxious substances transmitted via placenta or breast milk
P96*	Neonatal withdrawal symptoms from maternal use of drugs of addiction
Q86.0*	Fetal alcohol syndrome (dysmorphic)
T36-50	Poisoning by, adverse effect of and underdosing of drugs, medicaments and
	biological substances
T51	Toxic effect of alcohol
*Please note that alt	hough the system automatically collects data regarding NAS, FAS, and mental and
behavioral health co	des related to drug use, healthcare facilities that submit data manually are only expected to
report drug poisonin	g events to MiCelerity.

The initial version of MiCelerity went into production in March 2020. While the system began collecting data in the test environment in October 2019, any data prior to March 2020 is considered incomplete as system changes and updates occurred between October 2019 and March 2020 that may have affected data quality. When looking at trends, analyzing data from March 2020 forward will give the most comprehensive and accurate results.

Suggested MiCelerity citation: Michigan Department of Health and Human Services. MiCelerity V1.2. Date of access.

Terminology

Admission Date	Date the patient was admitted for care at the originating facility
Admit Discharge Transfer (ADT) Message	ADT messages carry patient information for HL7 communications and important information about trigger events, such as patient admit, discharge, transfer, and registration. ADT messages communicate patient demographic and visit information, as well as the reason the message is being sent. ADT messages are typically initiated by the electronic medical records or a registration application and are used to synchronize ancillary systems about the state of a patient. Every time a patient's record is updated, an ADT message is sent.
Age	The age variable in MiCelerity is calculated based on the birth date of the patient and the date of admission for the corresponding drug poisoning event. If

admission date is unavailable, the date the ADT message is received is used to calculate age.

Alert An alert refers to the notification generated once a preset threshold, based on some number of visits or a statistical aberration, is broken.

Diagnosis One record, or line of data, within MiCelerity. Each line of data is based on one ICD-10-CM code assigned to an individual during the course of their healthcare encounter. A patient may have several overdose-related diagnosis codes for each visit and therefore may have several diagnosis records (lines of data) associated with one healthcare visit.

Diagnosis ID Unique identifier for each record (line of data) in MiCelerity.

Diagnosis Status Current status of the diagnosis record. A diagnosis can have a status of valid, cancelled or superseded. A diagnosis may be cancelled if the action associated with the incoming message (e.g. admit, discharge) was entered in error, or if a decision was made to not follow-through on the action. A diagnosis may be superseded when a subsequent message replaces the original message.

- **Discharge Date** Date the patient was discharged from care at the originating facility
- Drug Class The drug class groups individual diagnosis codes into broad categories of commonly abused or misused drugs. Drug classes include antiepileptic and sedative-hypnotics, cannabis, cocaine, ethanol, hallucinogen, opioid, sedative, tranquilizer, psychostimulants, other, and unspecified drugs.
- Drug Type The drug type groups individual diagnosis codes into specific categories of drugs following the ICD-10-CM organizational structure. Mental and behavioral disorders related to substance use and neonatal conditions impacted by substance exposure are classified by the drug of exposure.
- Entry DateThe date the receipt of an ADT initiated the MiCelerity record or the date of
manual entry of a MiCelerity record

FacilityThe facility jurisdiction is the local health department in which the healthcareJurisdictionfacility that submitted the message is located. The facility jurisdiction is only
available on the Trends Report page.

HL7HL7 is a Standards Developing Organization accredited by the American National
Standards Institute (ANSI) to author consensus-based standards representing a

	broad view from healthcare system stakeholders. HL7 has compiled a collection of message formats and related clinical standards that define an ideal presentation of clinical information, and together the standards provide a framework in which data may be exchanged.
ICD-10-CM Code	The ICD-10-CM is a morbidity classification published by the United States for classifying diagnoses and reason for visits in all health care settings. The ICD-10-CM is based on the ICD-10, the statistical classification of disease published by the World Health Organization (WHO).
Jurisdiction	The jurisdiction is the local health department in which the patient lives at the time of message receipt. The jurisdiction is classified as statewide when the address of residence is missing or cannot be successfully geocoded.
Message	Message refers to the ADT message received by MiHIN and routed into MiCelerity that contains patient and diagnostic information. One message may contain multiple ICD-10-CM codes, therefore, multiple diagnoses (lines of data) may be generated for a single visit.
MMWR Week	This variable provides the Morbidity and Mortality Weekly Report (MMWR) week of the diagnosis based on the admission date. If admission date is missing, discharge date is used for the calculation. If the discharge date is missing, the received date is used. MMWR weeks are standard epidemiologic timeframes set by CDC for the purposes of standardized case count reporting.
OID	An OID is a globally unique ISO (International Organization for Standardization) identifier. The OIDs in MiCelerity represent the unique healthcare facility that sent the ADT message. OIDs are paths in a tree structure, with the left-most number representing the root and the right-most number representing a leaf. The OID's used in HL7 models are always numeric strings (e.g., "2.16.840.1.113883.3.1"). HL7 maintains a registry of OIDs (located at <u>https://www.hl7.org/oid/index.cfm</u>) which contains additional information such as the OID submitter name and contact information, responsible body, and the name and text description of the facility or object identified by the OID.
Patient Disposition	The patient's disposition refers to the status of the patient at the time the ADT message was received. A patient may be classified as outpatient, inpatient if admitted to the hospital for care, or deceased.
Patient ID	Unique identifier for each patient. MiCelerity initiates a patient deduplication process for each received message so that a single patient will have the same patient ID for each diagnosis and visit.
Patient Status	The patient status refers to the current vital status of a patient (i.e. alive or dead). This information is captured in the Patient Identification Segment of the ADT message, which contains important information about the patient demographics.

Patient Status Date	Date the last update to the patient's status was received.
Poisoning Classification	Diagnoses are classified by poisoning status. A diagnosis with an ICD-10-CM poisoning code (T36.0-T50.9) is classified as a probable poisoning. Diagnoses with an ICD-10-CM code within the mental and behavioral disorders due to psychoactive substance use (F11-F16, F18-F19) are classified as possible poisonings. Diagnoses with ICD-10-CM codes related to prenatal exposure or exposure through breastmilk to commonly abused medications (P04.13, P04.14, P04.16, P04.17, P96, Q86), alcohol (P04.3), or drugs of addiction (P04.4), ICD-10-CM codes for neonatal withdrawal symptoms from maternal use of drugs or addiction (P96.1), or ICD-10-CM codes for fetal alcohol syndrome (FAS) (Q86.0) are classified as 'not a poisoning'. Diagnoses with ICD-10-CM codes for toxic effects of alcohol (T51) are classified as 'other'.
Received Date	Date the ADT message was received by MiHIN from the originating facility
Region	The region is the emergency preparedness region in which the patient lives at the time of message receipt. Users can filter the Demographics Report by region.
Visit ID	Unique ID assigned to the healthcare encounter. A visit corresponds to a single healthcare encounter for an individual and may result in multiple diagnosis records if multiple drug-related ICD-10-CM codes are assigned during the visit. Admission date/time, received date/time, patient ID, and facility are used to determine unique visits.
Visit Sequence	Sequential number based on number of visits captured in MiCelerity for an individual. An individual's first drug-related visit captured in MiCelerity is assigned 1, the second visit is assigned 2, and so on.

Similarities and Differences to Michigan Syndromic Surveillance System

MiCelerity and the Michigan Syndromic Surveillance System (MSSS) are both used to track potential overdoses in Michigan. Despite some similarities, each system provides unique functionality and are used to meet different data needs. Important distinctions between these systems are described in detail below.

Reporting mandates

MiCelerity is intended to assist healthcare providers and healthcare organizations to comply with the MDHHS administrative reporting rule for overdoses. There are no legal or administrative mandates for participation in MSSS; however, participation in MSSS allows healthcare organizations to meet certain Centers for Medicare and Medicaid Services Meaningful Use Requirements.

