



THE UNIVERSITY  
*of* NORTH CAROLINA  
*at* CHAPEL HILL



NC DEPARTMENT OF  
**HEALTH AND  
HUMAN SERVICES**  
Division of Public Health



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# Getting Started with NC DETECT as a Local Health Department User

FEBRUARY 4, 2026

# Training Overview

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- Syndromic Surveillance & NC DETECT Background
- NC DETECT Strengths and Limitations
- LHD User Roles
- Sample Reports
  - Line Listing
  - Table & Graph Generators & Heat Maps
  - Custom Search
  - Annotation
  - Predesigned Dashboards
- Q & A

# Background

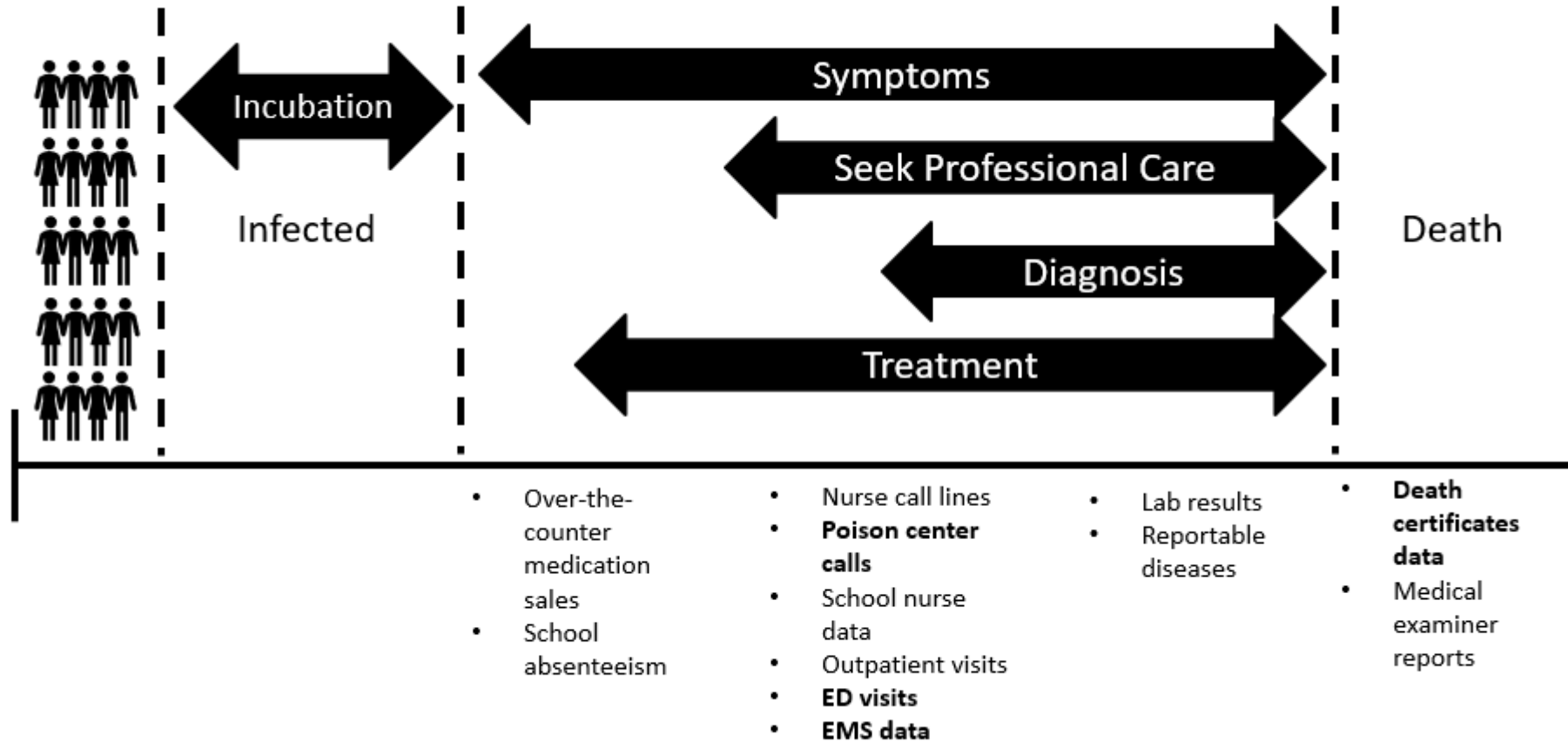
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# Syndromic Surveillance

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- Using near real-time data to understand what is happening to a community's health
- Focus is on timeliness & trends
- All Hazards surveillance including trend monitoring, situational awareness, cluster detection, rumor control, case finding, etc.
- Syndromic surveillance is *one* component of overall public health surveillance strategy

# Potential Syn. Surveillance Data Sources



# NC DETECT Website



- Home
- About ▾
- Data ▾
- Dashboards ▾
- Reports ▾
- FAQ
- Training
- User Guides
- Account Request**
- Login

## Home

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) is North Carolina’s statewide syndromic surveillance system. NC DETECT was created by the [North Carolina Division of Public Health](#) (NC DPH) in 2004 in collaboration with the [Carolina Center for Health Informatics](#) (CCHI) in the [UNC Department of Emergency Medicine](#) to address the need for early event detection and timely public health surveillance in North Carolina using a variety of secondary data sources. Authorized users are currently able to view data from emergency departments, [North Carolina Poison Control](#), and [emergency medical services \(EMS\)](#), as well as pilot data from select urgent care centers.

NC DETECT is designed, developed and maintained by CCHI staff with funding by the NC DPH. New functionality is added regularly based on end user feedback.

Please send questions to [ncdetect@listserv.med.unc.edu](mailto:ncdetect@listserv.med.unc.edu).

## UPDATES & ANNOUNCEMENTS

[Self-Inflicted Injury Definition Updated on Mental Health Dashboard](#)

