



Data for Action: How can NHSN Data be Used to Guide Prevention Efforts in Long-Term Care Facilities?

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Data Analyst

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LEARNING OBJECTIVES

- LabID Event Categorization
 - CDI
 - MDRO
- Data Quality Checks
 - Resolving Alerts
- Data Analysis
 - Generating Datasets
 - NHSN reports
 - Line Listing
 - Rate Tables

LABID EVENT CATEGORIES

LabID Event Categorization

NHSN application categorizes all LabID events based on:

- **Specimen collection date** relative to the **date of current admission** to facility
 - Community onset (CO) labID events
 - Long term care facility onset (LO) labID events
 - Acute care transfer long term care facility onset (ACT-LO)

Community-Onset (CO) and Long Term Care-Onset (LO) LabID Events

Admission date				
February 4th	February 5th	February 6th	February 7th	February 10th
day 1	day 2	day 3	day 4	day 9
Community-onset (CO)			Long-term Care Facility-onset (LO)	

Acute Care Transfer Long Term Care Facility Onset (ACT-LO)

Event Information

Event Type *: LABID - Laboratory-identified MDRO or CDI Event Date of Event

Specific Organism Type *:

Specimen Body Site/System *:

Specimen Source *:

Resident Care Location *:

Primary Resident Service Type *:

Has resident been transferred from an acute care facility in the past 4 weeks *?

Documented evidence of previous infection or colonization with this specific organism type from a previously reported N-LabID Event in any prior month? No

- Acute care Facilities
 - Hospital
 - Long-term acute care hospital
 - Acute inpatient rehabilitation facility
- Select “Yes” if the resident has been an inpatient of an acute care facility and was directly admitted to your facility in the past four weeks, otherwise select “No”.

ADDITIONAL LABID EVENT CATEGORIZATION FOR CDI

NHSN application further categorizes CDI LabID events based on:

- **Current specimen collection date** relative to the **date of a prior LabID event**
 - Incident labID event
 - Recurrent labID events

REVIEW QUIZ

Resident ID	Current Admit Date	CDI Event Date (i.e., date of specimen collection)	Organism	Categorization
2390	06/01/2015	06/01/2015	CDI	Incident
2390	06/01/2015	07/09/2015	CDI	Recurrent
2390	06/01/2015	11/01/2015	CDI	Incident

DATA QUALITY CHECKS

Resolving Alerts

Data Quality Checks

Analysis tip: Make sure to clear all relevant alerts before analyzing your data

- Alerts appear on NHSN home page
- Automatic checks in NHSN that remind you of incomplete or missing data
- Most common sources for alerts for LTCF are summary data forms and incomplete UTI events
- Alerts must be resolved before data are considered complete

The screenshot shows the NHSN Long Term Care Facility Component Home Page. On the left is a navigation menu with the following items: NHSN Home, Alerts (highlighted with a green arrow), Reporting Plan, Resident, Event, Summary Data, Surveys, Analysis, Users, Facility, Group, and Logout. The main content area is titled 'NHSN Long Term Care Facility Component Home Page' and features a section for 'COMPLETE THESE ITEMS' and 'ALERTS'. The alerts are displayed in four colored boxes: 8 Missing Events (red border), 4 Incomplete Events (yellow border), 52 Missing Summaries (purple border), and 2 Incomplete Summaries (green border). A hand cursor is pointing at the '8 Missing Events' box. At the bottom, there is a confidentiality notice: 'Assurance of Confidentiality: The voluntarily provided information obtained in this surveillance system that would permit identification of any individual for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 179B and 179D of the HIPAA Privacy Rule.'

Alert Category	Count
Missing Events	8
Incomplete Events	4
Missing Summaries	52
Incomplete Summaries	2

Data Quality Checks

Resolving alerts



Incomplete/Missing List

Missing
Events

Incomplete
Events

Missing
Summary
Data

Incomplete
Summary
Data

In-plan denominators reported for these locations with no associated events.

[Print Form](#)

Page 1 of 1 10

Month/Year	Alert Type	Event Type/Pathogen	Summary Data Form Type	Report No Events
04/2016	Summary but no events	UTI	LTC.DENOM	<input type="checkbox"/>
04/2016	Summary but no events	LABID - MRSA	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - VRE	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CEPHRKLEB	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREECOLI	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREKLEB	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREENTERO	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - ACINE	MDRO	<input type="checkbox"/>

Page 1 of 1 10 View 1 - 8 of 8

Save

Reset

Data Quality Checks

- Resolving alerts

Page 1 of 1 10

Month/Year	Alert Type	Event Type/Pathogen	Summary Data Form Type	Report No Events
04/2016	Summary but no events	UTI	LTC DENOM	<input type="checkbox"/>
04/2016	Summary but no events	LABID - MRSA	MDRO	<input checked="" type="checkbox"/>
04/2016	Summary but no events	LABID - VRE	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CEPHRKLEB	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREECOLI	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREKLEB	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREENTERO	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - ACINE	MDRO	<input type="checkbox"/>

Page 1 of 1 10 View 1 - 8 of 8



Data Quality Checks

- Resolving alerts

Missing Events Incomplete Events Missing Summary Data Incomplete Summary Data

Alert
Missing Event data updated successfully. with no associated events. [Print Form](#)

OK

Month/Year	Alert Type		Summary Data Form Type	Report No Events
04/2016	Summary but no events	UTI	LTC DENOM	<input type="checkbox"/>
04/2016	Summary but no events	LABID - VRE	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CEPHRKLEB	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREECOLI	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREKLEB	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREENTERO	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - ACINE	MDRO	<input type="checkbox"/>

Page 1 of 1 10

View 1 - 7 of 7

Save Reset

Data Quality Checks

- Resolving alerts

In-plan denominators reported for these locations with no associated events.

[Print Form](#)

Month/Year	Alert Type	Event Type/Pathogen	Summary Data Form Type	Report No Events
04/2016	Summary but no events	UTI	LTC.DENOM	<input type="checkbox"/>
04/2016	Summary but no events	LABID - VRE	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CEPHRKLEB	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREECOLI	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREKLEB	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - CREENTERO	MDRO	<input type="checkbox"/>
04/2016	Summary but no events	LABID - ACINE	MDRO	<input type="checkbox"/>

[Save](#) [Reset](#)

Data Quality Checks

NHSN Home

- Alerts
- Reporting Plan ▶
- Resident ▶
- Event ▶
- Summary Data** ▶
 - Add
 - Find
 - Incomplete**
- Surveys ▶
- Analysis ▶
- Users ▶
- Facility ▶
- Group ▶
- Logout

Incomplete/Missing List

Missing Events Incomplete Events Missing Summary Data Incomplete Summary Data

In-plan denominators reported for these locations with no associated events. [Print Form](#)

Month/Year	Alert Type	Event Type/Pathogen	Summary Data Form Type	Report No Events
04/2016	Summary but no events	UTI	LTC DENOM	<input type="checkbox"/>
02/2017	Summary but no events	LABID - MRSA	MDRO	<input type="checkbox"/>

Page 1 of 1 View 1 - 2 of 2

Save Reset

Data Quality Checks

Resolving alerts

Mandatory fields marked with *

[Print Form](#)

Fields required for record completion marked with **

Facility ID *: Angela LTCF Test Facility (ID 39455)

Month *: April

Year *: 2016

Denominators for Long Term Care Locations

Location Code	Total Resident Days	Urinary Catheter Days	Report No UTI	New Antibiotic Starts for UTI Indication	Number of Urine Cultures Ordered	Custom Fields
Facility-wide Inpatient (FacWIDEIn)	120 *	50 *	<input type="checkbox"/> **	20 *	<input type="text"/> *	Custom Fields

MDRO & CDI LabID Event Reporting

Location Code	Resident Admissions:	Resident Days:	Number of Admissions on C. diff Treatment:	LabID Event (All specimens)	MRSA	VRE	CephR-Klebsiella	CRE-Ecoli	CRE-Enterobacter	CRE-Klebsiella	C. difficile	MDR-Acinetobacter	Custom Fields
Facility-wide Inpatient (FacWIDEIn)	50 *	120 *	50 *	Report No Events	<input checked="" type="checkbox"/> **	<input type="checkbox"/> **	<input type="checkbox"/> **	<input type="checkbox"/> **	<input type="checkbox"/> **	<input type="checkbox"/> **	<input type="checkbox"/>	<input type="checkbox"/> **	Custom Fields