Data sources and elements

MiCelerity collects clinical information from ADT messages sent from healthcare facilities. These messages contain detailed patient-level information including diagnosis codes, insurance information, patient disposition, patient demographics, and patient-identifying information. MiCelerity is the only surveillance system that captures individually identifying information on potential overdose victims. This information allows MiCelerity to link multiple visits to a single patient and enables the data user to examine longitudinal data for each suspected overdose patient. MSSS also collects clinical information from healthcare facilities, including chief complaint and patient demographics. Most hospitals that participate in MSSS also send diagnosis codes. However, MSSS does not collect any identifying information.

Coverage

MiCelerity is designed to capture overdose events throughout the entire state of Michigan, but some facilities are unable to electronically submit data and are not currently captured in the system. Although MSSS is scalable to statewide coverage, it currently does not have full participation of all reporting entities. Healthcare providers and organizations that are not currently able to transmit data via ADT messages will be able to report overdoses to MiCelerity manually. MSSS does not have manual entry functionality.

Case finding

MiCelerity identifies potential overdoses by comparing the diagnosis code on each incoming ADT message or manually entered case to a list of 2,472 overdose-related ICD-10-CM codes. MiCelerity captures potential overdoses of all types, not just opioid overdoses, and conditions related to overdose, such as certain mental and behavioral health disorders and neonatal abstinence syndrome (NAS). MSSS identifies potential overdoses by the submitted ICD-10-CM code, if present, and a combination of specific terms and phrases in the chief complaint field.

Roles and Responsibilities

Three different levels of roles exist within MiCelerity, with each role having unique access levels and responsibilities. A user's jurisdiction and position determine which data are accessible and editable by him or her.

Administrative staff (**ADMIN**) are state-level staff at MDHHS that directly work on overdose surveillance; these users have unrestricted access to the system and are responsible for maintaining the user list, monitoring data quality, and reporting any issues that occur in the system. Administrative users are able to view personally identifying information for NAS and FAS data.

Local Health Jurisdiction users (LHJ) are jurisdiction specific staff whose work is relevant to overdose surveillance. These users are only able to access data within their jurisdiction (i.e. the patient's residence is in the user's local health jurisdiction or they were cared for in a facility within the user's local health jurisdiction) or that are not assigned to a specific local jurisdiction (these diagnoses are considered "Statewide" diagnoses and can occur when an address is missing). These users are responsible for monitoring data quality and reporting within their jurisdictions. Local health jurisdiction users are not able to view personally identifying information such as name, address, or phone number for NAS and FAS data.

Healthcare Providers (**HCP**) are users within healthcare systems tasked with reporting overdoses to MDHHS under the reporting rules previously mentioned. These users have limited access to the system

and can only access the cases that user entered. HCP users should check if their facility is a Pay for Performance participating facility and submits data to MiHIN. Otherwise, HCP users are responsible for manually entering their cases into MiCelerity. Ensuring reporting for overdose cases within their facility is the responsibility of the HCP user.

Topic	Task	ADMIN	LHJ	НСР
	Can create statewide ^a manual records	Х	Х	
	Can create jurisdiction specific manual records	Х	Х	
Record	Can create records only for specific health			×
Management	system/facility			^
	Can edit/update previously created records or	v	v	
	records within their jurisdiction	^	^	
	Can view all statewide records a	Х	Х	
	Can view jurisdiction specific records	Х	Х	
	Can only view records created/generated by facility			Х
	Can download data	Х	Х	
Data Usage	Can search for records within their jurisdiction	Х	Х	
	Can view personally identifying information for NAS and FAS records	x		
	Responsible for monitoring data quality	Х		
	Can create and monitor alerts	Х	Х	
	Can edit users of the system	Х		
	Responsible for resolving suspected duplicate	v		
Administrativo	records in the "Work Queue" ^b	^		
Auministrative	Responsible for reporting system issues	Х		
	Ensures reporting rules are being fulfilled for relevant patient encounters			x

See the below table for the capabilities and responsibilities of these three distinctive user roles:

^aStatewide records refer to records that are not assigned to a specific local health jurisdiction, which can occur when records are missing addresses.

^bCurrently, de-deduplication is the responsibility of ADMIN users; in the future, this responsibility will transition to LHJ users.

Due to the highly sensitive nature of the data received by MiCelerity, and the need to keep this data private and secure, access to MiCelerity is only granted to a minimum necessary number of staff at the state and local level whose work is relevant to overdose surveillance and prevention within Michigan. Ensuring that the user's role accurately reflects the scope of their work is essential in order to keep the information captured by MiCelerity secure; access level in the system is regularly monitored and updated.

Responsibility of the Healthcare Facilities for Maintaining Data Quality

The primary purpose of MiCelerity is to help healthcare providers meet the requirements of the MDHHS administrative rules that mandate reporting of suspected drug poisonings to MDHHS within five (5) days of knowledge or suspicion of the event(s) (see R 325.76, R 325.77, R 325.78, and R 325.79 of the Michigan Administrative Code). Healthcare providers and health facilities that actively participate in MiHIN data exchange and the BCBSM Pay-for-Performance program for ADT referrals should routinely assess the quality and completeness of their automated data feeds to ensure that all suspected drug poisonings are reported to MiCelerity within the five day reporting window. Any suspected drug poisoning events that have not been received by MiCelerity through the automated data feed must be manually entered into MiCelerity by the healthcare provider.

MDHHS will periodically perform quality assurance audits at the facility level. Audit findings will be shared with the corresponding facility and MDHHS will work with individual facilities to improve reporting as needed.

Access and Jurisdiction Determination

Access to the system will be facilitated by ADMIN users at the state. If a user has existing access to MDSS, access to MiCelerity can be obtained by filling out the User Account Access Request Form (found at the end of this user guide) and submitting the form to MDHHS-MODASurveillance@michigan.gov. Access will be granted to you by an administrative user upon approval. If a user does not have an existing MDSS account, access can be obtained by (1) filling out the User Account Access Request Form (found at the end of this user guide), (2) submitting the form to MDHHS-

MODASurveillance@michigan.gov, (3) requesting access to MDSS through MILogin, and (4) checking "MiCelerity" under Systems Access Needed on the registration form. Users should register for MILogin using the Trusted 3rd Party MILogin website: <u>https://milogintp.michigan.gov</u>. All steps will need to be completed to obtain access to MiCelerity.

A maximum of **3** users will be allowed to access MiCelerity from each local health jurisdiction. Examples of appropriate users at the local health jurisdiction level include: health officers, medical directors, public health nurses, epidemiologists, or overdose program managers. If a user is inactive for 90 days, their account will be automatically deactivated (a notification will be sent prior to deactivation).

Access to the system is determined by the jurisdiction of the user. The jurisdiction of the user is based on where the user is located and their profession with regards to addressing overdoses.

The jurisdiction of an **HCP** user is the facility in which patients are treated for drug poisoning events and for which the HCP user is responsible for reporting these events. HCP users are only able to report events from their facility and are only able to view records in the system that occurred at their facility.

An **ADMIN** user's jurisdiction is considered the state of Michigan. ADMIN users are able to see and download all records for the entire state and can create or edit any records in the system.

The jurisdiction of an **LHJ** user is the county or local health department area in which they serve. LHJ users can create or edit records in their jurisdiction, as well as statewide records (those without a specific local jurisdiction). They can view and download all records they created and those records which "occur" in their jurisdiction (i.e. the patient associated with the records either went to a healthcare facility within the LHJ jurisdiction or the patient's address is within the LHJ jurisdiction).

Statewide users who are not ADMIN level will have similar access and roles within MiCelerity as LHJ users, with their jurisdiction being considered the state (i.e. they will have create/edit/view/download privileges for any records in the state, but they are not able to access the Work Queue or edit users of the system).