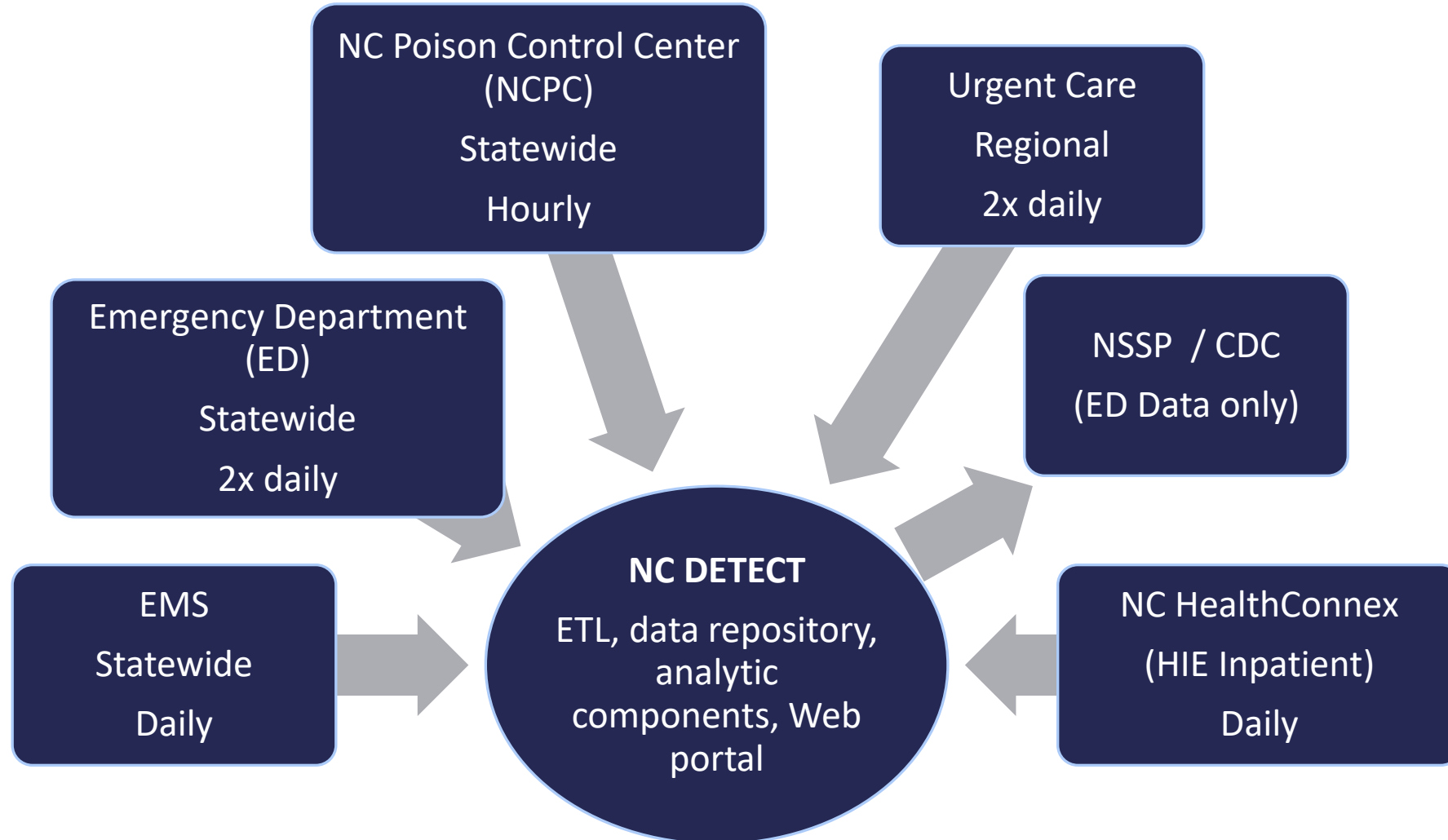
[Firearm Injury in North Carolina: Pervasive but Preventable](#)

[Responding to a Proposal to Change the Default Intent Coding for Firearm Injury](#)

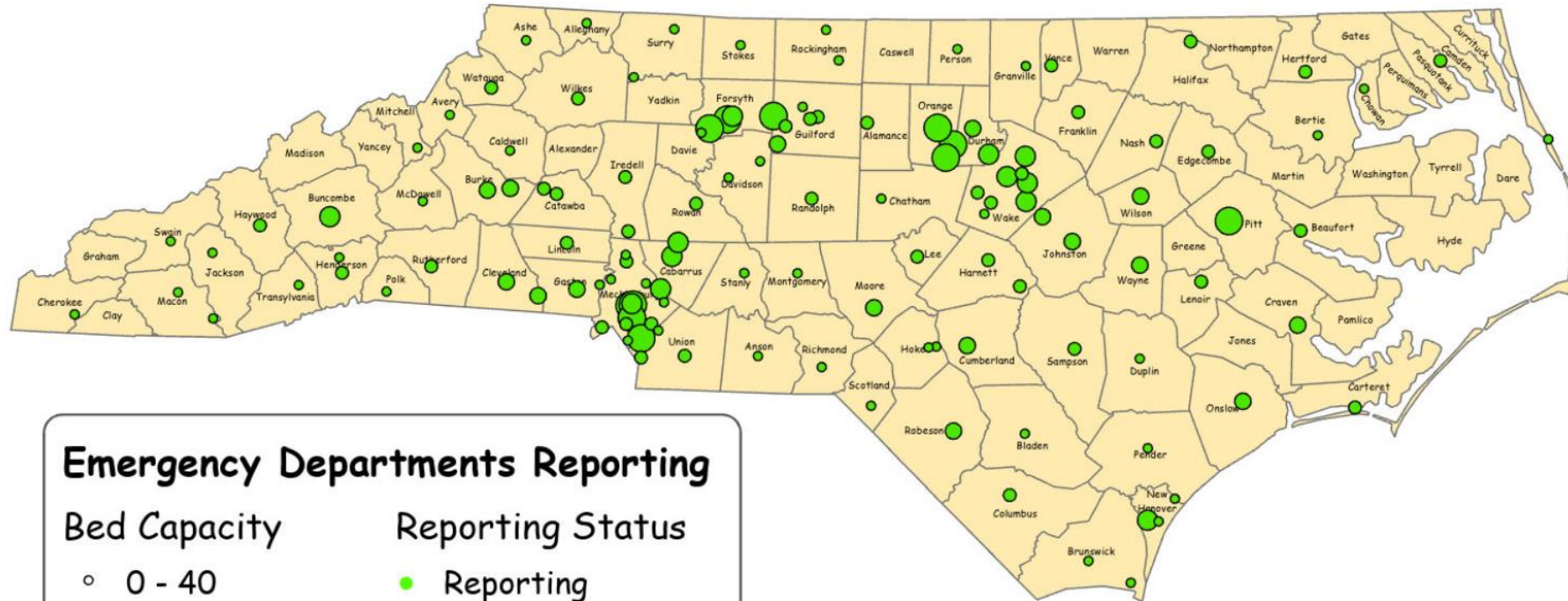
[Comparing Intent Behind Youth and Adult Firearm Injury and Deaths](#)

# NC DETECT Data Sources & Frequency

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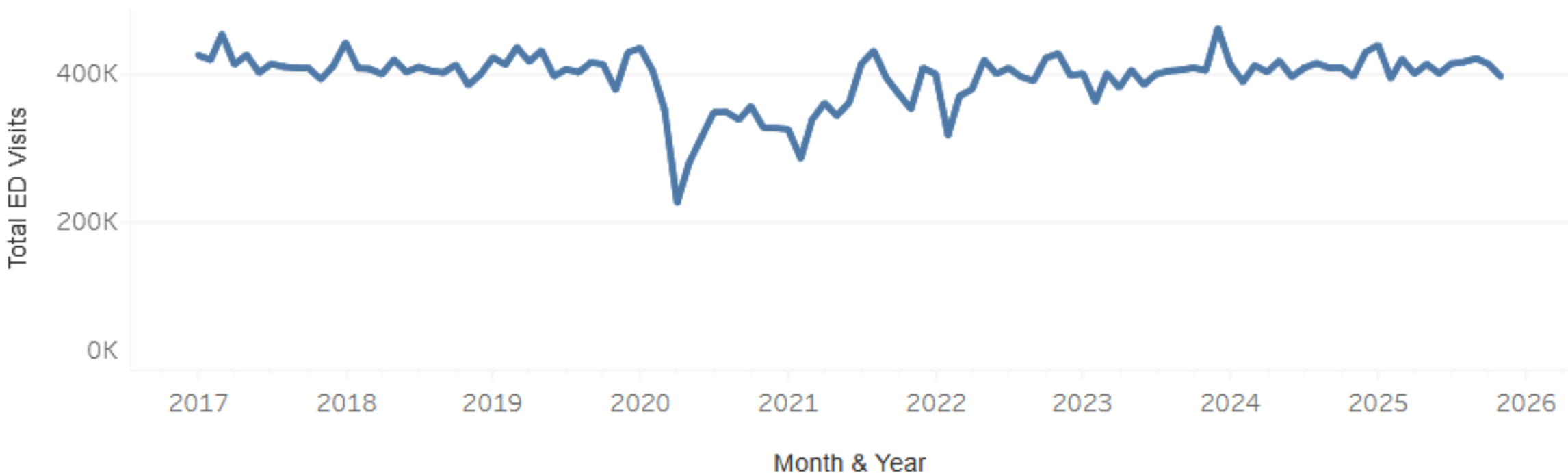