Prevention Process Measures

Location Code	Hand Hygiene		Gown and Gloves	
	Performed	Indicated	Used	Indicated
Facility-wide Inpatient (FacWIDEIn)	100 *	100 *	100 *	100 *



Data Quality Checks

Resolving alerts


Denominators for Long Term Care Locations

Location Code	Total Resident Days	Urinary Catheter Days	Report No UTI	New Antibiotic Starts for UTI Indication	Number of Urine Cultures Ordered	Custom Fields
Facility-wide Inpatient (FacWIDEIn)	120 *	50 *	<input type="checkbox"/> **	20 *	*	Custom Fields

MDRO & CDI LabID Event Reporting

Location Code	Resident Admissions:	Resident Days:	Number of Admissions on C. diff Treatment:	E. coli	CRE-Enterobacter	CRE-Klebsiella	C. difficile	MDR-Acinetobacter	Custom Fields
Facility-wide Inpatient (FacWIDEIn)	50 *	120 *	50 *	*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Custom Fields
				*	<input type="checkbox"/> **	<input type="checkbox"/> **	<input type="checkbox"/>	<input type="checkbox"/> **	

Message from webpage

 No in-plan UTI, LABID (VRE, CEPHRKLEB, CRECOLI, CREENTERO, CREKLEB, ACINE) events have been reported for this location. Click Cancel to check appropriate Report No Events box(es) if there are no events to report for this month, otherwise, click OK to proceed and then enter events.

Data Quality Checks

■ Resolving alerts

NHSN Home

- Alerts
- Reporting Plan ▶
- Resident ▶
- Event** ▶
- Summary Data ▶
- Surveys ▶
- Analysis ▶
- Users ▶
- Facility ▶
- Group ▶
- Logout

Add Event

Mandatory fields marked with *

record completion marked with **

Add (circled in green)

Find

Incomplete

Facility ID *: **Angela LTCF Test Facility (ID 39455)** ▼

Resident ID *:

Social Security # *:

Medicare number (or comparable railroad insurance number):

Last Name:

First Name:

Middle Name:

Gender *:

Date of Birth *:

Ethnicity:

Race: American Indian/Alaska Native Asian
 Black or African American Native Hawaiian/Other Pacific Islander
 White

Resident type *:

Date of First Admission to Facility *:

Date of Current Admission to Facility *:

DATA ANALYSIS

Generating Datasets

ANALYSIS REPORTS

NHSN Home

- Alerts
- Reporting Plan ▶
- Resident ▶
- Event ▶
- Summary Data ▶
- Surveys ▶
- Analysis ▶**
- Users ▶
- Facility ▶
- Group ▶
- Logout

Analysis Reports

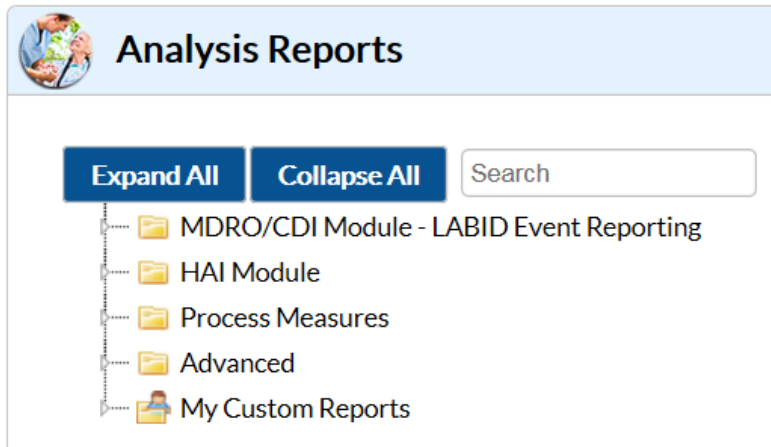
Expand All **Collapse All** Search

- MDRO/CDI Module - LABID Event Reporting
- HAI Module
- Process Measures
- Advanced
- My Custom Reports

Generate Data Sets
Reports

ANALYSIS REPORTS

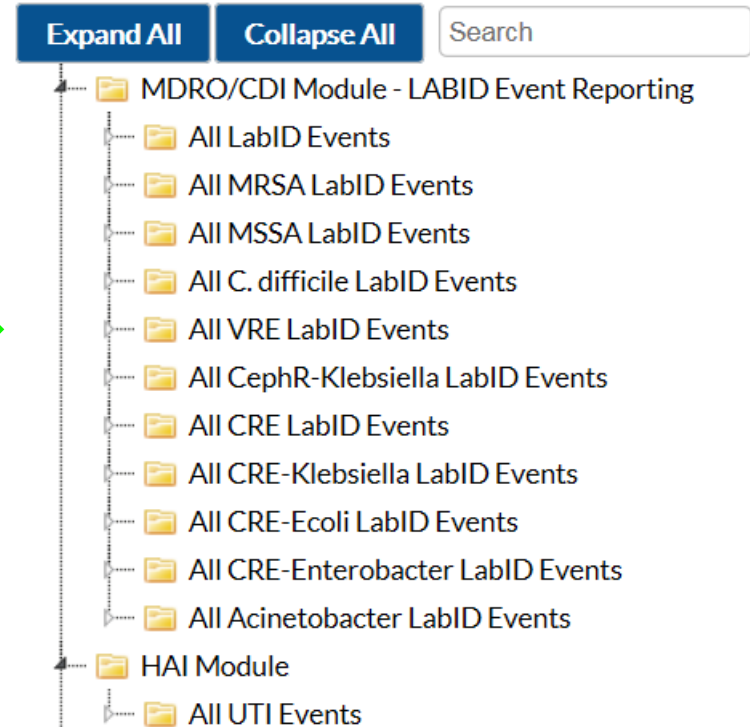
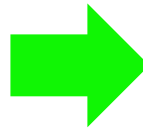
- The reports are organized into folders, first by module (e.g., MDRO/CDI Module; HAI Module)



Analysis Reports

Expand All Collapse All Search

- MDRO/CDI Module - LABID Event Reporting
- HAI Module
- Process Measures
- Advanced
- My Custom Reports



Expand All Collapse All Search

- MDRO/CDI Module - LABID Event Reporting
 - All LabID Events
 - All MRSA LabID Events
 - All MSSA LabID Events
 - All C. difficile LabID Events
 - All VRE LabID Events
 - All CephR-Klebsiella LabID Events
 - All CRE LabID Events
 - All CRE-Klebsiella LabID Events
 - All CRE-Ecoli LabID Events
 - All CRE-Enterobacter LabID Events
 - All Acinetobacter LabID Events
- HAI Module
 - All UTI Events

METRICS FOR CDI DATA ANALYSIS

- Calculated CDI Rates and Metrics

Total CDI Rate/10,000 resident-days = Number of CDI LabID Events per month regardless of time spent in the facility (i.e., CO + LO) / Number of resident-days per month x 10,000.

CDI Treatment Prevalence on Admission = Residents on *C. difficile* Treatment / Number of Admissions x 100.

CDI Long-term Care Facility-onset Incidence Rate/10,000 resident-days* = Number of all incident LO CDI LabID Events per month / Number of resident-days x 10,000.

*NOTE: This formula excludes recurrent CDI events.

Percent that is Community-onset = Number of CDI LabID Events that are CO / Total number of CDI LabID Events x 100.

Percent that is Long-term Care Facility-onset = Number of incident and recurrent CDI LabID Events that are LO / Total number of CDI LabID Events x 100.

METRICS FOR MDRO DATA ANALYSIS

- Calculated MDRO Rates and Metrics

Total MDRO Rate/1,000 resident-days = Number of MDRO LabID Events per month (regardless of time spent in the facility i.e., CO + LO) / Number of resident-days per month x 1,000.

MDRO Long-term Care Facility-onset Incidence Rate/ 1,000 resident-days = Number of all LO MDRO LabID Events per month / Number of resident-days x 1,000.

Percent of MDRO LabID Events that is Community-onset = Number of MDRO LabID Events that are CO / Total number of MDRO LabID Events x 100.

Percent of MDRO LabID Events that is Long-term Care Facility-onset = Number of MDRO LabID Events that are LO / Total number of MDRO LabID Events x 100.