What Can be Done in MiCelerity

ADMIN/LHJ Users

- Export search output (diagnosis or line listing) in pdf or csv
 - Search by desired criteria (e.g., time, diagnosis or patient, geographic area)
 - Save search criteria for future use
- Manage key information about records, including
 - Contact information (e.g., address, phone number, email)

- Basic demographics (e.g., age, race, ethnicity)
- Diagnosis information (e.g., ID, status, drug type)
- Facility information (e.g., Facility name, county)
- Add new records
- View and track trends and demographics in drug poisoning diagnoses
 - Modify search criteria to meet your needs
- Share data across jurisdictions for multijurisdictional monitoring
- De-duplicate records and resolve issues (only designated ADMIN users)
- Edit user info, roles and privileges and view user activity (only ADMIN users)

HCP Users

- View records within their healthcare facility
 - Search by desired criteria (e.g., time, diagnosis or patient, geographic area)
 - Save search criteria for future use
- Enter new diagnoses and key information about new records, including
 - o Contact information (e.g., address, phone number, email)
 - Basic demographics (e.g., age, race, ethnicity)
 - Event information (e.g., ID, status, drug type)
 - Facility information (e.g., Facility name, county)

Functional Areas within MiCelerity

Data (formerly Events)

The Data tab allows the user to search for or add specific incidents in MiCelerity. The New Diagnosis subtab is used to add all pertinent information for a new record, including identifiers, demographic information, geographic information and clinical information.

The Diagnosis Search sub-tab allows the user to search for specific diagnoses that have already been entered based on clinical information, patient identifiers, time period or geography. Searches conducted under the Diagnosis Search can be saved for future use.

The Diagnosis Listing sub-tab displays diagnosis records in the system. The list of diagnoses displayed can be based on a saved search constructed under Diagnosis Search, or the list can be filtered using the filter bars under each variable in Diagnosis Listing. Information under Diagnosis Listing can be exported from the system using the Export button.

Admin

The Admin tab is used for checking or updating user information and resolving possible duplicate indicators for the same patient. The Work Queue sub-tab allows the user to go through data indicating possible duplicate patient indicators. The user can compare the identifiers and decide whether or not the messages relate to the same person, selecting Merge or No Merge as appropriate to release those messages from the work queue. Only users with administrative level access can access the Work Queue.

The Facilities sub-tab is for maintaining information on participating hospitals and other facilities. Admin-level users can update facilities names as needed.

The Users sub-tab is for maintaining user information. Users can update their names, emails or activity status as needed. Admin-level users can update the access level of users.

Reports

The Reports tab allows the user to look at aggregate information and export datasets. The Line Listing sub-tab enables the user to export a dataset for a specific time period, geographic area and/or clinical criteria. The line listing exported from this tab encompasses the same events that can be exported under the "Data" tab but has a reduced variable list for quicker downloading and simpler analyses. It also allows the user to choose which variables will be exported, if not all of the variables in the system are desired. For datasets created in the Line Listing sub-tab, each line, or "diagnosis", in the data set refers to one, overdose related, ICD10CM diagnosis code assigned during a healthcare encounter. If a visit to the emergency department involved more than one drug-related code it will have multiple associated lines/diagnoses in the dataset.

The Demographics sub-tab allows the user to export data aggregated by demographic groups. For example, if the user chooses to track drug types by sex, a report will list the number of females and the number of males with codes for each drug type. Like the Line Listing sub-tab, it allows the user to specify a time period, a geographic area and clinical criteria. The user may select one or two demographic variables for aggregation.

The Trends sub-tab provides a tool for visualizing drug-related healthcare visits over time. The user selects a time period of interest, as well as a health department catchment area and a drug class. Pressing the update button will result in the updating of the main graph to show frequencies of visits related to the selected drug class in residents of the selected catchment area. The Trends sub-tab also has a section called "Visit Counts by Facilities." This gives the number of total visits related to drug-related healthcare visits in each hospital or other facility in the selected time period.

Alerts

The alerts tab allows users to create and manage rules for generating alerts indicating increases in drug poisoning diagnoses. All users of the system are able to create and manage alerts. The "Rules" sub-tab allows users to see all rules created by any user. From the listing of rules, users can click on the rule ID to view rule details and edit rules. The rules listing can be sorted or filtered by the various columns present.

The "New Rule" sub-tab allows users to create and save a new rule. Users will need to select their UserID and input the email address at which they would like to receive alert notifications. Users can choose to create alerts for specific jurisdictions, facilities, poisoning classifications, diagnosis codes, drug types, or drug classes. An alert can either be based on a raw count or a statistical aberration. If the user chooses "Visit Counts" as the alert type, they will set a visit count threshold over a period of days (time span). If the visit count is exceeded during the specified time span, the user will receive an alert email. If the user chooses "Statistical Aberration" as the alert type, the user can then specify the number of standard deviations above the mean they would like to receive an alert for. Mean and standard deviation are calculated over a lookback period of 84 days. The user can specify the time span for which the number of overdoses are compared to the statistical calculation. If the number of overdoses over the designated time span exceeds the specified number of standard deviations above the mean over the past 84 days, an alert email will be sent to the user.

The "My Alerts" sub-tab shows all alerts generated by MiCelerity for the user. The sounded alerts listing can be sorted or filtered by the various columns present and can be exported for analysis.

Helpful Key System Functionality (Step by Step Guidance)

Functionality relevant to all users of system (ADMIN, LHJ, HCP)

Data: New Diagnosis

In addition to the Diagnoses that are automatically transmitted to MiCelerity, Diagnosis records may be created manually by the user. This can be done by going to Data, then selecting the New Diagnoses tab. Data entry fields that are highlighted in red (1) are required fields and must be entered. Data fields that are grey are automatically populated; data cannot be manually entered in these fields. The "New Notes" section refers to any information that is critical to interpreting the submitted data (e.g. "patient is homeless" or "patient overdosed while admitted for a different health condition") rather than clinical notes regarding the record.

Multiple ICD-10-CM codes that are associated with the same visit can be entered at the same time (2). To select an ICD-10-CM code, first filter the data by "Drug Type", then select the relevant description. The corresponding code will then appear in the ICD-10-CM section (2). You can select multiple codes within one drug type or select a different drug type to add a different drug ICD-10-CM code.

	♠ MiCelerity	in II Reports		C → Logout
	Diagnosis Listing Diagnosis	s Search New Diagnosis		
		New Di	agnosis	
	* Required field			
	Facility*:		Drug Type*: (j)	
	Facility		✓ Heroin ✓	1
_	Description*: (j)		ICD-10-CM Code*: (j)	
	 Poisoning by heroin, accidental (unintentio Poisoning by heroin, accidental (unintentio Poisoning by heroin, accidental (unintentio Poisoning by heroin, intentional self-harm, 	nal), initial encounter nal), subsequent encounter nal), sequela initial encounter	 T40.5X4A T51.91XA T40.1X1A 	
	Admission Date*: (j)		Discharge Date: (j)	
	Time(hh:mr	m a) 🗎 🕒	Time(hh:mm a)	
	Patient Information			
	First Namet: ()	Last Namet: ()	Middle Nerre: 0	
-	Patient Status*: (j)	Patient Status Date: (j)	Patient Disposition*: ①	
	Alive 🗸		Patient Disposition	
	Street: (j)	1	City: (j) County: (j)	
			County	~
	State: (j)	Zip: (1)	Mode of Arrival: (j)	
	Michigan 🗸		Mode of Arrival	

Home Phone: ()	Ext: (j)	Other Phone: ()	Ext: ①
Demographics			
Race*: (j)		Ethnicity*: ()	Sex*: (j)
 American Indian or Alaska Native Asian Black/African American Caucasian Hawailan or Pacific Islander Other Unknown 		Hispanic or Latino Not Hispanic or Latino Unknown	O Female Male O Other O Unknown
Date of Birth: () MM/DD/YYYY	Age: (j)	Age Unit:	v
Parent/Guardian First Name: ①	Last Name: (j)	Middle Name: ①	
New Notes if Applicable (j)			
		Save Cancel	

Functionality Relevant to ADMIN and LHJ Users

Data: Diagnosis Listing

The Diagnosis Listing page will display all diagnosis records currently in the system. Each ICD-10-CM diagnosis code entered for an individual will produce a row in the Diagnosis Listing table. Initially, records in the Diagnosis Listing table are automatically sorted by admission date in descending order.