# EDs Reporting to NC DETECT by Bed Capacity



# Emergency Department (ED) Visit Trends

Monthly ED Visit Volume by Selected County(ies)



# “Syndrome” Classification: Visits (not People)

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- Each visit/encounter for each data source is reviewed and classified into 0, 1 or more syndromes.
  - The same visit may be counted more than once across syndromes!
- For emergency department data, syndromes are typically based on keyword terms in the chief complaint, triage notes (when available) and ICD codes.
  - Syndrome names typically designate what was included in the search
  - False positives will happen with keyword searches, but sensitivity is improved

# Syndrome Example: Cold Exposure (ICD910CM or Keyword)

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Free Text	ICD Codes
"hypother*" OR "frostbit*" OR "frost bit*" OR "frostnip*" OR "frost ni*" OR "cold expos*" OR "cold-exp*" OR "cold – exp*" OR "exposure to cold" OR "out in the cold" OR (frozen AND hands) OR (frozen AND feet)  Exclusion: "hypoglycemi*"	ICD-9-CM Codes: E901.0, E901.8, E901.9, E988.3 OR 991%  ICD-10-CM Codes: T33% OR T34% OR T68% OR T69% OR X31% (missing encounter or initial encounter only) OR P80%  Exclusion codes: ICD-9-CM: E901.1 ICD-10-CM: W93% OR R68.0 or T88.51%

<https://icd10cmtool.cdc.gov/?fy=FY2026>

# NC DETECT Strengths & Limitations

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- Data are very timely, but current year data are updated daily and historic counts/% may change
- Data are not “pre-filtered” so we have flexibility to develop new “syndromes” as needed to respond to emerging threats
- Data available in NC DETECT are not collected for public health surveillance purposes; public health surveillance is a “secondary” use
- For infectious diseases, NC DETECT data do NOT represent lab-confirmed cases.
- Injury surveillance using emergency department (ED) data relies heavily on external mechanism ICD-10-CM codes, but hospitals are not required to use these codes
- ICD-10-CM codes received do not have any order assigned to them

# NC DETECT Uses for LHD Users

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- Near real time monitoring of injuries, substance misuse, mental health, infectious diseases, chronic disease, exposures/disasters, mass gatherings, etc.
  - Compare trends for your residents of your county(ies) to neighboring/peer counties
  - Review data for hospitals in your county(ies)
- Monthly (and annual) trends for 10-15 years in ED visit data
- Case finding for known outbreaks
- Cluster detection (Annotation)
- Rumor control (Media reports state....)

# LHD User Roles

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# What can LHD Users access in NC DETECT?

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Access (Data / Functionality)	LHD User	LHD Health Director	LHD PC User
ED data line listing: hospitals & residents in LHD county(ies)	Yes	Yes	Yes
ED Aggregate Data for all 100 counties	Yes	Yes	Yes
NCPC line listing: residents in LHD county(ies)	Yes	Yes	Yes
EMS line listing: residents in LHD county(ies) based on EMS system county	Yes	Yes	Yes
Urgent Care: facilities and residents in LHD county(ies)	Yes	Yes	Yes
HIE Inpatient: residents in LHD county(ies)	Yes	Yes	Yes
Death Certificate: residents in LHD county(ies)	Yes	Yes	Yes
PHEP Reporting Write Access in LHD county(ies)	No	No	Yes
PHEP Reporting View Access	No	Yes	Yes

# A Note about Customized Training

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- This webinar uses screenshots and is generic for NC
- Customized training can be scheduled to look at data specific to your jurisdiction, do a deeper dive into specific functionality and look at non-ED data sources
- Email us to schedule!

# Line Listing

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A GREAT PLACE TO START TO GET FAMILIAR WITH THE DATA

# NC DETECT Web App Landing Page

NC DETECT

Case Definitions ▾ Region Map Training User Guides ▾ User Support

**REPORTS**

- Dashboard ▾
- Overall Counts
- Line Listing**
- Table Generator
- Graph Generator
- Heat Maps
- Map Generator
- ED Custom Search
- ED MRN
- Annotation Reports
- PHE Surveillance ▾
- Peer County Reports ▾

## Welcome Amy!

Please use the links at the left to access reports of interest. A brief description of each report is below. Note, report access is dependent on user role and some reports described below may not be available to you. Please also visit the [NC DETECT Training Page](#) for additional guidance on using these reports.

- **Dashboard**
  - **Counts Dashboard:** (former landing page). This report shows graphs of statewide counts for the previous 10 days across all data sources that are updated at least once daily.
  - **Predesigned Dashboards:** Allows users to view trends and various graphs on the same page for a common indicator, e.g., COVID, Flu, Overdose, Firearm-related Injury, etc. Users can customize locations, date ranges and grouping options.
- **Overall Counts:** Use this report to retrieve tabular denominator data for ED, UC, or EMS data in vertical or horizontal format for user-defined date ranges and locations. Sparkline trends are also available.
- **Line Listing:** View detailed record-level data for all data sources available based on your user role. All reports allow sorting and tabular and column-based filtering as well as customizable date ranges and location selection. Some reports include additional map features. CSV download options are available for results sets that are  $\geq 50,000$  and no more than 250,000 records.
- **Table Generator:** Generate tabular data for select data sources, grouped by up to 4 different criteria. Users can define date range and location types, and can also filter data by age group, sex, race, etc.
- **Graph Generator:** Generate graphs for select data sources, date ranges and locations. Compare trends for two or more syndromes, even across data sources. User-defined filtering and group by options are also available.
- **ED MRN:** Enter an ED Internal Tracking ED to retrieve detailed record-level information.
- **Annotation Reports:** View and add comments to NC DETECT-generated signals for select data sources. Users can also create new "events" for public health issues of concern in their jurisdiction.
- **Peer County Reports**
  - **County-Level Graph Generator:** Access all the features of the Graph Generator described above for ED data for all 100 counties. For LHD users, this report allows you to compare your county trends to one or more peer counties.
  - **County-Level Predesigned Dashboard:** Access all the features of the Predesigned Dashboards described above for ED and UC data. For LHD users, this report allows you to view trends for peer counties.

# ED Line Listing Report Options

The screenshot shows the 'Line Listing' configuration page in the NC DETECT system. The left sidebar contains a 'REPORTS' menu with options: Dashboard, Overall Counts, Line Listing (selected), Table Generator, Graph Generator, Heat Maps, Map Generator, ED Custom Search, ED MRN, Annotation Reports, PHE Surveillance, and Peer County Reports. The main content area is titled 'Line Listing' and includes the following sections:

- Select Data Source:** Buttons for ED (selected), EMS, HIE-I, UC, NCPC, and DEATHS.
- Select Line Listing Type:** Buttons for Syndrome (selected), Custom Event, BT Agent / Emerging Threats, and Basic.
- Select Syndrome:** A dropdown menu currently showing 'Select...'.
- Date Range:** 'From' date: 01/12/2026; 'To' date: 01/22/2026.
- Location Options:**
  - Search by Standard/Custom Locations:** Buttons for Standard Locations (selected) and Custom Locations.
  - Select Location Type:** Buttons for County (selected) and Hospital.
  - Location:** A dropdown menu currently showing 'Location: All'. A link for 'Change Locations' is visible.
- Results include Map:** Buttons for Yes and No (selected).