Percent of LO LabID Events that is Acute Care-Transfer-Long-term Care Facility-onset = Number of ACT-LO MDRO LabID Events / Total number of LO MDRO LabID Events x 100.

CDI and MDRO protocol – Analysis section

METRICS FOR UTI DATA ANALYSIS

- Calculated UTI Rates and Metrics

Total UTI incidence rate/1,000 resident-days = Total Number of UTI Events (i.e., SUTI + CA-SUTI + ABUTI) / Total resident-days x 1,000.

Percent that are SUTI = Number of SUTI Events / Total number of UTI Events x 100.

Percent that are CA-SUTI = Number of CA-SUTI Events / Total number of UTI Events x 100.

Percent that are ABUTI = Number of ABUTI Events / Total number of UTI Events x 100.

SUTI incidence rate/1,000 resident-days = Number of SUTI Events / Total resident days – catheter-days x 1,000.

NOTE: Only SUTIs that are NOT catheter-associated will be included in the SUTI incidence rate.

GENERATING DATASETS

- Generating datasets is the first step in performing analysis in NHSN
 - Takes a snapshot of the data
 - Organizes data into defined sets for analysis
 - Allows for quicker generation of reports
 - When analyzing data in NHSN, you are using a *copy* of the data, not the live database
- Each user has his/her own analysis datasets
- May take several minutes to complete this process
- You may navigate within NHSN while datasets are generating

GENERATING DATASETS

- Navigate to Analysis>Generate datasets

The screenshot displays the NHSN Long Term Care Facility Component Home Page. On the left is a vertical navigation menu with the following items: NHSN Home, Alerts, Reporting Plan, Resident, Event, Summary Data, Surveys, Analysis, Users, Facility, Group, and Logout. A green arrow points to the 'Analysis' menu item. A dropdown menu is open for 'Analysis', containing 'Generate Data Sets' (circled in green) and 'Reports'. The main content area features a header with a globe icon and the text 'NHSN Long Term Care Facility Component Home Page'. Below the header, there are sections for 'COMPLETE THESE ITEMS' and 'ALERTS'. The 'ALERTS' section contains three summary cards: '4 Incomplete Events', '52 Missing Summaries', and '2 Incomplete Summaries'.

Alert Category	Count
Incomplete Events	4
Missing Summaries	52
Incomplete Summaries	2

GENERATING DATASETS



Generate Data Sets

Generate Long Term Care Facility Analysis Data Sets

Datasets generated will include data for the 3 most recent full calendar years up until today's date for the Patient Safety Component. To include all years check the box below.

For all other components, datasets generated will include all years. Note that any analysis options you run will be limited to the time period shown on the date range bar.

Include all data reported to NHSN for this component within the parameters of rights conferred.

3/2015

2/2017



Generate New

Last Generated: Feb 15 2017 9:29AM

GENERATING DATASETS

- NHSN Home
- Alerts
- Reporting Plan ▶
- Resident ▶
- Event ▶
- Summary Data ▶
- Surveys ▶
- Analysis ▶
- Users ▶
- Facility ▶
- Group ▶
- Logout



Generate Data Sets

Generate Long Term Care Facility Analysis Data Sets

Datasets generated will include data for the 3 Patient Safety Component. To include all year

For all other components, datasets generated will be limited to the time period shown on the

Include all data reported to NHSN for this

3/2015

Please wait...

Processing Base_LTC (95%)

Your data set generation has been scheduled. You may log out or continue to work in other areas of NHSN. When you return to this screen you will see a progress bar if still processing, otherwise, you will see a time completed.

Last Generated: Processing...

ANALYSIS TIP!

- **Since data are FROZEN when you generate datasets, any changes made to your data within NHSN after that point in time will not be represented in your reports until you generate datasets again.**

DATA ANALYSIS – RUNNING REPORTS

Line Lists and Rate Tables

ANALYSIS REPORTS

NHSN Home

Alerts

Reporting Plan ▶

Resident ▶

Event ▶

Summary Data ▶

Surveys ▶

Analysis ▶

Users ▶

Facility ▶

Group ▶

Logout

Analysis Reports

Expand All Collapse All Search

- MDRO/CDI Module - LABID Event Reporting
- HAI Module
- Process Measures
- Advanced
- My Custom Reports


Generate Data Sets

Reports

ANALYSIS REPORTS

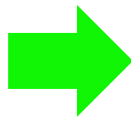
- Line list
 - Allows for record-level review of data
 - Helpful in pinpointing issues in data validity/quality
- Rate tables – Rate calculations
 - Display a facility's calculated rates
 - Helpful in pinpointing issues in data validity/quality


ANALYSIS REPORTS

 **Analysis Reports**

Expand All **Collapse All**

- MDRO/CDI Module - LABID Event Reporting
- HAI Module
- Process Measures
- Advanced
- My Custom Reports



 **Analysis Reports**

Expand All **Collapse All**

- MDRO/CDI Module - LABID Event Reporting
 - All LabID Events
 - Line Listing - All LabID Events
 - Run Report
 - Modify Report
 - Export Data Set
 - All CepHR-Klebsiella LabID Events
 - All CRE LabID Events
 - All CRE-Klebsiella LabID Events
 - All CRE-Ecoli LabID Events
 - All CRE-Enterobacter LabID Events
 - All Acinetobacter LabID Events

ANALYSIS REPORTS

- Line lists – All LabID Events

National Healthcare Safety Network

Line Listing - All LabID Events

As of: March 8, 2017 at 3:03 PM

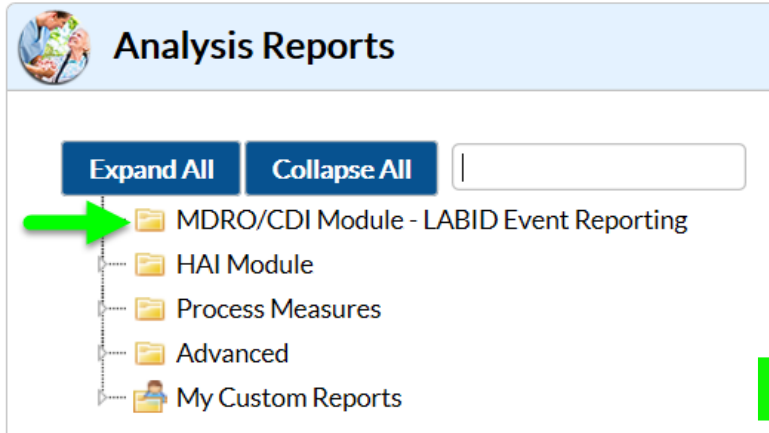
Date Range: All LTCLABID_EVENTS

1	2	3	4	5	6	7	8	9	10
orgID	resID	curAdm Date	eventID	eventDate	spcOrgType	specimenSource	location	xferFrom	xferFrom4wk
39455	2468	12/25/2014	3140	01/05/2015	CDIF	STOOL	1 D	Y	
39455	111111	12/15/2014	3217	01/10/2015	MRSA	BLDSPC	4 GEN	N	
39455	444444	10/25/2014	3179	01/10/2015	CDIF	STOOL	4 GEN	N	
39455	111111	01/01/2015	3134	01/15/2015	CDIF	STOOL	1 D	N	
39455	111111	02/01/2015	3219	02/01/2015	CDIF	STOOL	4 GEN	Y	
39455	111111	12/15/2014	3218	02/01/2015	MRSA	BLDSPC	4 GEN	N	
39455	123456	02/01/2015	3222	02/01/2015	CDIF	STOOL	4 GEN	Y	
39455	444444	02/01/2015	3225	02/01/2015	CDIF	STOOL	4 GEN	N	
39455	444444	02/01/2015	3223	02/01/2015	VRE	BLDSPC	4 GEN	N	
39455	45678	02/01/2015	3226	02/01/2015	CDIF	STOOL	4 GEN	N	
39455	45678	02/01/2015	3228	02/01/2015	MRSA	BLDSPC	4 GEN	N	
39455	777777	02/01/2015	3192	02/01/2015	CDIF	STOOL	4 GEN	Y	
39455	777777	02/01/2015	3194	02/01/2015	MRSA	BLDSPC	4 GEN	Y	
39455	123456	02/01/2015	6682	09/27/2015	MRSA	BLDSPC	4 GEN	N	
39455	123456	02/01/2015	6683	10/02/2016	MRSA	BLDSPC	4 GEN	N	
39455	12345	12/20/2016	8243	12/25/2016	CDIF	STOOL	4 GEN	Y	
39455	1234	12/24/2000	8038	12/26/2016	CDIF	STOOL	4 GEN	N	
39455	123456	01/05/2017	8218	01/10/2017	CDIF	STOOL	4 GEN	Y	
39455	111111	12/15/2014	9002	01/17/2017	CDIF	STOOL	2 PSY	N	
39455	123456	01/02/2017	8944	01/24/2017	CDIF	STOOL	4 GEN	Y	
39455	952159	12/21/2015	9187	02/06/2017	CDIF	STOOL	4 GEN	N	
39455	1234	02/02/2017	9255	02/08/2017	CDIF	STOOL	4 GEN	Y	

Sorted by eventDate location
 Data contained in this report were last generated on March 6, 2017 at 1:15 PM.