Several options exist for searching for records. A previously saved search can be selected from the Saved Search List (1) (see Diagnosis Search section for details on creating a Saved Search), or records in the table can be filtered and sorted with the available columns in the table (2 and 3). The Diagnosis Listing table can be exported (4) to a csv file.

	Listing Diagnosis Seal	cn New Diagnosis					
Saved Search List		-	D	iagnosis Listing			
All Valid Diagnoses Displaying results 141-150 of 19129	found	(1) Select a menu (see	a saved search from the Diagnosis Search Section)	Can sort ea column in or descend	ach (4) Exp ascending records ling order	ort a CSV file o listed in the ta	f the Export ble
Admission Date	Diagnosis Status	ICD-10 Code o	Drug Class ø	Patient Name ¢	Facilit) •	Jurisdiction ¢	Diagnosis ID
From	0 Select -	0 Select -	0 Select -	First Name	0 Select -	0 Select -	Sort/Filter
To	(2) Selec	t search param available optic	neters from ons	Last Name	(3) After selecting parameters, click 'Sort/ Filter'. To reset click 'Clear Filter'	3	Clear Filter
12/04/2019	Valid	T40.601A	Opioid		PROMEDICA BIXBY HOSPITAL	Lenawee County	2370699
12/04/2019	Valid	T50.901A	Unspecified		MIDMICHIGAN MEDICAL CENTER - CLARE	Central Michigan District	2370631
12/04/2019	Valid	T40.7X1A	Cannabis		BORGESS PIPP HOSPITAL	Allegan County	2371010
12/04/2019	Valid	F11.99	Opioid-related disorder		PROMEDICA BIXBY HOSPITAL	Lenawee County	2368542
12/04/2019	Valid	F11.10	Opioid-related disorder		BEAUMONT HOSPITAL GROSSE POINTE	Detroit City	2371188
12/04/2019	Valid	T50.902A	Unspecified		BEAUMONT HOSPITAL FARMINGTON HILLS (FORMERLY BOTSFORD HOSPITAL)	Detroit City	2368460
12/04/2019	Valid	T50.902A	Unspecified		ST. MARY'S MERCY MEDICAL CENTER	Kent County	2373109
12/04/2019	Valid	T43.211A	Other		ST. MARY'S MERCY MEDICAL CENTER	Kent County	2373099
12/04/2019	Valid	F11.20	Opioid-related disorder		BEAUMONT HOSPITAL GROSSE POINTE	Detroit City	2368274
12/04/2019	Valid	F11.20	Opioid-related disorder		MUNSON MEDICAL CENTER	District 10	2368253

Data: Diagnosis Search

In the Diagnosis Search tab there are more filter options available (1). A user can enter the parameters that they are interested in searching and click the search button at the bottom of the page to view the results. The user also has the option to create a Saved Search (2- 5). After selecting the desired parameters, enter a name for the created search (2) (example: January Opioids in XX County) and hit the save button (3). Once the search has been saved, it will be available in the Saved Search List (4). The user can select a Saved Search from the Saved Search List, then click the Search button (5) to view the results.