A large blue 'Search' button is located at the bottom of the configuration area.

- Syndrome: well-established definition; data are pre-processed
- Custom event: not pre-processed; new/used infrequently
- BT Agent / Emerging Threats: very specific definitions!
- Basic: show me all visits; no pre-filtering

- Standard & Custom Location Options
- Searching by County (patient residence) is different than searching by Hospital (all patients)

# ED Line Listing Output (Key Data Elements)

<b>Arrival Date Time</b>	e.g., 2026-01-16 04:16:00.0
<b>Hospital</b>	Hospital
<b>Patient City, County, ZIP, State</b>	These elements reflect the patient's residence (where the bill is going)
<b>Patient Age, Age Group</b>	Calculated based on visit date & DOB
<b>Patient Sex, Race, Ethnicity</b>	We receive single values for race; patients with multiple races grouped into Other
<b>Chief Complaint</b>	Patient's reason for coming to the ED
<b>Triage Notes (Optional)</b>	Optional data element that expands on the chief complaint by triage nurse
<b>Disposition</b>	Where does the patient go after leaving the ED? Discharged, Admitted, Died (in ED)
<b>Diagnosis Codes</b>	All diagnoses received for that visit; <b>no significance to diagnosis code order</b>
<b>Transport Mode</b>	How the patient arrived in the ED (~ 88% of ED visits are walk-in)
<b>Insurance Coverage</b>	Medicare, Medicaid, Private Insurance, Self-Pay, etc.
<b>Internal Tracking ID</b>	Unique ID for that patient at that facility only. We cannot track patients statewide
<b>Visit ID</b>	Unique ID for this visit

# ED Syndrome Line Listing Report

## Line Listing

Select Data Source:

**ED** EMS HIE-I UC NCPC DEATHS

Select Line Listing Type:

**Syndrome** Custom Event BT Agent / Emerging Threats Basic

Select Syndrome:

Injury: Cold Exposure (ICD910CM or Keyword) | v

From

01/12/2026

Date Range:

To

01/22/2026

Location Options:

Search by Standard/Custom Locations:

**Standard Locations** Custom Locations

Select Location Type:

County **Hospital**

Location:

[Change Locations](#)

Location: All

Results include Map:

Yes **No**

Search

# Injury: Cold Exposure (ICD910CM or Keyword)

Chief complaint	Triage note	ICD Codes
Acute Intoxication	Nurse Comment: BIB EMS, family called ems that patient was not acting his normal self. Family smelled alcohol on his breath. When ems got there, patient was combative that they needed to restrain and sedated him.	F12.90 Cannabis use, unspecified, uncomplicated ; F10.921 Alcohol use, unspecified with intoxication delirium ; <b>T68.XXXA Hypothermia, initial encounter</b> ; E87.20 Acidosis, unspecified
<b>HYPOTHERMIA</b>		W19 Unspecified fall ; Z91.040 Latex allergy status ; Z04.3 Encounter for examination and observation following other accident ; F10.120 Alcohol abuse with intoxication, uncomplicated
<b>cold exposure</b>	Nurse Comment: BIB by ems for c/o of <b>cold exposure</b> x1 hr and headache, 1,mg tylenol pta by EMS. Pt says she was not let into her niece's house that we previously ubered her to and she has nowhere to go now and is cold.	<b>T69.9XXA Effect of reduced temperature, unspecified, initial encounter</b> ; I10 Essential (primary) hypertension ; Z91.14 Patient's other noncompliance with medication regimen ; Z59.819 Housing instability, housed unspecified

# Table Generator

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# NC DETECT Table Generator Reports

## REPORTS

- Dashboard
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- Peer County Reports
  - County-Level Table Generator
  - County-Level Graph Generator
  - County-Level Predesigned Dashboard

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#### • Dashboard

This report shows graphs of statewide counts for the previous 10 days across all data sources that are

view trends and various graphs on the same page for a common indicator, e.g., COVID, Flu, Overdose, Firearms, date ranges and grouping options.

denominator data for ED, UC, or EMS data in vertical or horizontal format for user-defined date ranges and locations. Sparkline trends are also available.

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Tabular Output for county(ies) and hospital(s) in your jurisdiction

Tabular Output for all 100 counties

# NC DETECT Table Generator Search Options

**Table Generator**

Select Data Source:

Select Definition:

From:

Date Range: To:

Location Options:

Search by Standard/Custom Locations:

Select Location Type:

Location: [Change Locations](#)

Optional Filters:

Group Results By:

And By:

And By:

Results include Subtotals:

# Table Generator: Self-Inflicted Injury (ICD910CM)

**Search Criteria:**

- **Definition:** ED: Injury: Self-Inflicted Injury (ICD910CM)
- **Date Range:** 1/1/2025 - 12/31/2025
- **County:** All NC Counties

Show 100

 [Export ALL Results to Excel](#)

 [Export Filtered Results to Excel](#)

Showing 1 to 69 of 69 records, page 1 of 1

 [Clear All Column Search Filters](#)

Table Search:

search (69) ...

Age Group	Disposition	Definition Count	Percentage of Definition Counts	Total ED Visits	Percentage Of Total ED Visits
search (69) ...	search (69) ...	search (69) ...	search (69) ...	search (69) ...	search (69) ...
(19 - 24) College	Discharged	564	28.26%	321521	0.18%
(19 - 24) College	Admitted	536	26.85%	15915	3.37%
(19 - 24) College	Admitted - Psych	583	29.21%	3661	15.92%
(19 - 24) College	Died	6	0.30%	143	4.20%
(19 - 24) College	Transferred	245	12.27%	6980	3.51%
(19 - 24) College	Left AMA / Discontinued Care	24	1.20%	18137	0.13%
(19 - 24) College	Unknown/Missing	38	1.90%	11959	0.32%

# Graph Generator

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# NC DETECT Graph Generator Reports

REPORTS

- Dashboard
- Overall Counts
- Line Listing
- Table Generator
- Graph Generator**
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Graphs for county(ies) and hospital(s) in your jurisdiction

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...inator data for ED, UC, or EMS data in vertical or horizontal format for user-defined date ranges and

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Graphs for all 100 counties

# Peer County Graph Generator Search Options

**County-Level Graph Generator**

Select Graph Type:

Select Data Source:

Select Definitions:

Date Range:

From:

To:

Location Options:

Search by Standard/Custom Locations:

Select Location Type:

Location: [Change Locations](#)

Optional Filters:

Graph Options

Stratify Data By:

X-Axis options:

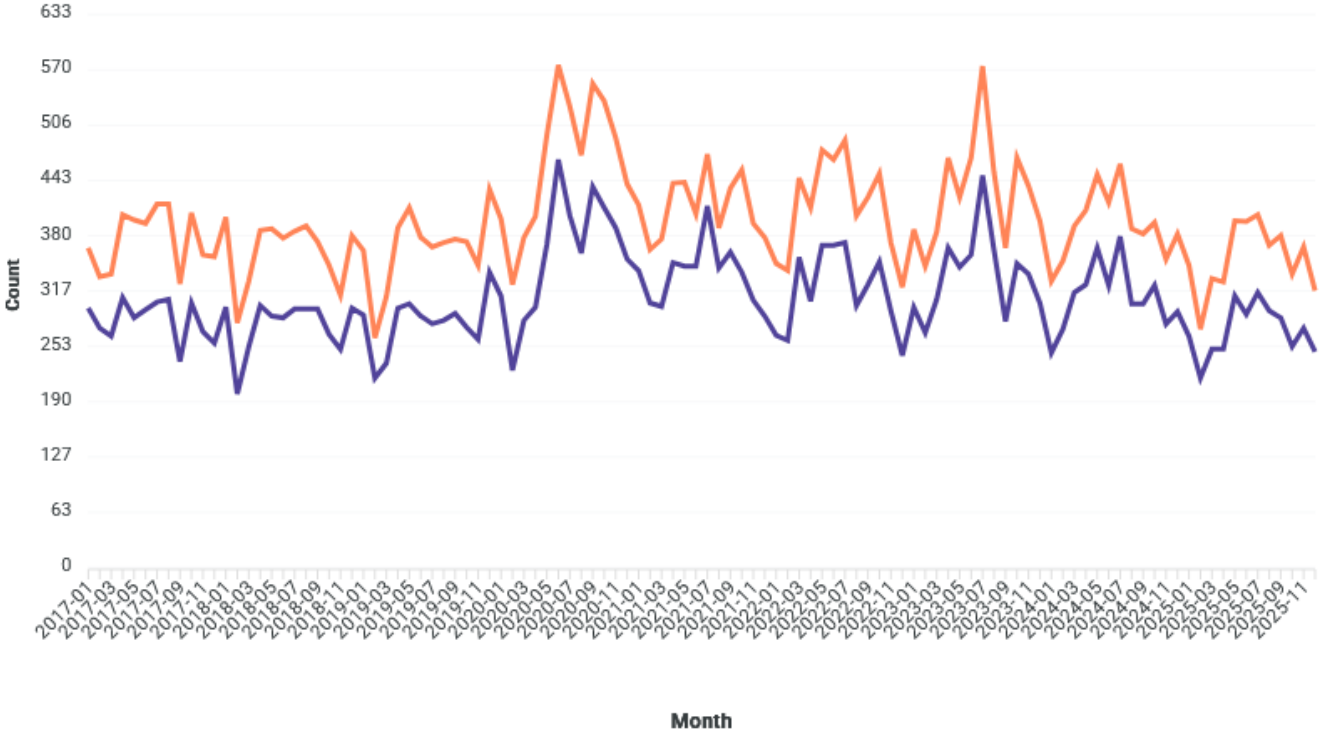
Y-Axis options:

# Firearm All Intents with and w/out Keywords

Download Graph

### Counts by Definition

Date Range: 1/1/2017 - 12/31/2025  
County: All NC Counties  
Source: NC DETECT; Generated: 1/26/2026



Take a screenshot or use Download Graph button to copy graph

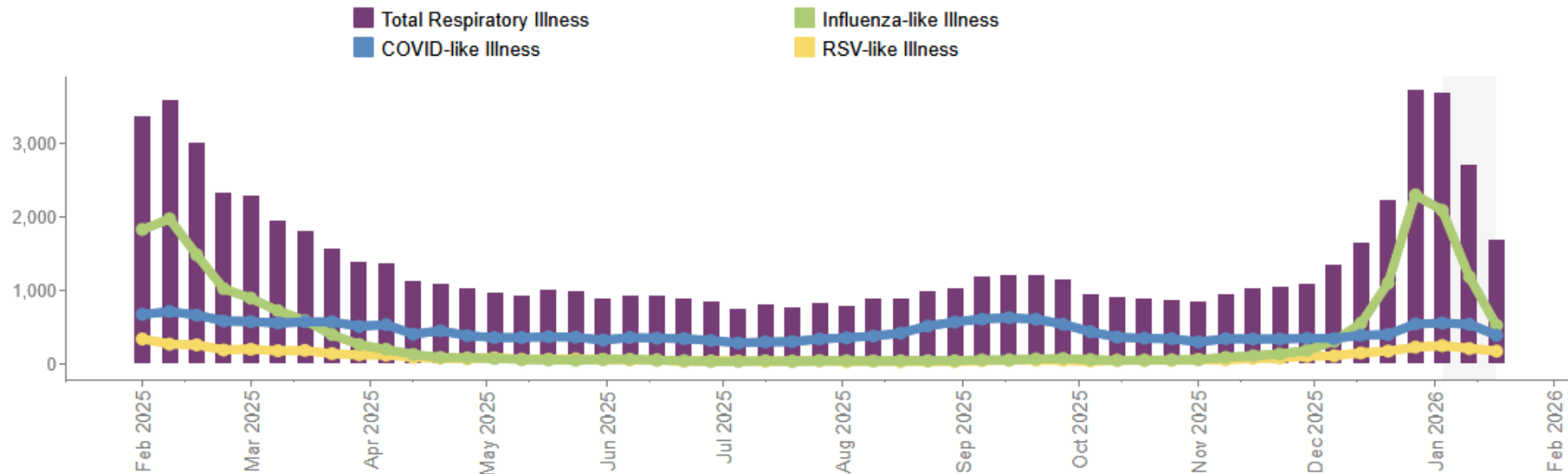
Click on hamburger menu to Download CSV file of graph data

● ED: Firearm - All Intents (ICD910CM) ● ED: Firearm - All Intents CDC V2 (ICD10CM or Keyword)

# Generate Graphs similar to DHHS Dashboard

## Hospital Admissions from the Emergency Department

Latest week: There were **1,684 hospital admissions** from the emergency department for people who were diagnosed with or had symptoms of a respiratory virus. This includes, but is not limited to, Influenza, RSV or COVID-19. This is a **decrease** from the week before. (The week before was 2,698 hospital admissions from the emergency department)



Number of North Carolina hospital admissions from the emergency department with symptoms or a diagnosis of a respiratory virus. [More info](#)

# Respiratory Syndromes in Graph Generator

**County-Level Graph Generator**

Select Graph Type:

Select Data Source:

Select Definitions:

Date Range:

From:

To:

Location Options:

Search by Standard/Custom Locations:

Select Location Type:

Location: [Change Locations](#)

Optional Filters:

# Graph Generator Disposition Filters

Disposition

- Discharged
- Observation
- Admitted
- Admitted - Psych
- Died
- Transferred
- Left Without Advice
- Left AMA / Discontinued Care
- Other
- Unknown/Missing

Insurance Coverage

Check All

- Insurance Co.
- Medicare
- Medicaid
- Worker's Comp.
- Other Gov't.
- Self-pay
- No charge
- Other
- Unknown/Missing

Transport Mode

Check All

- Ground ambulance
- Helicopter ambulance
- Fixed-wing air ambulance
- Ambulance, NOS
- Walk-in, private transport
- Walk-in, public transport
- Walk-in, LE transport
- Walk-in, NOS
- Other
- Unknown/Missing

## Graph Options

Stratify Data By:

Definition

X-Axis options:

Date Week Month

Y-Axis options:

