

N.C. Department of Health and Human Services

Injury and Violence Prevention Branch

Data and Surveillance

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The Injury and Violence Prevention Branch Surveillance Unit maintains statewide injury and violence related surveillance by providing emergency department, hospital discharge, mortality, and survey data to monitor the incidence of and risk factors for fatal and nonfatal injury.

The branch provides this information to North Carolina's health professionals, citizens, lawmakers and others interested in injury and violence prevention in the state. Injury and violence surveillance data provide the epidemiologic foundation for

effective, data-driven injury and violence prevention and intervention planning. The unit compiles information from several on-going and regularly collected data systems.

In addition, the Injury Surveillance Unit:

- **Monitors the injury landscape:** Collects, analyzes, and interprets injury morbidity and mortality data to characterize the burden of injury in North Carolina; learns from community partners to further assess the burden of injury in North Carolina.
- **Assures and improves data quality:**
 - Monitors the completeness, timeliness, and quality of core data sources for appropriate use in injury surveillance and internal data processing and quality improvement procedures.
 - Builds and maintains a strong data infrastructure for injury surveillance
- **Expands injury surveillance:** In keeping with best practices (PH 3.0), continues to expand surveillance activities on mechanisms of injury and through the incorporation of and linkage to additional data sources.
- **Disseminates data:** Disseminates data to injury prevention stakeholders and responds to data requests.
- **Shares and acts for injury prevention:** Produces periodic surveillance updates and data reports related to injury intervention program progress and effectiveness, and in coordination with Statewide Injury Strategic Plan and other cooperative agreements.
- **Assesses and acts for equity:** Assesses and acts to improve our data products, training, and surveillance practices to better incorporate equity considerations, including but not limited to the surveillance of health disparities and centering the needs of marginalized populations and various sociodemographic groups.

Data System Reports

- [BRFSS \(BRFSSInjuryData.htm\)](#) (Behavioral Risk Factor Surveillance System)
- [CHAMP \(CHAMPInjuryData.htm\)](#) (Child Health Assessment and Monitoring Program)
- [YRBS \(YRBSInjuryData.htm\)](#) (Youth Risk Behavior Survey)
- [PRAMS \(PRAMSData.htm\)](#) (Pregnancy Risk Assessment Monitoring System)
- [NC DETECT \(http://ncdetect.org/\)](http://ncdetect.org/) (North Carolina Disease Event Tracking and Epidemiologic Collection Tool);
 - [NC DETECT fact sheets \(http://ncdetect.org/fact-sheets/\)](http://ncdetect.org/fact-sheets/)

General Injury Data

Injury Surveillance Technical Notes – Provides an overview on injury surveillance methods and data sources

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
North Carolina Injury & Violence Prevention Branch

Core Injury Surveillance Technical Notes

This document is a detailed resource to accompany core injury surveillance data dissemination materials produced by the Injury and Violence Prevention Branch (IVPB). The document provides more specific information about the data sources, methodology, surveillance case definitions, and other relevant information to effectively interpret and use data products produced by the IVPB.

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[\(/DataSurveillance/Technical-Notes.pdf\)](/DataSurveillance/Technical-Notes.pdf)

ICD-10-CM Coding Transition Overview – Describes important changes to the structure of hospitalization and emergency department data and the impact on injury surveillance.

ICD-10-CM Coding Transition
Impacts to Injury Surveillance in North Carolina

What is the ICD-10-CM transition?

- On October 1, 2015, the International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), replaced the Ninth Revision (ICD-9-CM) for coding diagnosis and other information in hospital discharge (HS), emergency department (ED), and outpatient records.

How does the transition affect injury surveillance?

- The ICD-10-CM classification has been expanded to capture more detail, and contains almost 3 times the number of codes compared to ICD-9-CM. This is particularly problematic when it comes to injury, where the number of relevant codes has jumped from 2,688 in ICD-9-CM to 43,388 in ICD-10-CM. In addition, the code structure, specificity, and what is captured in some diagnosis codes has changed, impacting how these codes are interpreted for injury surveillance programs.

What do I need to keep in mind when using ICD-10-CM coded data?

- ICD-10-CM coded injury data are not comparable to ICD-9-CM coded injury data.
- The ICD-10-CM coded data offer more specific information. Because of this, some of the categories within the external cause codes are different from previous years.
- The injury community is still working on this topic. Clear definitions and external cause categories being used for surveillance are subject to change.
- The transition occurred in the last quarter of 2015, impacting the quality of the 2015 ED and HS injury data. Currently, guidance is not available on how to handle 2015 ED and HS data, which contain both ICD-9-CM and ICD-10-CM coding. Therefore, the Injury and Violence Prevention Branch is not releasing these data at this time.