ANALYSIS REPORTS

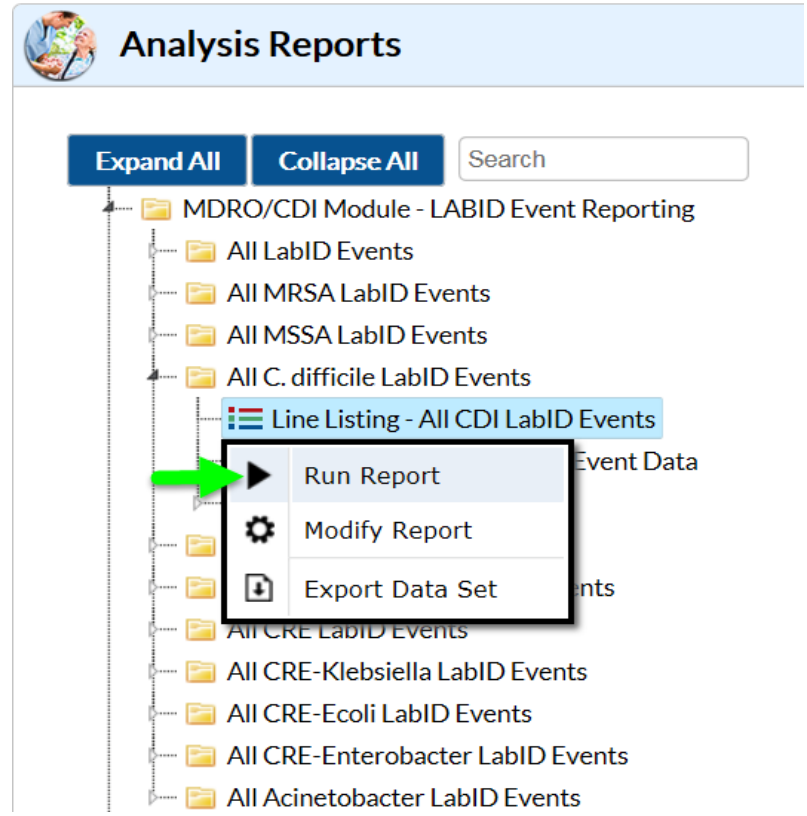
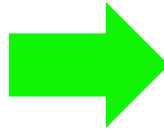
Line lists – CDI LabID Events



Analysis Reports

Expand All Collapse All

- MDRO/CDI Module - LABID Event Reporting
- HAI Module
- Process Measures
- Advanced
- My Custom Reports



Analysis Reports

Expand All Collapse All Search

- MDRO/CDI Module - LABID Event Reporting
 - All LabID Events
 - All MRSA LabID Events
 - All MSSA LabID Events
 - All C. difficile LabID Events
 - Line Listing - All CDI LabID Events
 - Run Report
 - Modify Report
 - Export Data Set
 - All CRE LabID Events
 - All CRE-Klebsiella LabID Events
 - All CRE-Ecoli LabID Events
 - All CRE-Enterobacter LabID Events
 - All Acinetobacter LabID Events

ANALYSIS REPORTS

- Line lists – CDI labID Events

National Healthcare Safety Network

Line Listing - All CDI LabID Events

As of: March 8, 2017 at 2:45 PM

Date Range: ALL CLCLABID_EVENTS

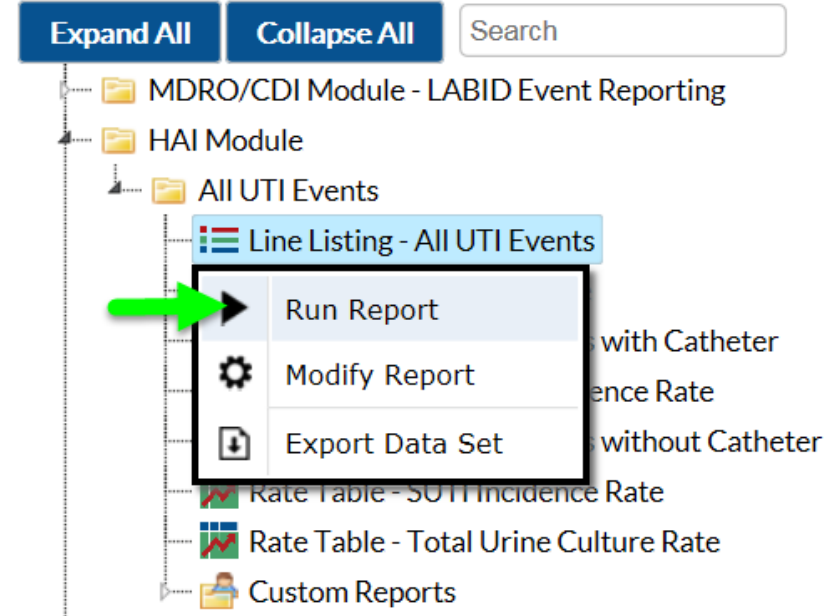
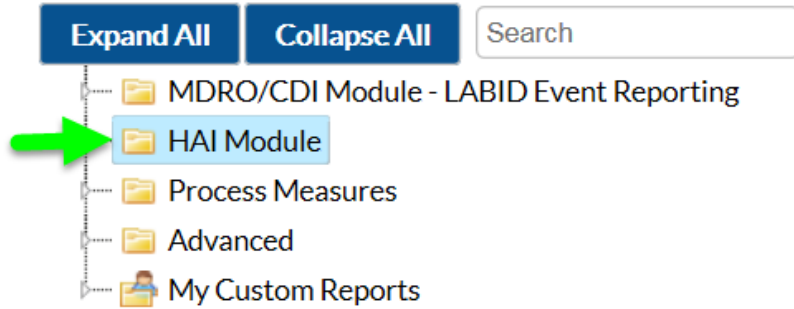
1	2	3	4	5	6	7	8	9	10
orgID	resID	curAdmDate	eventID	eventDate	spcOrgType	specimenSource	location	xferFrom	xferFrom4wk
39455	2468	12/25/2014	3140	01/05/2015	CDIF	STOOL	1 D	Y	
39455	444444	10/25/2014	3179	01/10/2015	CDIF	STOOL	4 GEN	N	
39455	111111	01/01/2015	3134	01/15/2015	CDIF	STOOL	1 D	N	
39455	111111	02/01/2015	3219	02/01/2015	CDIF	STOOL	4 GEN	Y	
39455	123456	02/01/2015	3222	02/01/2015	CDIF	STOOL	4 GEN	Y	
39455	444444	02/01/2015	3225	02/01/2015	CDIF	STOOL	4 GEN	N	
39455	45678	02/01/2015	3226	02/01/2015	CDIF	STOOL	4 GEN	N	
39455	777777	02/01/2015	3192	02/01/2015	CDIF	STOOL	4 GEN	Y	
39455	111111	12/15/2014	3216	02/15/2015	CDIF	STOOL	4 GEN	N	
39455	444444	11/15/2014	3215	02/15/2015	CDIF	STOOL	4 GEN	N	
39455	45678	02/01/2015	3227	02/15/2015	CDIF	STOOL	4 GEN	N	
39455	777777	02/01/2015	3193	02/15/2015	CDIF	STOOL	4 GEN	Y	
39455	000222	02/21/2015	6581	02/27/2015	CDIF	STOOL	4 GEN	N	
39455	12345	12/20/2016	8243	12/25/2016	CDIF	STOOL	4 GEN	Y	
39455	1234	12/24/2000	8038	12/26/2016	CDIF	STOOL	4 GEN	N	
39455	123456	01/05/2017	8218	01/10/2017	CDIF	STOOL	4 GEN	Y	
39455	111111	12/15/2014	9002	01/17/2017	CDIF	STOOL	2 PSY	N	
39455	123456	01/02/2017	8944	01/24/2017	CDIF	STOOL	4 GEN	Y	
39455	952159	12/21/2015	9187	02/06/2017	CDIF	STOOL	4 GEN	N	
39455	1234	02/02/2017	9255	02/08/2017	CDIF	STOOL	4 GEN	Y	

Sorted by eventDate location

Data contained in this report were last generated on March 6, 2017 at 1:15 PM.