Counts Percentage of Total

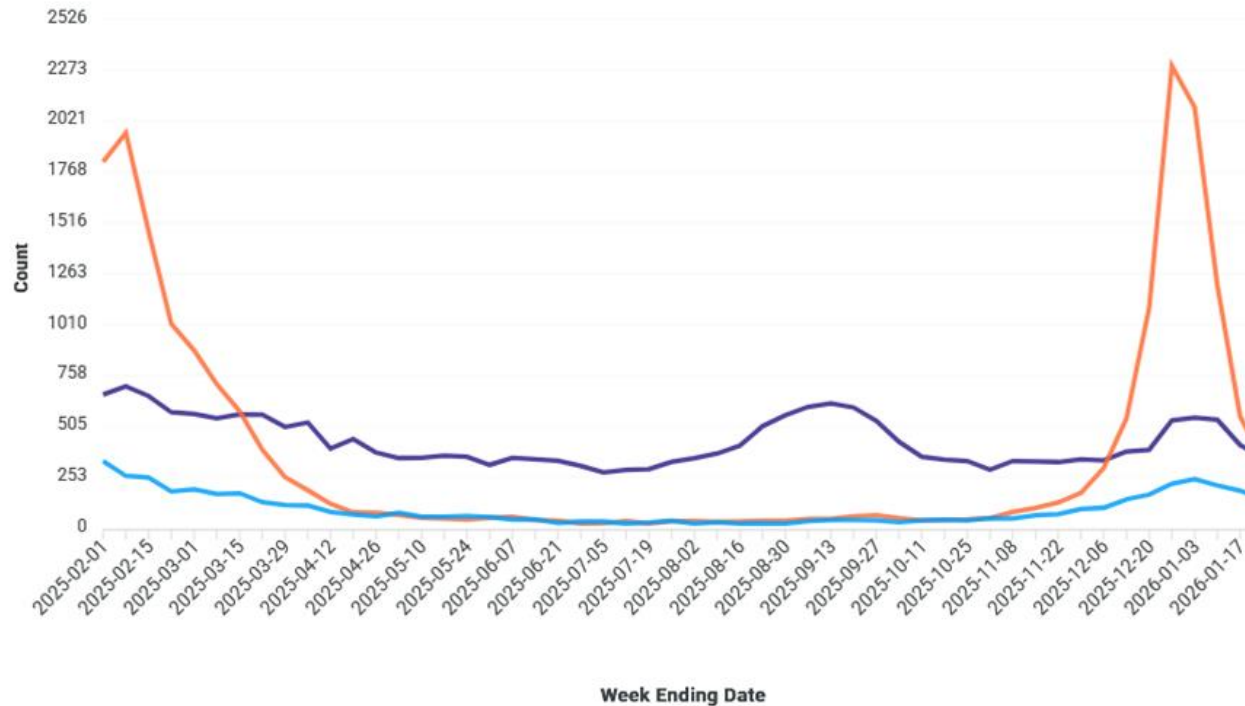
Generate Graph

# Admitted/Transferred Respiratory Counts

Download Graph

## Counts by Definition

Date Range: 1/26/2025 - 1/24/2026  
County: All NC Counties  
Disposition: Admitted, Admitted - Psych, Transferred  
Source: NC DETECT; Generated: 1/26/2026



● ED: CLI\_No\_Flu (ICD10CM or Keyword) ● ED: Influenza (ICD910CM) ● ED: RSV (ICD910CM or Keyword)

# Heat Maps

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AT-A-GLANCE VIEW OF MULTIPLE SYNDROMES

# NC DETECT Heat Maps Report

**REPORTS**

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### Heat Maps by Location / Syndrome

Select Data Source: **ED** EMS HIE-I UC NCPC DEATHS

Definition Options: [Select/Change Definitions](#)

**Selected Definitions:**

Date Range: From 01/16/2026 To 01/26/2026

Location Options: Search by Standard/Custom Locations: **Standard Locations** Custom Locations

Select Location Type: **County** Region Hospital

Location: [Change Locations](#)

Optional Filters: Yes **No**

Stratify Data By: **Definition** County

X-Axis options: **Date** Week Month

Heat Map Coloring: **Row Specific** Entire Table

**Generate Heat Map**

# Heat Maps: Select Syndromes

## Heat Maps

### Search Criteria:

- **Definition:** ED: Injury: Alcohol Intoxication or Poisoning (ICD910CM), ED: Injury: Alcohol-Related (ICD10CM or Keyword), ED: Injury: CO Poisoning (ICD910CM or Keyword), ED: Injury: CO Poisoning - EPHT (ICD910CM), ED: Injury: Cold Exposure (ICD910CM or Keyword), ED: Injury: Falls - Unintentional (ICD910CM), ED: Injury: Transport - MVT All (ICD10CM), ED: Injury: Transport - MVT Pedestrian (ICD910CM), ED: Injury: Winter Weather Injuries (ICD910CM or Keyword), ED: Substance Use: Cannabis Edible (Keyword)
- **Date Range:** 1/23/2026 - 2/2/2026
- **Hospital:** All NC DETECT Hospitals

### Heat Map of Syndrome Counts

Date Range: 1/23/2026 - 2/2/2026  
 Hospital: All NC DETECT Hospitals  
 Source: NC DETECT; Generated: 2/4/2026

ED: Alcohol Intoxication or ...	98	99	63	54	52	61	74	97	75	39	46
ED: Alcohol-Related (ICD10...	199	170	117	133	134	157	174	189	126	81	120
ED: CO Poisoning (ICD910C...	4	4	2	23	8	2	3	3	2	15	12
ED: CO Poisoning - EPHT (...)	1	4	0	9	6	2	0	0	1	5	6
ED: Cold Exposure (ICD910...	37	51	63	53	74	50	50	48	77	121	80
ED: Falls - Unintentional (L...	813	686	702	986	1519	1606	1463	1446	1130	1090	1333
ED: Transport - MVT All (IC...	335	188	127	182	232	258	265	293	203	119	207
ED: Transport - MVT Pedest...	7	3	0	2	1	1	4	2	7	0	1
ED: Winter Weather Injuri...	13	14	297	350	569	645	552	490	404	463	470
ED: Cannabis Edible (Keyword)	7	4	6	4	7	5	3	7	1	1	4
	2026-01-23	2026-01-24	2026-01-25	2026-01-26	2026-01-27	2026-01-28	2026-01-29	2026-01-30	2026-01-31	2026-02-01	2026-02-02

# ED Custom Search

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# NC DETECT ED Custom Search Report

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## ED Custom Search

[Hide Search Parameters](#) [Go back to my Table of Definitions](#)

Data Source: **ED**

From:

Date Range: To:

Location Options:

Search by Standard/Custom Locations: **Standard Locations** Custom Locations

Select Location Type: **County** Hospital

Location:  [Change Locations](#)

Optional Filters: **Yes** No

Custom Search Options:

Search by Keywords: **Yes** No

Search by Diagnosis Codes: **Yes** No

# Medetomidine Withdrawal Syndrome

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Morbidity and Mortality  
Weekly Report (*MMWR*)

Search



## *Notes from the Field: Suspected Medetomidine Withdrawal Syndrome Among Fentanyl-Exposed Patients — Philadelphia, Pennsylvania, September 2024–January 2025*

Weekly / May 1, 2025 / 74(15);266–268

# Medetomidine Custom Search

Search by Keywords:

Yes  No

Keyword Search Option:

Chief Complaint Only

Chief Complaint and Triage Notes

Enter your search terms:

Please note that your search must adhere to specific syntax in order to work properly. Please refer to the [guidance document](#) for proper definition format. Use OR for terms if you want results for any of the terms listed. Use AND if you want the results to include all of the terms in your AND statement. For example, if you want to see ED visits that mention fever AND cough or sore throat, you would enter your query as follows: fever AND (cough OR "sore throat") :

Medetomidine|

Enter any exclusion terms separated by OR:

Search by Diagnosis Codes:

Yes  No

# Medetomidine Custom Search Results

## ED Custom Search

[Show Search Parameters](#)

[Go back to my Table of Definitions](#)

**No results.** Please change your search criteria and do a new search.

### Search Criteria

- Data Source: ED
- Date Range: 1/1/2025 - 1/26/2026
- County: Wake

### Custom Search Definition

**Note:** Remember to save any definitions that you want to keep before you do a new search. To save this definition, click on Show Search Parameters and then click on one of the Save options available below your search criteria.