Degroes lattry Dispose Settion Mer Degroes Dispose Settion CD-10 Code: Presence got assistance: Image Type: O Eng Class: Adversame of a status: Presence got assistance: Adversame of a status: O Eng Class: Adversame of a status: Presence got assistance: Adversame of a status: O Eng Class: Adversame of a status: Presence got assistance: Adversame of a status: Adversame of a status: O Eng Class: Adversame of a status: Adversame of a status: Adversame of a status: Adversame of a status: O Eng Class: Adversame of a status: Adversame of a status: Adversame of a status: Adversame of a status: O Eng Class: Adversame of a status: Adversame of a status: Adversame of a status: To D Eng Class: Adversame of a status: Paster Statu	f MiCelerity	⊙ Data	Admin	l Rep	ports					C+ Log
Event Search Diagnosis ID Diagnosis Status Generative Diagnosis Status Subar F1130 Pitto Citeria Patient Citeria Patient Citeria Control Bith Date: To Patient Citeria Discharge Date: To Discharge Date: Patient Citeria Discharge Date: Patient Citeria To Bith Date: To Patient Citeria Discharge Date: Patient Citeria To Addition: Patient Citeria Patient Citeria To Patient Citeria To Patient Citeria To Patient Citeria To Patient Citeria Discharge Date: To To Patient Citeria To <tr< th=""><th></th><th>Diagnosis Listin</th><th>g Diagno</th><th></th><th>New Diagnosis</th><th></th><th></th><th></th><th></th><th></th></tr<>		Diagnosis Listin	g Diagno		New Diagnosis					
Diagnosis ID Diagnosis Status CD-10 Code Postemic Conservation Second Status F11:10 F11:10 Postemic Conservation Second Status Diagnosis Status F11:10 Postemic Conservation Answer Diagnosis Status Postemic Conservation Postemic Conservation Answer Diagnosis Status Postemic Conservation Postemic Conservation Patient Criteria Postemic Conservation Patient Status: Postemic Conservation Data Criteria Discharging Date: To Discharging Date: To Data Criteria Discharging Date: To Discharging Date: To To Received Date: To To To To To To Agern Bary-Colors Patient Status: To To To To Received Date: To						Eve	nt Search			
In the second secon	Diagnosis ID				Diagnosis Status		ICD-10 Code:		Poisoning Classification:	
Particular Patient Criteria Patient Criteria <td></td> <td></td> <td></td> <td></td> <td>Cancelled Superseded Valid</td> <td></td> <td>F11.10 F11.120 F11.121</td> <td>Ŷ</td> <td>Not a poisoning Other Possible Probable</td> <td></td>					Cancelled Superseded Valid		F11.10 F11.120 F11.121	Ŷ	Not a poisoning Other Possible Probable	
Administratives Administratives Administratives Administratives Administratives Administratives Administratives Patient Criteria Patient D Patient Status: Avec Declarge Date: Patient D Patient Status: Avec Declarge Date: Patient D Patient Status: Avec Declarge Date: Patient D Patient Status: Avec Declarge Date: Patient Status: Avec Declarge Date: Patient Status: Avec Declarge Date: Patient Status: Patient D Patient Status: Avec Declarge Date: Patient Status: Patient Status: Patient Status: Patient Status: Patient Status: Patient D Patient Status: Patient Status: Patient D Patient Status: Patient D Patient Status: Patient Status: Patient Status: Patient Status: Patient D Patient Status: Patient D Patient Status: Patient D Patient Status: Patient Status: Patie	Drug Type:				O Drug Class:					
Patient Criteria Prist Name: Last Name: Patient ID: Aive Birth Date: To Date Criteria Date: To Date Criteria Admission Date: To Petient Date: To Date Criteria County: Admission Date: To Peceived Date: To To County: Adagen Bary County Bary County </td <td>4-Aminophenol de Alcohol Alpha-adrenorece</td> <td>rivatives ptor antagonists</td> <td></td> <td>$\hat{}$</td> <td>Antiepileptic and sedative-hypr Cannabis Cocaine Ethanol</td> <td>notic</td> <td></td> <td></td> <td></td> <td></td>	4-Aminophenol de Alcohol Alpha-adrenorece	rivatives ptor antagonists		$\hat{}$	Antiepileptic and sedative-hypr Cannabis Cocaine Ethanol	notic				
First Name: Lets Name: Patient ID: Patient Status: Nive Died Bith Date: Image: To Decharge Date: Image: To Decharge Date: Image: To Decharge Date: Image: To Decharge Date: Image: To Patient Status: Image: To Decharge Date: Image: To Decharge Date: Image: To Patient Status: Image: To Decharge Date: Image: To Patient Status: Image: Image: Patient Status: Image: Image: Image: Image: Image: To Image: Image: Image: To	Patient Criteri	а								
Bith Date: Bith Date: Date Criteria Admission Date: To Beceived Date: To Beceived Date: To Ceographic Criteria Compression Date: To To Addression Date: To Beceived Date: To Ceographic Criteria Compression Date: To To Addression Date: To Beceived Date: To Concord Addression Date: To Beceived Date: To Concord Addression Date: To Pacewed Date: Pacewed Date: Pacewed Date: Pacewed Date: Pacewed Date:	First Name:				Last Name:		Patient ID:		Patient Status:	
Bith Date: Date Criteria Admission Date: To Bith Date:									Alive Died	
Date Criteria Admission Date: Image: To Received Date: To County: Alegan County Bary-Eaton Section: County: Adema Agenn Apenna Section: Saved Search Saved Search List Saved Search Saved Search Saved Search List <	Birth Date:			То						
Date Criteria Admission Date: Admission Date: To Received Date: To Received Date: To Adegan County Bary-Eaton Saved Search Saved Search Saved Search Saved Search Saved Search Saved Search Lett Saved Search Saved Search Saved Search Criteria from the available options. (2) Name the search and Click (3) 'Saved'. The Named Search you created will appear in the (4) Saved Search List,				10						
Admission Date: To Received Date: To County: Alegan County Barry-Eaton Barry-Eat	Date Criteria									
Received Date: To County: Allegan Countly Barry-Eaton Search Name: 2 Saved Search 4 5 3 <td>Admission Date:</td> <td></td> <td></td> <td>То</td> <td></td> <td></td> <td>Discharge Date:</td> <td>To</td> <td></td> <td></td>	Admission Date:			То			Discharge Date:	To		
Secrete Date: County: Jurisdiction: Region: Facility: Alogan I Alegan County Barry-Eaton Barry-Eaton Barry-Eaton I 2 horth I Appen I Parry-Eaton I 2 horth I Appen I Parry-Eaton I 2 horth I 16 840 1.113883 3.137 4.4000.40 I Saved Search I I Parry-Eaton I I 16 840 1.113883 3.137 4.4000.40 I I 16 840 1.113883 3.137 4.4000.40 I I 16 840 1.113883 3.137 4.4000.40 I I I 16 840 1.113883 3.137 4.4000.40 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I				10				I		1
Geographic Criteria County: Aursdiction: Region: 1 2 16 480 1.113883 3.137 4.4000.10 2.16 480 1.113883 3.137 4.4000.40 2.16 480 1.113883 3.137 4.4000.40 3.16 480 1.113883 3.137 4.4000.40 3.16 480 1.113883 3.157 4.4000.40 3.16 480 1.113883 4.113484 4.113484 3.174 4.113484 4.11444 4.11444 4.11444 4.11444 4.11	Received Date:			То						
Geographic Criteria County: Jurisdiction: Region: 1 Alegan Image: South State 1 2 Appring Image: South State 1 2 Saved Search Lest: -saved Search Lest: -saved Search Default Search Saved Search Lest: -saved Search Lest: -saved Search Lest: -saved Search (1) Select search criteria from the available options. 5 3 Oeldete Cancet (2) Name the search and click (3) 'Save'. The Named Search ust; Saved Search List; -saved Search List; -saved Search List;										
County: Juridiction: Region: Facility: Alcona Alegan County Barry-Eaton 1 Barry-Eaton South 2 16.840.1113883.3.137.4.400.400 Saved Search 3 5 2 Saved Search Name: 2 -saved Search Default Search (1) Select search criteria from the available options. 5 3 (2) Name the search and click (3) 'Save'. The Named Search you created will appear in the (4) Saved Search List, 5 3	Geographic Crite	ria								
Alcona Alegan County BaryEation Alegan Alegan County BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEation BaryEatio	County:		urisdiction:			Region:		Facility:		
Alignan Apena Bay County Benzie-Leelanau 2 South 2 16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:137 4:400 80 2:16 840 1:113883 3:117 4:400 80 2:16 840 1:113883 3:117 4:400 80 2:16 840 1:113883 3:117 4:400 80 2:16 840 1:113883 3:117 4:400 80 2:16 840 1:113883 3:117 4:400 80 2:16 840 1:113883 3:117 4:400 80 2:16 840 1:113883 3:117 4:400 80 2:16 840 1:113883 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:11114 1:11114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:1114 1:11	Alcona	•	Allegan C	ounty	^	1 2 North	0	2.16.840.1.113883.3.137.4.4000.10		^
Save Search Saved Search Name: 2 Saved Search List. -saved Search - 4 Cancel (1) Select search criteria from the available options. (2) Name the search and click (3) 'Save'. The Named Search you created will appear in the (4) Saved Search List,	Allegan Alpena	~	Bay Coun Benzie-Le	ly elanau	~	2 South	~	2.16.840.1.113883.3.137.4.4000.40 2.16.840.1.113883.3.137.4.4000.60 2.16.840.1.113883.3.3823.402001		~
Saved Search Name: 2	Save Search									
2 -saved Search-4 Cancel (1) Select search criteria from the available options. 5 3 (2) Name the search and click (3) 'Save'. The Named Search you created will appear in the (4) Saved Search List, 5	Saved Search Name:	_		Sa	ved Search List		Default Search			
(1) Select search criteria from the available options. Save Detele Cancel (2) Name the search and click (3) 'Save'. The Named 3 Save'' Save''' Search you created will appear in the (4) Saved Search List, Save''' Save'''' Save''''''''''''''''''''''''''''''''''''		2			-Saved Search 4	~				
(2) Name the search and click (3) 'Save'. The Named Search you created will appear in the (4) Saved Search List,	(1) Select search	criteria from	the ava	ilable oj	ptions.	Search Save	Delete Cancel			
Search you created will appear in the (4) Saved Search List,	(2) Name the sea	irch and click	<mark>(3)</mark> 'Sav	e'. The I	Named					
and can then he used by colocting it in the many and	Search you creat	ed will appea	r in the	(4) Save	ed Search List,					

Reports: Trends

The home page for MiCelerity is the Trends tab within the Reports tab. The top half of the page shows the Visit Counts graph. At the bottom of the Trends page is the Visits by Facility table. The number of visits in a facility during a selected time range, either a number of days or between specific dates, will be displayed. It is important to note that the time range for the graph and the table are independent of each other. Changing the time range for one will not affect the other.



16 MiCelerity User Guide

Time Range Last 7 Days	~	From Date (mm/dd/yyy) 11/28/2019	()		To Date (mm/dd/ 12/05/2019	(עעע		(5) Data can be viewed within a range days, or between two
Facility ¢	Facility	Jurisdiction ¢		Facility County ¢		Total Messages Recei	velo	specified dates
HFHN TROY	Oakland	County		Oakland		6	T	(6) Each column can be
BURLINGTON	Statewic	le				3		sorted in ascending or
HFM FRASER	Macomb	County		Macomb		1	6	descending order
KITH HAVEN	Statewic	le				4		
HFHN CANTON	Wayne 0	County		Wayne		4		
HFHN TAYLOR	Wayne (County		Wayne		9		
HFWY OB GYN	Statewic	le				1		
BRIARWOOD 03	Statewic	le				3		
BRIARWOOD 05	Statewic	le				3		
BRIARWOOD 10	Statewic	le				1		

Reports: Demographics

The Demographics tab can be used to generate aggregate reports with parameters selected by the user. Reports may be exported as a PDF or CSV file. Only the parameters selected on this page will be present in the exported aggregate report.