ANALYSIS REPORTS

- Line listing – All UTI Events



ANALYSIS REPORTS

- Line listing – All UTI Events

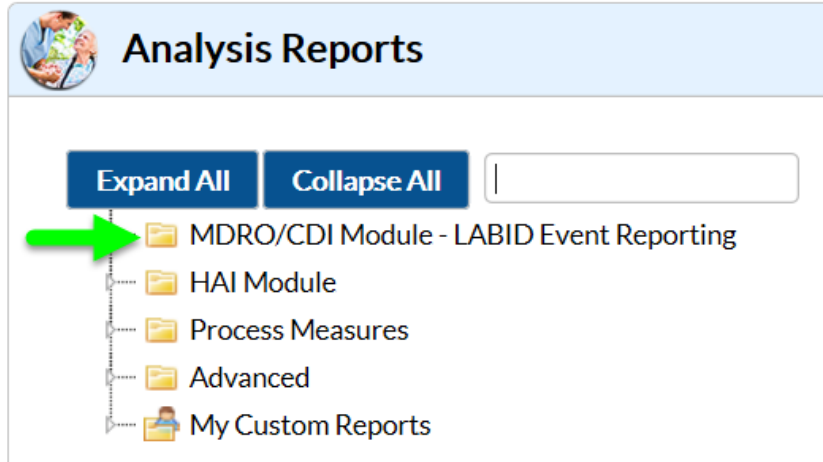
National Healthcare Safety Network Line Listing - All UTI Events

As of: March 8, 2017 at 3:24 PM
Date Range: All LTCUTI_EVENTS

1	2	3	4	5	6	7	8
orgID	resID	curAdm Date	eventID	eventDate	Itc SpcEvent	cathStatus	location
39455	11111	12/15/2014	3176	01/15/2015		INPLACE	1 D
39455	123456	03/18/2015	3491	03/25/2015		INPLACE	4 GEN
39455	2468	04/15/2015	3527	04/25/2015		INPLACE	4 GEN
39455	000000	09/25/2013	5484	05/04/2015		INPLACE	1 D
39455	123456	04/25/2015	3598	04/29/2015	ABUTI	INPLACE	4 GEN
39455	333333	01/01/2015	3178	01/12/2015	CA-SUTI	INPLACE	4 GEN
39455	222222	12/15/2014	3177	01/29/2015	CA-SUTI	REMOVE	4 GEN
39455	2468	02/01/2015	3141	02/05/2015	CA-SUTI	INPLACE	1 D
39455	2468	03/15/2015	3294	04/05/2015	CA-SUTI	INPLACE	4 GEN
39455	2468	04/02/2015	3599	04/10/2015	CA-SUTI	INPLACE	4 GEN
39455	2468	04/01/2015	3481	04/15/2015	CA-SUTI	INPLACE	1 D
39455	123456	10/15/2015	4445	10/20/2015	CA-SUTI	INPLACE	4 GEN
39455	2468	11/05/2015	4551	11/05/2015	CA-SUTI	INPLACE	4 GEN
39455	11111	04/05/2015	3621	04/11/2015	SUTI	NEITHER	1 D
39455	11111	04/10/2015	3621	04/13/2015	SUTI	NEITHER	1 D
39455	123456	04/10/2015	3597	04/15/2015	SUTI	NEITHER	4 GEN
39455	12345	07/20/2015	4055	09/01/2015	SUTI	NEITHER	4 GEN
39455	123456	10/15/2015	4456	10/18/2015	SUTI	NEITHER	4 GEN
39455	111111	10/11/2015	4457	10/18/2015	SUTI	NEITHER	4 GEN
39455	2468	10/11/2015	4896	01/20/2016	SUTI	NEITHER	4 GEN
39455	123456	02/01/2015	6145	06/01/2016	SUTI	NEITHER	4 GEN

ANALYSIS REPORTS

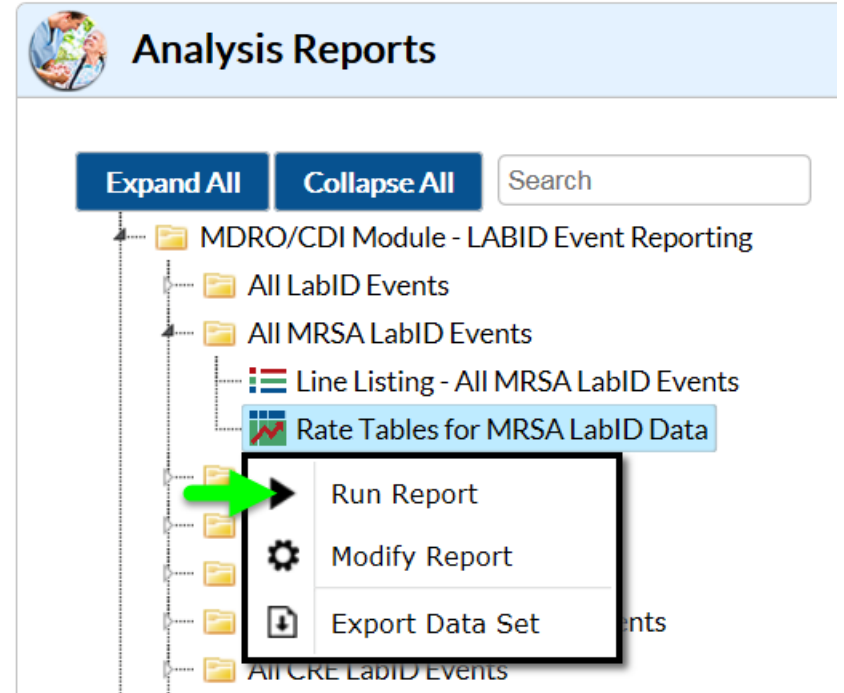
- Rate Tables– MRSA LabID Data



Analysis Reports

Expand All Collapse All

- MDRO/CDI Module - LABID Event Reporting
- HAI Module
- Process Measures
- Advanced
- My Custom Reports



Analysis Reports

Expand All Collapse All Search

- MDRO/CDI Module - LABID Event Reporting
 - All LabID Events
 - All MRSA LabID Events
 - Line Listing - All MRSA LabID Events
 - Rate Tables for MRSA LabID Data
 - Run Report
 - Modify Report
 - Export Data Set
 - All CRE LabID Events

ANALYSIS REPORTS

■ Rate Tables– MRSA LabID Data

**National Healthcare Safety Network
Rate Table - All MRSA LabID Events
Total MRSA Rate**

As of: March 8, 2017 at 4:19 PM
Date Range: All LTCLABID RATESMRSA


orgID=39455

summaryYM	location	ItcMRSACount	num ResDays	ItcMRSARate
2015M01	FACWIDEIN	1	50	20
2015M02	FACWIDEIN	7	150	46.667
2015M03	FACWIDEIN	2	60	33.333
2015M05	FACWIDEIN	0	50	0
2015M06	FACWIDEIN	0	70	0
2015M07	FACWIDEIN	0	80	0
2015M08	FACWIDEIN	0	65	0
2015M10	FACWIDEIN	0	50	0
2015M11	FACWIDEIN	0	60	0
2016M04	FACWIDEIN	0	120	0
2016M06	FACWIDEIN	0	60	0

Source of aggregate data: Not available
Data contained in this report were last generated on March 8, 2017 at 11:09 AM.