**Definition Name:**

**Definition Details:**

- **Keyword Search Option:** Chief Complaint and Triage Notes
- **Keywords:** Medetomidine

# Fentanyl and "withdr\*"

Search by Keywords:

Yes No

Keyword Search Option:

Chief Complaint Only

Chief Complaint and Triage Notes

Enter your search terms:

Please note that your search must adhere to specific syntax in order to work properly. Please refer to the [guidance document](#) for proper definition format. Use OR for terms if you want results for any of the terms listed. Use AND if you want the results to include all of the terms in your AND statement. For example, if you want to see ED visits that mention fever AND cough or sore throat, you would enter your query as follows: fever AND (cough OR "sore throat") :

fentanyl and "withdr\*"

Enter any exclusion terms separated by OR:

Search by Diagnosis Codes:

Yes No

# Custom Search: Fentanyl AND “withdr\*”

Chief complaint	Triage note	ICD Codes
high bp	Nurse Comment: Pt arrived in custody with corrections officer with c/c of abdominal pain that has gotten worse today. Pt endorsed abd pain, nausea with 1 episode of vomiting today. The pt stated that he is <b>withdrawing</b> from <b>fentanyl</b> as well ... but states he has been getting doses of ativan from the prison, last dose yesterday. Respirations equal and unlabored, skin warm dry and intact. GCS 15.	N18.9 Chronic kidney disease, unspecified ; R11.2 Nausea with vomiting, unspecified ; N17.9 Acute kidney failure, unspecified ; R10.9 Unspecified abdominal pain
<b>withdrawls</b>	"Pt arrives via FC EMS from home for cc of <b>fentanyl withdrawal</b> . Last time the patient used was 24 hours ago. Pt arrives A&O x 4, tachypneic, and tachycardic. Patient is diaphoretic and slight tremors.	...G92.9 Unspecified toxic encephalopathy ; I10 Essential (primary) hypertension ; F14.90 Cocaine use, unspecified, uncomplicated ; E87.6 Hypokalemia ; ... F32.9 Major depressive disorder, single episode, unspecified ; F19.10 Other psychoactive substance abuse, uncomplicated ; A48.3 Toxic shock syndrome ; A41.9 Sepsis, unspecified organism ; F11.23 Opioid dependence with withdrawal ; ...

# ICD-10-CM Diagnosis Code Custom Search

Search Diagnosis Codes:

Yes

No

Search Diagnosis Codes Option:

Enter diagnosis codes

Use our diagnosis code selector

- Use the left panel to select codes. Search codes using the filter, click the left side box in a row to select a code. To select all codes on the current page, click in the box on the column header row.
- The selected codes are listed on the right panel. Use View Definition to view definition for the selected codes.
- To remove selected codes, uncheck the codes on the left panel, or use Delete on the right panel. Use Clear All Selected Diagnosis Codes to clear all selected codes.

## Select Diagnosis Codes:

<input type="checkbox"/>	Diagnosis Code
	Q withdrawal
	Q withdrawal
<input type="checkbox"/>	F10.939 - Alcohol use, unspecified with withdrawal, unspecified
<input type="checkbox"/>	F11.13 - Opioid abuse with withdrawal
<input type="checkbox"/>	F11.23 - Opioid dependence with withdrawal
<input type="checkbox"/>	F11.93 - Opioid use, unspecified with withdrawal
<input type="checkbox"/>	F12.13 - Cannabis abuse with withdrawal
<input type="checkbox"/>	F12.23 - Cannabis dependence with withdrawal
<input type="checkbox"/>	F12.93 - Cannabis use, unspecified with withdrawal
<input type="checkbox"/>	F13.13 - Sedative, hypnotic or anxiolytic abuse with withdrawal
<input type="checkbox"/>	F13.130 - Sedative, hypnotic or anxiolytic abuse with withdrawal, uncomplicated

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## Selected Diagnosis Codes:

No Selected Diagnosis Codes.

# Annotation Reports

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REVIEW “ALERTS” GENERATED BY NC DETECT

# Annotation Reports Search Options

**REPORTS**

- Dashboard
- Overall Counts
- Line Listing
- Table Generator
- Graph Generator
- Heat Maps
- Map Generator
- ED Custom Search
- ED MRN
- Annotation Reports**
- PHE Surveillance
- Peer County Reports

### Create New Events / Add Comments to Signals and Events

Note: To create a new event, run the event annotation report first, and then click on the Create New Event link above the table results.

[Hide Search Parameters](#)

Select Data Source:

Select Annotation Report Type:  Event  EARS Signal  BT Agent / Emerging Threats

Select Syndromes:

Select BT Agent / Emerging Threats:

Date Range:

From:

To:

Location Options:

Search by Standard/Custom Locations:

Select Location Type:

Location: [Change Locations](#)

Select Action Level:  Not Yet Reviewed  Detailed Review - Ongoing  Detailed Review - Complete  Reviewed (No Action Needed)

- **Events:** Created primarily by Hospital-Based PHEs to share information about community acquired infections
- **EARS Signal:** counts in a county or hospital higher than expected
- **BT Agent / Emerging Threats:** single ED visits of potential PH interest

# EARS Signals: Sample Output

## Create New Events / Add Comments to Signals and Events

Note: To create a new event, run the event annotation report first, and then click on the Create New Event link above the table results.

[Show Search Parameters](#)

[Export Results to Excel](#) ( Note: If you have search filters applied to the table(s), only the filtered results will be exported. If you want to export ALL results, [clear all filters on all table](#)

Events	EARS Signals	BT Agent / Emerging Threats					
ED: EARS Signals							
<a href="#">Show Instructions</a>							
Number of Total Records: 53 ( Note: If you have search filters applied to the table, please view the number of filtered records at the bottom of the table. )							
<a href="#">Bulk Edit</a>	<a href="#">Clear All Rows Selected</a>	<a href="#">Clear All Filters</a>					
Tablewide Search...							
<input type="checkbox"/>	Date	Syndrome	County	Syndrome Count	CUSUM Flags	Action Level	Comments
<input type="checkbox"/>	🔍 📅 🔍	🔍	🔍	🔍	🔍	(All) ▾	🔍
<input type="checkbox"/>	1/7/2026	Communicable: Fever Rash (Keyword)	Buncombe	11	C1C2C3	Reviewed (No Action Needed)	<ul style="list-style-type: none"><li>2026-01-14 09:26, Neha Shanker --Syndrome Count: 11 C1C2C3. Reviewed (No Action Needed). One infant patient with rash tested for measles which was negative.</li></ul>
<input type="checkbox"/>	1/6/2026	Communicable: Fever Rash (Keyword)	Cumberland	11	C1C2	Reviewed (No Action Needed)	<ul style="list-style-type: none"><li>2026-01-07 15:52, Neha Shanker --Syndrome Count: 11 C1C2. Reviewed (No Action Needed).</li></ul>
<input type="checkbox"/>	1/4/2026	Communicable: MenEnc (Keyword)	Moore	11	C1C2	Reviewed (No Action Needed)	<ul style="list-style-type: none"><li>2026-01-05 12:04, Neha Shanker --Syndrome Count: 11 C1C2. Reviewed (No Action Needed).</li></ul>

- Click on the Pen Icon to Add Comments / Update Action Level.
- Comments do not trigger other actions.
- Users with access to same locations can view / add to your comments.