Lin	ne Listing Dem	ographics Ti	rends			
٦			Demogra	ohics		
Time Period						
Month		Year (yyyy)				
December	~	2019		Use the rac	dio buttons to specify <mark>(1)</mark> the	desired
Week (www.www)				time period	d, (2) whether the selected tir	me
49-2019		(12/01/2010 #	to 12/07/2019)	discharge d	date, and (4) either Drug Type	e or Drug
		(12/01/2013)	12/07/2013)	Class of int	terest. Use the dropdown mer	nus (3) to
		To Date (mass	a fail all to a second	clubs of file		
O From Date (mm/dd/yyyy)	-	To Date (mm	n/dd/yyyy)	select the c	diagnosis and patient options	
 From Date (mm/dd/yyyy) 12/05/2019 	1	To Date (mm 12/05/2019	9 📾	select the c	diagnosis and patient options	
O From Date (mm/dd/yyyy) 12/05/2019		To Date (mm 12/05/2019	9 ≅	select the c	diagnosis and patient options	
From Date (mm/dd/yyyy) 12/05/2019 Time Period Based Or	n	To Date (mm 12/05/2019	n/dd/yyyy) 9 🖀	select the c	diagnosis and patient options	
From Date (mm/dd/yyyy) 12/05/2019 Time Period Based On Received Date	n	To Date (mm 12/05/2019	O Admission Date	select the c	diagnosis and patient options	
From Date (mm/dd/yyyy) 12/05/2019 Time Period Based On Received Date	n	To Date (mm 12/05/2019	Admission Date	select the c	diagnosis and patient options	
From Date (mm/dd/yyyy) 12/05/2019 Time Period Based On Received Date Diagnosis and Patient	n	To Date (mm. 12/05/2019	O Admission Date	select the c	diagnosis and patient options	
 ○ From Date (mm/dd/yyyy) 12/05/2019 Time Period Based Or ● Received Date Diagnosis and Patient Diagnosis Status 	n	To Date (mm. 12/05/2019	Admission Date	select the o	diagnosis and patient options Olischarge Date Poisoning Classification:	
From Date (mm/dd/yyyy) 12/05/2019 Time Period Based Or	n	To Date (mm. 12/05/2019	Admission Date Patient Status -Patient Status-	select the o	Discharge Date Poisoning Classification: Not a poisoning	
 From Date (mm/dd/yyyy) 12/05/2019 Time Period Based Or Received Date Diagnosis and Patient Diagnosis Status Diagnosis Status 	n	To Date (mm. 12/05/2019	Admission Date Patient Status -Patient Status-	select the c	O Discharge Date Poisoning Classification: Not a poisoning Other Possible	
O From Date (mm/dd/yyyy) 12/05/2019 Time Period Based On	n	To Date (mm. 12/05/2019	Admission Date Patient Status -Patient Status-	select the c	Obischarge Date Poisoning Classification: Not a poisoning Other Probable	
From Date (mm/dd/yyyy) 12/05/2019 Time Period Based Or © Received Date Diagnosis and Patient Diagnosis Status Diagnosis Status IcD-10 Code:	n	To Date (mm. 12/05/2019	Admission Date Admission Date Patient Status -Patient Status- Drug Type	select the o	O Discharge Date Poisoning Classification: Not a poisoning Other Probable O Drug Class:	
C From Date (mm/dd/yyyy) 12/05/2019 Time Period Based Or Received Date Diagnosis and Patient Diagnosis Status Diagnosis Status ICD-10 Code: F11.10 F	n	To Date (mm. 12/05/2019	Admission Date Admission Date Patient Status -Patient Status- Drug Type 4-Aminophenol derivatives	select the o	Discharge Date Discharge Date Poisoning Classification: Not a poisoning Other Probable Drug Class: Antiepileptic and sedative-hy	/pnolic

5	Geographic Area	I.				
	● State Wide Defa	ult Selection	County Alcona Alger Allegan Alpena		Region 1 2 North 2 South 3	Ç
	O Jurisdiction Allegan County Barry-Eaton Bay County Benzie-Leelanau Demographics Va	ariable 1	○ zip		O City Adrian Albion Algonac Allegan	¢
	• Sex	○ Age Group	O Race	O Ethnicity		
6	Demographics Va	ariable 2				
	○ Sex	○ Age Group	○ Race	O Ethnicity	None	
	Select up to 2 dem variables to stratif	ographic y the report <mark>(6)</mark>	7 PDF	Report CSV Report		
			(7) Reports can be exp in aggregate, based or	orted as PDF or CSV files. Re the demographic variables	esults are selected.	

Reports: Line Listing

The Line Listing tab can be used to generate reports with line level data. Reports can be exported as a PDF or CSV file.

		Line Listin	g		
Time Period					
Month:	Year:		Use the radio buttons to spe	cify (1) time period, (2) what	
December 🗸	2019		the time period is based on,	and (4) the geographic area.	
O From Date (mm/dd/yyyy):	To Date (mm/dd/yyyy):		Note that the default selectio	n for geographic area is State	e.
12/05/2019	12/05/2019		Use the dropdown menus	(3) to select the Diagnosis ar Status	nd
Entry Date Event and Patient Status	O Received Date	⊖ Ad	mission Date	O Discharge Date	
Diagnosis Status	Patient Status:				
Diagnosis Status 🗸	Patient Status	~			
Geographic Area					
	O Jurisdiction:	 State 	nte: Default Selection	O Zip Code:	
O County:	Allegan County	Mic	:higan 🗸		
O County:	Barry-Eaton				
O county: Alcona Alger Allegan Alpena	Barry-Eaton Bay County Benzie-Leelanau				
County: Alger Alger Alger Algen V Praclity:	Barry-Eaton Bary-Eaton Bay County Benzie-Leelanau		ψ.		
O County: Alcona Ager Alger Apera O Facility: 2 16 840 113883 3137 4 4000 10 2 16 840 113883 3137 4 4000 40	Barry-Edon Bary-Cathon Bay County Benzie-Leelanau		y: ian ion		

5	Event				
	ICD-10 Code: F11 10 F11 120 F11 121 F11 122 Display Column	O Poisoning Classification: Not a poisoning Other Possible Probable	O Drug Ty 4-Aminin Acconol Alpha-a Aminog	ype: ophenol derivatives drenoreceptor antagonists lycosides	O Drug Class: Antieplieplic and sedative-hypnotic Canabia Cocaine Ethanol
]	I Event ID I Admission Date I Patient Status	☑ Event Status ☑ Discharge Date ☑ Address	☑ Drug Type ☑ Received Date ☑ County	☑ ICD-10 Code ☑ Intentionality ☑ Jurisdiction	I Entry Date I Name I Date of Birth
	Age Poisoning Classification	⊠ Race ⊠ Drug Class	7 PDF Report CSV Report	M Sex	K Facility

Functionality Relevant to ADMIN Users

The Admin and its three subtabs (Work Queue, Facilities, and Users) are only available to users with administrator privileges.

Managing the Work Queue

The Work Queue tab will display a list of potential duplicate messages received by the system that are not able to be automatically resolved. An Admin user is able to manually resolve the pending work queue items.