**National Healthcare Safety Network
Rate Table - All MRSA LabID Events
Total MRSA Percent that is Community-Onset (CO)**

As of: March 8, 2017 at 4:19 PM



Use scroll bar to view tables

ANALYSIS REPORTS

Rate Tables– MRSA LabID Data

National Healthcare Safety Network Rate Table - All MRSA LabID Events LTCF-Onset (LO) MRSA Rate

As of: March 8, 2017 at 4:19 PM
Date Range: All LTCLABID_RATESMRSA

orgID=39455

1 summaryYM	2 location	3 ltcMRSALOCcount	4 num ResDays	5 ltcLOMRSArate
2015M01	FACWIDEIN	1	50	20
2015M02	FACWIDEIN	2	150	13.333
2015M03	FACWIDEIN	2	60	33.333
2015M05	FACWIDEIN	0	50	0
2015M06	FACWIDEIN	0	70	0
2015M07	FACWIDEIN	0	80	0
2015M08	FACWIDEIN	0	65	0
2015M10	FACWIDEIN	0	50	0
2015M11	FACWIDEIN	0	60	0
2016M04	FACWIDEIN	0	120	0
2016M06	FACWIDEIN	0	60	0


LTCF-onset MRSA
rate (column 5) =
(column 3/ column 4)
x 1,000

Source of aggregate data: Not available






Data contained in this report were last generated on March 8, 2017 at 11:09 AM.

ANALYSIS REPORTS


▪ Rate Tables – CDI LabID Event Data

 **Analysis Reports**













Expand All **Collapse All**

-  MDRO/CDI Module - LABID Event Reporting
-  HAI Module
-  Process Measures
-  Advanced
-  My Custom Reports



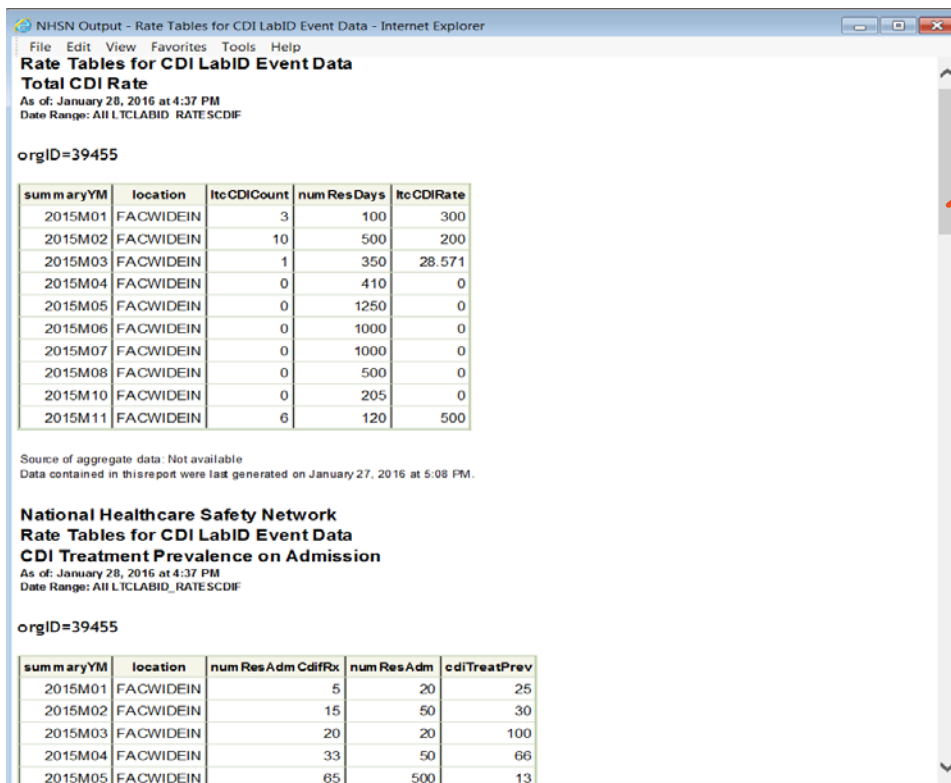
 **Analysis Reports**

Expand All **Collapse All**

-  MDRO/CDI Module - LABID Event Reporting
 -  All LabID Events
 -  All MRSA LabID Events
 -  All MSSA LabID Events
 -  All C. difficile LabID Events
 -  Line Listing - All CDI LabID Events
 -  **Rate Tables for CDI LabID Event Data**
 -  Run Report
 -  Modify Report
 -  Export Data Set
 -  All CRE-Klebsiella LabID Events
 -  All CRE-Ecoli LabID Events

ANALYSIS REPORTS

- Rate Tables– CDI LabID Event Data



NHSN Output - Rate Tables for CDI LabID Event Data - Internet Explorer

File Edit View Favorites Tools Help

Rate Tables for CDI LabID Event Data
Total CDI Rate
As of: January 28, 2016 at 4:37 PM
Date Range: All LCLABID_RATE SCDIF

orgID=39455

summaryYM	location	lrcCDICount	num Res Days	lrcCDIRate
2015M01	FACWIDEIN	3	100	300
2015M02	FACWIDEIN	10	500	200
2015M03	FACWIDEIN	1	350	28.571
2015M04	FACWIDEIN	0	410	0
2015M05	FACWIDEIN	0	1250	0
2015M06	FACWIDEIN	0	1000	0
2015M07	FACWIDEIN	0	1000	0
2015M08	FACWIDEIN	0	500	0
2015M10	FACWIDEIN	0	205	0
2015M11	FACWIDEIN	6	120	500

Source of aggregate data: Not available
Data contained in this report were last generated on January 27, 2016 at 5:08 PM.

National Healthcare Safety Network
Rate Tables for CDI LabID Event Data
CDI Treatment Prevalence on Admission
As of: January 28, 2016 at 4:37 PM
Date Range: All LCLABID_RATE SCDIF

orgID=39455

summaryYM	location	num Res Adm CdifRx	num Res Adm	cdiTreatPrev
2015M01	FACWIDEIN	5	20	25
2015M02	FACWIDEIN	15	50	30
2015M03	FACWIDEIN	20	20	100
2015M04	FACWIDEIN	33	50	66
2015M05	FACWIDEIN	65	500	13

Use scroll bar to view tables

ANALYSIS REPORT

Rate Tables – CDI LabID Event Data

National Healthcare Safety Network

Rate Tables for CDI LabID Event Data - March 2017 Training

Total CDI Percent that is LTCF-Onset (LO) and CDI LO Percent that is Acute Care Transfer (ACT LO)

As of: March 6, 2017 at 1:40 PM

Date Range: LTCLABID_RATE\$CDIF summaryYM 2015M01 to 2015M12

Facility Org ID=39455

1 Summary Year/Month	2 Location	3 Total CDI Count	4 CDI LO Count	5 CDI LO Percent	6 CDI ACT-LO Count	7 CDI ACT-LO Percent
2015M01	FACWIDEIN	3	3	100	1	33.333
2015M02	FACWIDEIN	10	5	50	1	20
2015M03	FACWIDEIN	1	1	100	1	100
2015M04	FACWIDEIN	2	2	100	0	0
2015M05	FACWIDEIN	1	1	100	0	0
2015M06	FACWIDEIN	1	1	100	0	0
2015M07	FACWIDEIN	2	2	100	0	0
2015M08	FACWIDEIN	0	0	.	0	.
2015M10	FACWIDEIN	0	0	.	0	.
2015M11	FACWIDEIN	6	5	83.333	3	60