# BT Agent / Emerging Threats Examples

Syndrome	Chief complaint	Triage note	ICD Codes
Anthrax	SKIN DISORDER	pt has sore throat and swollen lymph glands in neck for last day. also tonight a small bump to left hand developed a necrotic center. pt has been working with sheep carcasses this past week adn is worried about <b>anthrax</b> .	
Measles	RASH	Fever Tues thru Thurs, seen at peds, started with rash on head today, mom concerned for <b>measles</b> , was at water park recently	B09 Unspecified viral infection characterized by skin and mucous membrane lesions ; R21 Rash and other nonspecific skin eruption
Viral Encephalitis	Slurred Speech	Patient presents to ED with mother due to slurred speech, numbness in hands, confusion around . Was recently Dc'ed Tuesday with <b>La Crosse encephalitis</b> .	R47.89 Other speech disturbances ; R47.9 Unspecified speech disturbances ; Z86.61 Personal history of infections of the central nervous system ; R51.9 Headache, unspecified

# Predesigned Dashboards

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# Predesigned Dashboard Search Options

**REPORTS**

- Dashboard
- Predesigned Dashboards**
- Overall Counts
- Line Listing
- Table Generator
- Graph Generator
- Heat Maps
- Map Generator
- ED Custom Search
- ED MRN
- Annotation Reports
- PHE Surveillance
- Peer County Reports

### Predesigned Dashboards

Note: Use the Change Default Parameters link below to change the date range and other output options for the dashboards.

Dashboard Options: [Check All](#) [Uncheck All](#)

Data Quality  Respiratory  Firearm  Overdose  Mental Health  Disaster

Select Data Source: **ED** UC

Location Options:

Search by Standard/Custom Locations: **Standard Locations** Custom Locations

Select Location Type: **County** Hospital

Location: [Hide Location Selector](#)

**Location Selector:**

- Use the left panel to select locations. Search locations using the filter, click the left side box in a row to select a location. To select all locations on the current page, click in the box on the column header row.
- The selected locations are listed on the right panel.
- To remove selected locations, uncheck the locations on the left panel, or use Delete on the right panel. Use Clear All Selected locations to clear all selected locations.

Select Locations:	
<input checked="" type="checkbox"/>	Location
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Wake

Selected Locations:	
Total Number of Selected Locations: 1	
Wake	Delete

[Clear All Selected Locations](#)

10 50 100 200 **300** Showing page 1 of total 1 pages ( 1 locations ) < 1 >

- Peer County Reports
  - County-Level Table Generator
  - County-Level Graph Generator
  - County-Level Predesigned Dashboard**

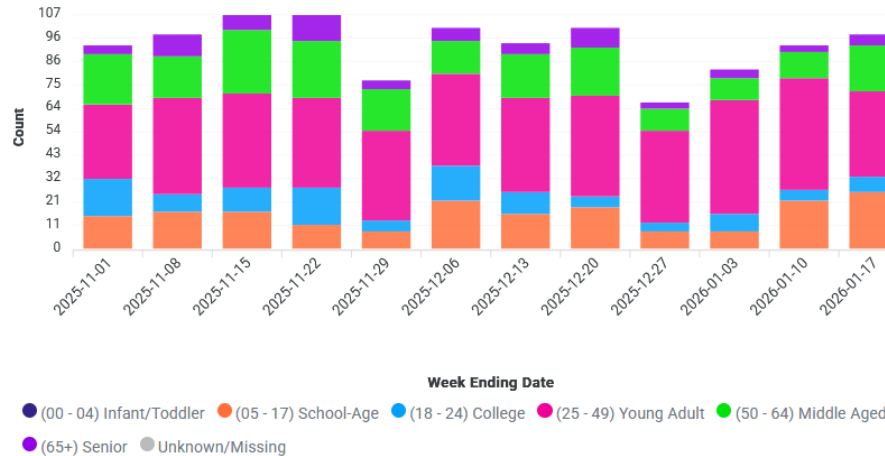
Parameters: [Change Default Parameters](#)

Search

# Predesigned Dashboard: Mental Health

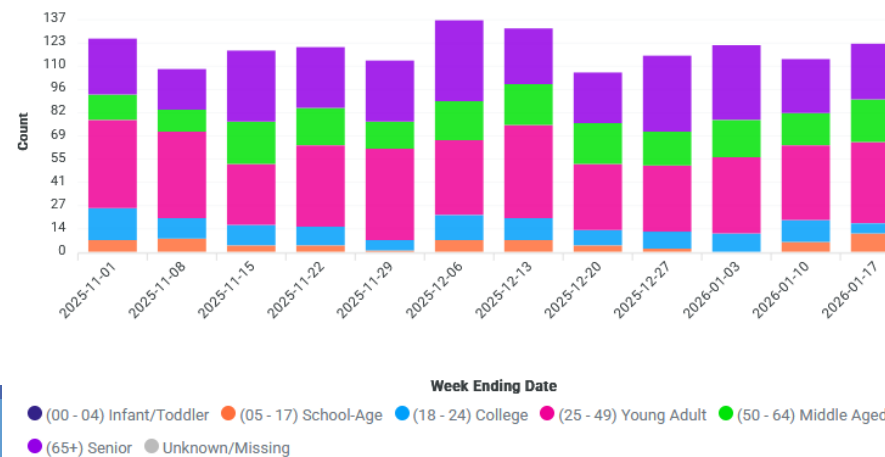
## ED: Mental Health: Suicidal Ideation (ICD-9/10-CM) Counts Grouped by Age Group

Date Range: 10/26/2025 - 1/17/2026  
 County: Wake  
 Source: NC DETECT, Generated: 1/26/2026



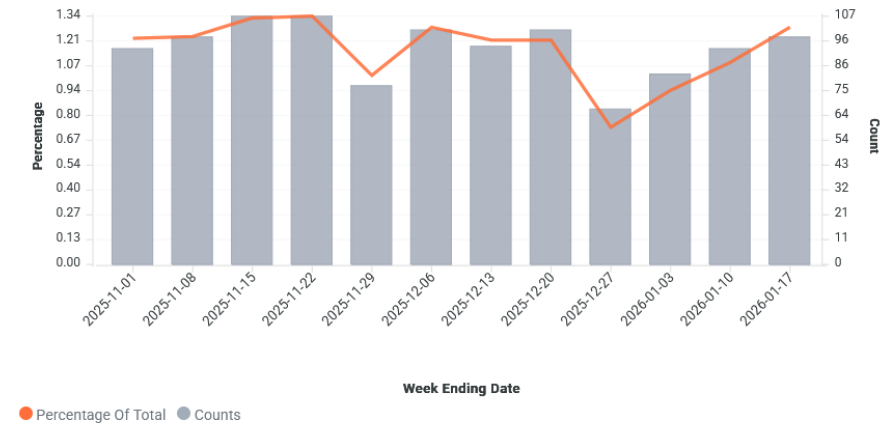
## ED: Mental Health: Anxiety Disorders (ICD-10-CM) Counts Grouped by Age Group

Date Range: 10/26/2025 - 1/17/2026  
 County: Wake  
 Source: NC DETECT, Generated: 1/26/2026



## ED: Mental Health: Suicidal Ideation (ICD-9/10-CM) Percentage of Total ED Visits Grouped by Week

Date Range: 10/26/2025 - 1/17/2026  
 County: Wake  
 Source: NC DETECT, Generated: 1/26/2026



# Questions?

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