	A MiCelerity	O Data	Admin	I Reports				€ Logout
				Pending Work Que	ue			
	Date Received 🜩	Patient Nar	ne 🜩	Facility \$	Jurisdiction 🗢	Туре 🗢	ICD-10-CM Code	2
١	From	First Name		0 Select -	0 Select -			Sort/Filter
1	To	Last Name		(1) Can search for items in the Pending work Queue using the drop-down boxes. Select search parameters from the available options Each column may be sorted in ascending or descending order.				Clear Filter
Н	+			No Items in Work Queue				(2) Click on 'Sort/ to apply your sele
line d to Per	e-listing of messages th be resolved will appe nding Work Queue tabl	at ar in e at						To return to the d select 'Clear Filter

To resolve items that appear in the Pending Work Queue table, click the 'Resolve' button at the end of the row of the record of interest. The Patient Deduplication screen will pop up. Look at the available information for the patient(s) in the rows and decide if the records should be merged or not. If the record is confirmed as a duplicate, click the 'Merge' button. If the record is determined to not be a duplicate, click the 'No Merge' button. If 'Merge' or 'No Merge' are selected, a confirmation message will be displayed telling the user that the queue item has been resolved. To leave the Patient Deduplication screen without making any changes, click the 'Cancel' button. If 'Cancel' is selected, the record will remain in the Pending Work Queue.

Work 9	Queue Facilities Users						
		Pendir					
isplaying results 1-10 of 318 foun/	d	T Chui					
Date Received ¢	Patient Name ¢	Facility ¢		Jurisdiction ¢	Type 🜩	ICD-10-CM Code	
From	First Name	0 Select -		0 Select -			Sort/Filter
го 🗃	Last Name			(1) Click the 'Resol	ve' button of the	record	Filter
02/11/2020	Patient Name 1	Facility Name 1		you would like to o	Geocode	T50.901A	Resolve
02/11/2020	Patient Name 2	Facility Name 2		Genesee County 1	Patient Dedup	F12.988	Resolve
02/11/2020	Patient Name 3	Facility Name 3		Jackson County	Patient Dedup	T45.8X1D	Resolve
)2/11/2020	Patient Name 4	Facility Name 4		Macomb County	Patient Dedup	T50.901A	Resolve
)2/11/2020	Patient Name 4	Facility Name 4		Macomb County	Patient Dedup	T50.901A	Resolve
MiCelerity O Data	Admin II Reports	Patie	ent Deduplication				G• La
4		Faux		and Dat	of Risth	Gander	
Aerge S	score	First Name Middle	e Name Last N	ame Dat	of Birth	Gender	
	77.0%	First Name 1			5 D D	Male	
		• If	o merge the records. the record is not a dupli	cate click the 'No Mei	ge' button.		
		• Fi • Ei tt • Make no • C ss ir	o merge the records. the record is not a dupli ither of these actions wil ne Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making an n the queue.	cate click the 'No Mer I resolve the record a screen, and the record o return to the Pendir y changes. The record	ge' button. nd return you to d will no longer b g Work Queue will still be lister	be d	
 Once the record has be sturned to the Pending W nessage will appear at the 	een resolved, the user wi /ork Queue and a confirm e top in green.	I be nation	o merge the records. The record is not a dupli tither of these actions wil- ne Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making an a the queue.	cate click the 'No Mer I resolve the record a screen, and the record o return to the Pendir y changes. The record	ge ^r button. nd return you to d will no longer b g Work Queue will still be liste	d	
4) Once the record has be eturned to the Pending W hessage will appear at the MiCelerity ○ □	een resolved, the user wi /ork Queue and a confirm e top in green. Data 1 Admin 1 Rej	I be hation	o merge the records. The record is not a dupli tither of these actions wil- ne Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making and the queue.	cate click the 'No Mer I resolve the record a screen, and the record o return to the Pendir y changes. The record	ge ^r button. nd return you to d will no longer b g Work Queue will still be lister	d	C∙ Logo
4) Once the record has be sturned to the Pending W hessage will appear at the MiCelerity ◎ □	ten resolved, the user wi Jork Queue and a confirr e top in green. Jata 1 Admin 1 Rey Work Queue Facilities U	I be hation	a merge the records. The record is not a dupli ticher of these actions wil he Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making an h the queue. http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://www.action.com/ http://wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	cate click the 'No Mei I resolve the record al screen, and the record o return to the Pendir y changes. The record	ge' button. nd return you to d will no longer b g Work Queue will still be liste	d	C• Logo
 4) Once the record has be eturned to the Pending W nessage will appear at the MiCelerity ● C A MiCelerity ● C Cueue Item has been resonance 	ten resolved, the user wi fork Queue and a confirm top in green. Data Admin Jak Rej Work Queue Facilities U olved for patient 5937038 and ev	 If E It Make no C Sers Per nt 5937049. 3 other hidden queue item	a merge the records. The record is not a dupli ticher of these actions wi he Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making an the queue. http://www.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communication.communicatii.communic	cate click the 'No Mei I resolve the record al screen, and the record o return to the Pendir y changes. The record	ge' button. nd return you to d will no longer b g Work Queue will still be lister	d	C• Logo
 4) Once the record has be eturned to the Pending W nessage will appear at the MiCelerity O I 4 Queue Item has been results Cueue Item has been results 	een resolved, the user wi /ork Queue and a confirr e top in green. Data Admin Jah Rej Work Queue Facilities U olved for patient 5937038 and ew 17 found	I be hation orts sers Per t 5937049. 3 other hidden queue item	s merge the records. The record is not a dupli ticher of these actions wi he Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making an the queue. hding Work Queue (s) were resolved for the patient.	cate click the 'No Mei I resolve the record a screen, and the record o return to the Pendir y changes. The record	ge' button. nd return you to d will no longer b g Work Queue will still be lister	d ICD-10-CM	C• Logo
 4) Once the record has been eturned to the Pending Winessage will appear at the MiCelerity ■ MiCelerity ■ Cueue Item has been results ■ Displaying results 1-10 of 31 ■ Date Received ● 	een resolved, the user wi /ork Queue and a confirm e top in green. Data 1 Admin 1 Rej Work Queue Facilities U alved for patient 5937038 and ew 17 found Patient Name e	I be hation Per t 5937049. 3 other hidden queue item	a merge the records. The record is not a dupli tither of these actions wil- he Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making an a the queue. and the queue. Moding Work Queue (s) were resolved for the patient.	cate click the 'No Mer I resolve the record a screen, and the record o return to the Pendir y changes. The record	ge' button. nd return you to d will no longer b g Work Queue will still be lister Type +	d ICD-10-CM Code	C• Logo
 4) Once the record has be eturned to the Pending W nessage will appear at the MiCelerity ■ MiCelerity ■ Constant ■ MiCelerity ■ Constant ■ Constant<td>een resolved, the user wi /ork Queue and a confirm e top in green. Data Admin Ja Rej Work Queue Facilities U olved for patient 5937038 and even olved for patient 5937038 and even 7 found Patient Name •</td><td> If E It Make no C Signature Signature Signature Per Per Signature Signature</td><td>a merge the records. The record is not a dupli tither of these actions wil- ne Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making and and the queue. and the queue.</td><td>cate click the 'No Mei I resolve the record al screen, and the record o return to the Pendir y changes. The record u changes. The record u changes of the the the the the the the the the the</td><td>ge' button. hd return you to d will no longer b g Work Queue will still be lister Type e</td><td>d ICD-10-CM Code</td><td>C• Logo</td>	een resolved, the user wi /ork Queue and a confirm e top in green. Data Admin Ja Rej Work Queue Facilities U olved for patient 5937038 and even olved for patient 5937038 and even 7 found Patient Name •	 If E It Make no C Signature Signature Signature Per Per Signature Signature	a merge the records. The record is not a dupli tither of these actions wil- ne Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making and and the queue. and the queue.	cate click the 'No Mei I resolve the record al screen, and the record o return to the Pendir y changes. The record u changes. The record u changes of the	ge' button. hd return you to d will no longer b g Work Queue will still be lister Type e	d ICD-10-CM Code	C• Logo
 4) Once the record has be turned to the Pending W nessage will appear at the MiCelerity O I 4 Queue Item has been results Displaying results 1-10 of 31 Date Received + From To 	een resolved, the user wi /ork Queue and a confirm e top in green. Jata 1 Admin 1 Rey Work Queue Facilities U olved for patient 5937038 and even 7 found Patient Name e First Name	I be ation Facility ¢ 0 Select ▼ Select ▼ 1 fi 1 be 1 b	a merge the records. The record is not a dupli tither of these actions will he Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making an a the queue. http://www.content. (s) were resolved for the patient.	cate click the 'No Mei I resolve the record al screen, and the record o return to the Pendir y changes. The record Jurisdiction = 0 Select •	ge' button. nd return you to d will no longer b g Work Queue will still be lister Type ¢	d ICD-10-CM Code	C• Logo Sort/Filte Clear Filter
 4) Once the record has be eturned to the Pending W nessage will appear at the MiCelerity O I 4 Queue Item has been results 1-10 of 31 Date Received e From To 02/11/2020 	een resolved, the user wi /ork Queue and a confirm top in green. Data Admin In Re Work Queue Facilities U Work Queue Facilities U olved for patient 5937038 and ev 7 found Patient Name • First Name Patient Name 1	I be hation	s merge the records. The record is not a dupli tither of these actions will he Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making an a the queue. hding Work Queue (s) were resolved for the patient.	cate click the 'No Meri I resolve the record and screen, and the record o return to the Pendir y changes. The record Jurisdiction • 0 Select • Statewide	ge/ button. hd return you to d will no longer b ig Work Queue will still be lister Type e Geocode	ICD-10-CM Code IT50.901A	C Logo
 4) Once the record has be eturned to the Pending W nessage will appear at the MiCelerity ● I 4 Queue Item has been results 1-10 of 31 Date Received ● From To 02/11/2020 02/11/2020 	een resolved, the user wi /ork Queue and a confirm e top in green. Data	I be nation Facility • Facility Name 1 Facility Name 2 Facility Name 2	a merge the records. The record is not a dupli tither of these actions wil- he Pending Work Queue sted in the queue. Changes lick the 'Cancel' button t creen without making and a the queue. and and the queue. (s) were resolved for the patient.	cate click the 'No Mer I resolve the record at screen, and the record o return to the Pendir y changes. The record Jurisdiction • 0 Select • Statewide Genese County	ge' button. hd return you to d will no longer b g Work Queue will still be lister Type + Geocode Patient Dedup	Image: Description of the section of the se	C+ Logo Sort/Filte Clear Filter Resolve