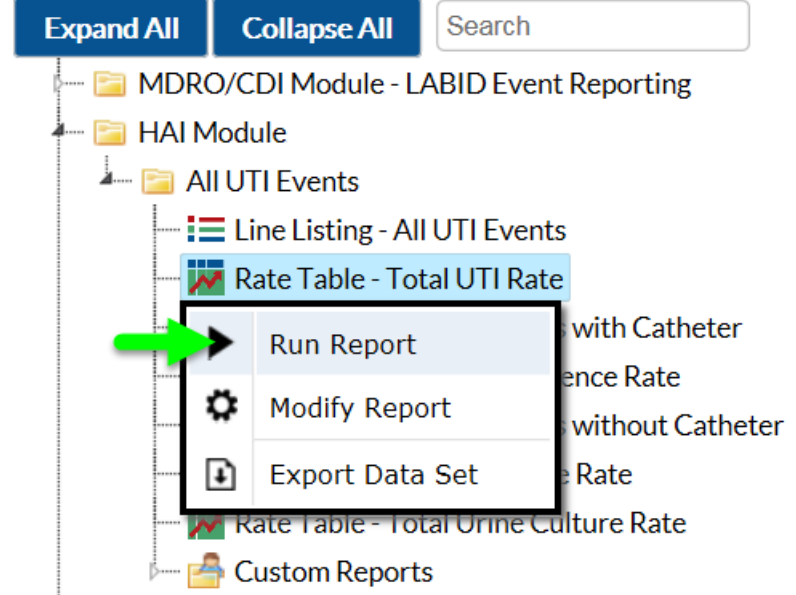
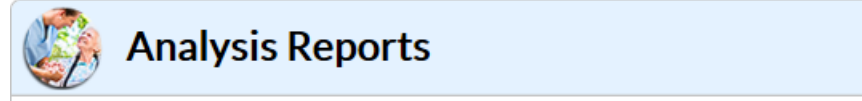
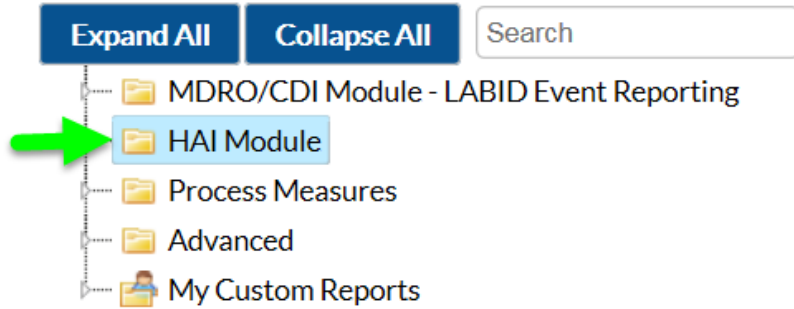
Percent LTCF-onset
CDI (column 5) =
(column 4/ column
3) x 100

Percent ACT-LO CDI
(column 7) =
(column 6/ column 4)
x 100

ItcCDICount equals the sum of CO and LO (includesACT-LO)
 ItcCDILOCount equals the sum of LO and ACT-LO counts
 ItcCDI_pctLO equals the percent of total CDI counts that are LO
 ItcCDIACTLOCount equals the sum of LO counts that are ACT-LO
 ItcCDILO_pctACTLO equals the percent of LO counts that are ACT-LO
 ItcCDILOincCount equals the sum of incident LO and ACT-LO counts
 Source of aggregate data: Not available
 Data contained in this report were last generated on March 6, 2017 at 1:15 PM.

ANALYSIS REPORTS

▪ Rate Tables – Total UTI Rate



ANALYSIS REPORTS -- CORRECTED

Rate Tables – Total UTI Rate

National Healthcare Safety Network Total UTI Incidence Rate

As of: March 8, 2017 at 4:49 PM
Date Range: All LTCUTI_RATE S

orgID=39455

1	2	3	4	5	6	7	8	9
location	summaryYM	UTICount	num Abx Start	utiTreatment	num ResDays	UTIRate	num L TUCathDays	CathDU
FACWIDEIN	2015M01	3	10	3.333	50	60.000	20	0.400
FACWIDEIN	2015M02	1	50	50	150	6.667	100	0.667
FACWIDEIN	2015M03	1	25	25	60	16.667	20	0.333
FACWIDEIN	2015M04	8	20	2.5	65	123.077	42	0.646
FACWIDEIN	2015M05	1	10	10	50	20.000	15	0.300
FACWIDEIN	2015M06	0	40	40	70	0.000	40	0.571
FACWIDEIN	2015M07	0	50	50	80	0.000	30	0.375
FACWIDEIN	2015M08	0	20	20	65	0.000	20	0.308
FACWIDEIN	2015M10	3	10	3.333	50	60.000	20	0.400
FACWIDEIN	2015M11	1	40	40	60	16.667	25	0.417
FACWIDEIN	2016M06	2	12	6	60	33.333	20	0.333
FACWIDEIN	2017M01	0	10	10	300	0.000	200	0.667
FACWIDEIN	2017M02	1	10	10	350	2.857	30	0.086

UTI treatment ratio
(column 5) =
(column 4/ column 3)

UTI rate (column 7) =
(column 3/ column
6) x 1,000

Catheter
utilization ratio
(column 9) =
(column 8/
column 6)

Source of aggregate data: Not available

Data contained in this report were last generated on March 6, 2017 at 1:15 PM.

MODIFYING ANALYSIS REPORTS: LINE LISTING



Analysis Reports

Expand All

Collapse All

Search

MDRO/CDI Module - LABID Event Reporting

All LabID Events

All MRSA LabID Events

All MSSA LabID Events

All C. difficile LabID Events

Line Listing - All CDI LabID Events



Run Report



Modify Report



Export Data Set

All CRE LabID Events

All CRE-Klebsiella LabID Events

All CRE-Ecoli LabID Events

All CRE-Enterobacter LabID Events

All Acinetobacter LabID Events

MODIFYING ANALYSIS REPORTS: LINE LISTING

Show descriptive variable names (Print List)

Analysis Data Set: ItcLabID_Events

Type: Line Listing

Data Set Generated On: 02/23/2017 15:45:00

Title/Format

Time Period

Filters

Display Variables

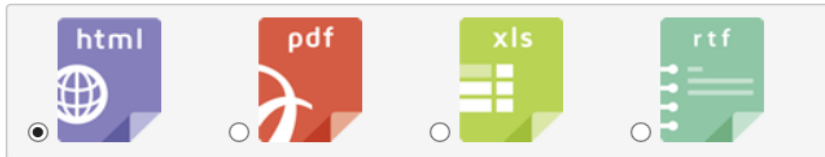
Sort Variables

Display Options

Title:

Line Listing - All CDI LabID Events March 2017 training

Format:



Title will appear at the top of the report

MODIFYING ANALYSIS REPORTS: LINE LISTING

Show descriptive variable names ([Print List](#))

Analysis Data Set: ItcLabID_Events

Type: Line Listing

Data Set Generated On: 02/23/2017 15:45:00

Title/Format

Time Period

Filters

Display Variables

Sort Variables

Display Options

Time Period:

Date Variable

Beginning

Ending

eventDateYM ▾

01/15

12/15

✕ Clear Time Period

Enter Date variable/Time period at the time you click the Run button

Add time period of
interest for the
report: MM/YY

MODIFYING ANALYSIS REPORTS: LINE LISTING

modifyVersion
OID
orgID
prevPos
resGName
resID
resMName
resRaceAAB
resRaceAMIN
resRaceASIAN
resRaceNH_PI
resRaceWHITE
resSurname
resType
resTypeDesc
servType
servTypeDesc
spcOrgType
specBodySite
specBodySiteDesc
specimenDate
specimenSource
specimenSourceDesc
ssn
version
xferFrom
xferFrom4wk
xferFromDate
xferTo
xferToDate

LabID Events - March 2017 Training

Analysis Data Set: ItcLabID_Events Type: Line Listing Data Set Generated On: 02/23/2017 15:45:00

Filters Display Variables Sort Variables Display Options

equal CDIF

Modifies the variable to filter the report

MODIFYING ANALYSIS REPORTS: LINE LISTING

Show descriptive variable names (Print List)

Analysis Data Set: ItcLabID_Events

Type: Line Listing

Data Set Generated On: 02/23/2017 15:45:00

Title/Format

Time Period

Filters

Display Variables

Sort Variables

Display Options

Display Variables:

Available Variables:		Selected Variables:	
admToEventDays	All >>	orgID	^ Up
ageAtEvent	Selected >	resID	∨ Down
antiBxRx	< Selected	curAdmDate	
CCN	<< All	eventID	
cdiAssay		eventDate	
comment		spcOrgType	
completedFlag		specimenSource	↶ Undo
createDate		location	
createUserID		xferFrom4wk	
died			
dob			
ethnicity			
ethnicityDesc			
eventDateYH			
eventDateYM			

MODIFYING ANALYSIS REPORTS: LINE LISTING

Show descriptive variable names (Print List)

Analysis Data Set: ItcLabID_Events

Type: Line Listing

Data Set Generated On: 02/23/2017 15:45:00

Title/Format

Time Period

Filters

Display Variables

Sort Variables

Display Options

Display Variables:

Available Variables:

Age on Event Date
Antibiotic Therapy at Time of Transfer?
CDC Location
CDC Location Description
CDI Assay
CMS Certification Number
Comment
Complete?
Create Date
Created in NHSN Version
Date of Birth
Date of First Admission
Date of Last Transfer from Acute Care Facility
Date of Transfer to Acute Care Facility
Date Specimen Collected

All >>

Selected >

< Selected

<< All

Selected Variables:

Facility Org ID
Resident ID
Date of Current Admission
Event ID
Event Date
Specific Organism
Specimen Source
Location
Transferred from Acute Care Facility in Past 4 Weeks?