Facilities

The Facilities tab displays a list of available facilities in MiCelerity. Users can sort existing facilities in the list, and facility information may be edited on this page by an administrative user.

	Work Queue Facilities	Users	
		Facilities	
0	Displaying results 1-10 of 871 found	(1) Select filters and sorting	
	Date Added 🜩	Display Name options to search facilities.	ISO \$
	From To	Display Name 2 (2) Type in the name of a specific facility to search for it.	ISO (3) Click on 'Sort/Filter' to apply your selections. To return to the default, select 'Clear Filter'. Filter
	10/03/2019	Facility Name	2.16.840.1.113883.3.5416.1.4670 Edit
	10/03/2019	Facility Name	2.16.840.1.113883.3.5416.1.2837 Edit
	10/03/2019	Facility Name	2.16.840.1.113883.3.5416.1.2889 Edit
	10/03/2019	Facility Name	2.16.840.1.113883.3.5416.1.2838
	10/03/2019	Facility Name	2.16.840.1.113883.3.5416.1.2840 (4) To edit the information for a facility, click the Edit button
	10/03/2019	Facility Name	2.16.840.1.113883.3.5416.1.2887 in the row of that facility.
	10/03/2019	Facility Name	2.16.840.1.113883.3.5416.1.2890 Edit
	10/03/2019	Facility Name	2.16.840.1.113883.3.5416.1.7866 Edit
	10/03/2019	Facility Name	2.16.840.1.113883.3.5416.1.2839 Edit
	10/03/2019	Facility Name	2.16.840.1.113883.3.3823.258001 Edit

To edit the information of a facility in the list, select the 'Edit' button in the row of that facility.

A MiCelerity	🛈 Data	L Admin	II Reports				G	Logout
	Work Qu	eue Facilit	ies Users					
				Fa	cility			
ISO	L L	2.16.840.1.	113883.3.5416.1.4670					
Facility Name		Facility	Name					
Street Address		1234 A	ddress Ln.					
City		City						
County		County						~
State		Michigan	I					~
Zip								
Contact Person								
Contact Phone								
		-	 Make all desired edits to the facility information, then click Save to apply the edits. 	2 Save	Cancel			

Users

Similar to the Facilities tab, the Users tab displays all users in MiCelerity.

_	↑ MiCelerity O Data Admin	Jt Reports	To disp the 'Sh	olay inactive users, check now Inactive' box.	C+ Logout
	Work Queue Facilitie	s Users			
		Use	rs		
	Displaying results 1-10 of 13 found			\	
	Name 숮	MDSS User Name 🗢	Role ¢	Jurisdiction	\
1	First Name Last Name (1) Select filters and sorting	User Name (2) Can type in the name of a specific person or	No Access Administrator Health Care Provider Local Health Jurisdiction Team (3) Click on 'Sort/I	Allegan County Barry-Eaton Bay County Benzie-Leelanau	Show Inactive Sort/Filter Clear Filter
l	options to search Users.	username to search for it.	To return to the d	efault, select 'Clear Filter'.	
	Last Name, First Name	UserName	Administrator	Statewide	Edit
	Last Name, First Name	UserName	Administrator	Statewide	Edit
	Last Name, First Name	UserName	Administrator	Statewide	Edit 4
				(4) To a faci in the	edit the information for ility, click the Edit button e row of that facility.

To edit the information of a user in the list, select the 'Edit' button in the row of that user (4 in the image above). Users can update their names, emails or activity status as needed. Only Admin-level users can update the access level of users in the 'MiCelerity Role' field.

(1) Ente	er/ update the User Info. Fields highlighted in red are red	quired.	
	♠ MiCelerity	3	C• Logout
	Work Queue Facilities Users		
		User	
	User Info		
↓ I	First Name*	Middle Name	Last Name*
1-	User First Name		User Last Name
	User Name	Email	
	UserName	Email not available	2 Active
	MiCelerity Role and Privileges		
	MiCelarity Role	ı (2) Be sure that the 'Active' box is checked for all active users. If a
3	Administrator V	ι	iser becomes inactive, uncheck the box and save the changes.
	3) Only a user with administrator rights		(4) Click the Save button to save all
r	nay update the MiCelerity Role.	Save Cancel	wish to cancel your changes.
	User Activity		
	Filter Clear Filter (5) Can view user activity. Sel	ect parameters in the Time, s. and click the Filter button.	
_	Time ¢	Action \$	Entry By 🜩
5 -	From	Action	Entry By
6	→ 01/16/2020 1:14 PM	User Changed	UserName
	(6) User activity will be line-listed in the table at the bo	ottom of the page.	



User Account Access Request

MiCelerity is the **drug poisoning reporting system** for MDHHS. Each qualified organization can request up to three MiCelerity User Accounts. Please submit your completed form to <u>MDHHS-</u> <u>MODAsurveillance@michigan.gov</u> for approval.

	Requestor li	nformation	
Do you have an activ MDSS account?	re □Yes □No	Account type request:	 Local health department user Healthcare facility user MDHHS user
Organization:			
Name:		Title/role:	
Email address:		Work phone:	
Provide a brief descr access to MiCelerity:	iption of why you are requesting		
Signature:		Date:	
	Access Determinatio	n: MDHHS U	se Only
MiCelerity Admin na	me:		Approved: □ Yes □ No
Signature:		Date:	
Request	Yes No Not applicable	Date completed:	