Up

Down

Undo

List of all variable
available for line
list

List of variables
that will in the
generated report

MODIFYING ANALYSIS REPORTS: LINE LISTING

Show descriptive variable names ([Print List](#))

Analysis Data Set: ItcLabID_Events

Type: Line Listing

Data Set Generated On: 02/23/2017 15:45:00

Title/Format

Time Period

Filters

Display Variables

Sort Variables

Display Options

Display Variables:

Available Variables:

Age on Event Date
Antibiotic Therapy at Time of Transfer?
CDC Location
CDC Location Description
CMS Certification Number
Comment
Complete?
Create Date
Created in NHSN Version
Date of Birth
Date of First Admission
Date of Last Transfer from Acute Care Facility
Date of Transfer to Acute Care Facility
Date Specimen Collected
Days: Admit-to Event

All >>

Selected >

< Selected

<< All

Selected Variables:

Facility Org ID
Resident ID
Date of Current Admission
Event ID
Event Date
Specific Organism
Specimen Source
Location
Transferred from Acute Care Facility in Past 4 Weeks?
CDI Assay

^ Up

v Down

↶ Undo

Show descriptive variable names (Print List)

Analysis Data Set: ItcLabID_Events

Type: Line Listing

Data Set Generated On: 02/23/2017 15:45:00

- Title/Format
- Time Period
- Filters
- Display Variables
- Sort Variables
- Display Options

Line Listing Options:

Page by variable:

- Facility Org ID
- Resident ID
- Date of Current Admission
- Event ID
- Event Date
- Specific Organism
- Specimen Source
- Location
- Transferred from Acute Care Facility in Past 4 Weeks?
- CDI Assay

Modifies how the report is displayed (i.e. by OrgID, eventDate)

- ▶ Run
- Save...
- Export...
- Close

MODIFYING ANALYSIS REPORTS: LINE LISTING

Show descriptive variable names (Print List) Analysis Data Set: ItcLabID_Events Type: Line Listing Data Set Generated On: 02/23/2017 15:45:00

Title/Format Time Period Filters Display Variables Sort Variables **Display Options**

Line Listing Options:
Page by variable:

Specify a name for your Analysis Report:

Analysis Report Name:

Overwrite existing Custom Analysis Report (Save)
 Create a new Custom Analysis Report based on this one (Save as)

MODIFYING ANALYSIS REPORTS: LINE LISTING

Analysis Reports

Expand All Collapse All Search

- MDRO/CDI Module - LabID Event Reporting
 - All LabID Events
 - All MRSA LabID Events
 - All MSSA LabID Events
 - All C. difficile LabID Events
 - Line Listing - All CDI LabID Events
 - Rate Tables for CDI LabID Event Data
 - Custom Reports
 - Line Listing - IL question
 - Line Listing - All CDI LabID Events_test
 - GVB3 - Line Listing - All CDI LabID Events_medn
 - GVB3 - Line Listing - All CDI LabID Events - March 2017 Training**
 - LabID Event Data - March 2017 Training
- All
- All
- All
- All
- All
- All
- All
- All

Run Report

Modify Report

Delete Report

Export Data Set

Publish Report

Rename Report

ANALYSIS REPORTS

National Healthcare Safety Network

Line Listing - All CDI LabID Events March 2017 training

As of: March 6, 2017 at 11:18 AM

Date Range: L TCLABID_EVENTS ev entDateYM 2015M01 to 2015M12

1	2	3	4	5	6	7	8	9	10
Facility Org ID	Resident ID	Date of Current Admission	Event ID	Event Date	Specific Organism	Specimen Source	Location	Transferred from Acute Care Facility in Past 4 Weeks?	CDI Assay
39455	2468	12/25/2014	3140	01/05/2015	CDIF	STOOL	1 D		Incident
39455	444444	10/25/2014	3179	01/10/2015	CDIF	STOOL	4 GEN		Incident
39455	111111	01/01/2015	3134	01/15/2015	CDIF	STOOL	1 D		Incident
39455	111111	02/01/2015	3219	02/01/2015	CDIF	STOOL	4 GEN		Recurrent
39455	123456	02/01/2015	3222	02/01/2015	CDIF	STOOL	4 GEN		Incident
39455	444444	02/01/2015	3225	02/01/2015	CDIF	STOOL	4 GEN		Recurrent
39455	45678	02/01/2015	3226	02/01/2015	CDIF	STOOL	4 GEN		Incident
39455	777777	02/01/2015	3192	02/01/2015	CDIF	STOOL	4 GEN		Incident
39455	111111	12/15/2014	3216	02/15/2015	CDIF	STOOL	4 GEN		Recurrent
39455	444444	11/15/2014	3215	02/15/2015	CDIF	STOOL	4 GEN		Recurrent
39455	45678	02/01/2015	3227	02/15/2015	CDIF	STOOL	4 GEN		Recurrent
39455	777777	02/01/2015	3193	02/15/2015	CDIF	STOOL	4 GEN		Recurrent
39455	222222	02/21/2015	3175	02/27/2015	CDIF	STOOL	4 GEN		Incident
39455	123456	03/01/2015	3285	03/25/2015	CDIF	STOOL	4 GEN		Recurrent
39455	000222	03/23/2015	4828	04/13/2015	CDIF	STOOL	2 PSY		Incident
39455	334879	03/23/2015	4829	04/29/2015	CDIF	STOOL	2W		Incident
39455	125856	04/14/2015	4826	05/20/2015	CDIF	STOOL	2W		Incident
39455	646163	04/14/2015	4835	06/08/2015	CDIF	STOOL	2W		Incident
39455	123455	08/03/2014	6361	07/01/2015	CDIF	STOOL	2W		Incident
39455	123455	08/03/2014	6362	07/16/2015	CDIF	STOOL	2W		Recurrent
39455	3335588	09/21/2015	4827	09/28/2015	CDIF	STOOL	4 GEN		Incident
39455	2468	11/01/2015	4550	11/03/2015	CDIF	STOOL	4 GEN		Incident
39455	111111	12/15/2014	4539	11/10/2015	CDIF	STOOL	4 GEN		Incident
39455	222222	11/10/2015	4553	11/13/2015	CDIF	STOOL	3 REHAB		Incident
39455	123456	02/01/2015	4538	11/15/2015	CDIF	STOOL	4 GEN		Incident
39455	2468	11/01/2015	4552	11/29/2015	CDIF	STOOL	4 GEN		Recurrent
39455	222222	11/20/2015	4554	11/30/2015	CDIF	STOOL	3 REHAB		Recurrent

Sorted by eventDate

Data contained in this report were last generated on February 23, 2017 at 3:44 PM.

GENERAL TIPS FOR ANALYZING DATA IN NHSN

- Develop a timeline to regularly analyze facility data entered into NHSN
 - Consider a frequency that would allow for timely feedback and interventions if necessary
 - Example: Monthly review of rates and event-level details
- Generate datasets regularly
- Read the footnotes on your reports
- Review data for accuracy and completeness

NHSN RESOURCES

LONG-TERM CARE FACILITY COMPONENT

- ❖ NHSN LTCF website: <https://www.cdc.gov/nhsn/ltc/index.html>
 - ❖ Training
 - ❖ Protocols
 - ❖ Data collection forms
 - ❖ Tables of instructions for completing all forms
 - ❖ Key terms

Questions or Need Help? Contact User Support at nhsn@cdc.gov

*****All e-mail Inquiries should be sent to nhsn@cdc.gov for triage and delegation*

Thank you!

For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