If you have any questions contact:

South Piedmont
North Piedmont
Western Piedmont

Regional Health Services Support
North Carolina Health Services Support
South Carolina Health Services Support
Virginia Health Services Support

Programs/Departments for Processing Injury Data using ICD-10-CM External Cause of Injury Codes
ICM Services

[\(/DataSurveillance/ICD-10-Transition-1pg-Summary.pdf\)](/DataSurveillance/ICD-10-Transition-1pg-Summary.pdf)

[\[+\] Expand All Items Below](#) | [\[-\] Collapse All Items Below](#)

- Leading Causes of Injury Death, Hospitalization and Emergency Department Visit Data - Updated 03/04/22

Leading Causes of Injury in North Carolina, 2020
[\(/DataSurveillance/LeadingCausesofInjury2020.pdf\)](/DataSurveillance/LeadingCausesofInjury2020.pdf) (PDF, 909 KB) – Data slides that provide an overview of the leading causes of injury death, hospitalizations, and

emergency department visits for North Carolina residents in 2020.

+ Archived Data

Top 5 Leading Causes of Injury by County - Updated 03/05/21

These reports show the top five causes of injury deaths, hospitalizations, and emergency department (ED) visits by county, and are presented by age group.

2016-2019 - Updated 03/05/21

- [All Ages: Leading Causes of Injury Death, Hospitalization, and ED Visits by County, 2016-2019 \(/DataSurveillance/Top5TablesByCounty2016_2019Final.pdf\)](#) (PDF, 5.54 MB)
- [Ages 0-14: Leading Causes of Injury Death, Hospitalization, and ED Visits by County, 2016-2019 \(/DataSurveillance/Top5TablesByCounty2016_2019_ages0-14Final.pdf\)](#) (PDF, 5.09 MB)
- [Ages 0-17: Leading Causes of Injury Death, Hospitalization, and ED Visits by County, 2016-2019 \(/DataSurveillance/Top5TablesByCounty2016_2019_ages0-17Final.pdf\)](#) (PDF, 8.68 MB)
- [Ages 18+: Leading Causes of Injury Death, Hospitalization, and ED Visits by County, 2016-2019 \(/DataSurveillance/Top5TablesByCounty2016_2019_Adults18upFinal.pdf\)](#) (PDF, 5.75 MB)
- [Ages 15-34: Leading Causes of Injury Death, Hospitalization, and ED Visits by County, 2016-2019 \(/DataSurveillance/Top5TablesByCounty2016_2019_ages15-34Final.pdf\)](#) (PDF, 6.93 MB)
- [Ages 35-64: Leading Causes of Injury Death, Hospitalization, and ED Visits by County, 2016-2019 \(/DataSurveillance/Top5TablesByCounty2016_2019_ages35-64Final.pdf\)](#) (PDF, 6.39 MB)
- [Ages 65+: Leading Causes of Injury Death, Hospitalization, and ED Visits by County, 2016-2019 \(/DataSurveillance/Top5TablesByCounty2016_2019_ages65upFinal.pdf\)](#) (PDF, 6.39 MB)

Statewide Leading Causes of Injury - Updated 05/18/22

These reports include charts of statewide leading causes of injury by age group and tables showing statewide leading causes of injury by age, gender, and race/ethnicity for death certificate, hospitalization, and ED visit data.

Death Data: Leading Causes of Injury Death by Age, Gender, and Race/Ethnicity

[Leading Causes of Injury Death Chart by Age 2019 \(/DataSurveillance/LC-InjuryDeathChart-2019.pdf\)](#) (PDF, 255 KB)

[Leading Causes of Injury Death Chart by Age 2018 \(/DataSurveillance/LC-InjuryDeathChart-2018.pdf\)](#) (PDF, 255 KB)

[Leading Causes of Injury Death Chart by Age 2017 \(/DataSurveillance/LC-InjuryDeathChart-2017.pdf\)](#) (PDF, 262 KB)

[Leading Causes of Injury Death Chart by Age 2016 \(/DataSurveillance/LC-InjuryDeathChart-2016.pdf\)](#) (PDF, 263 KB)

[Leading Causes of Injury Death Tables by Age, Gender, and Race/Ethnicity 2019 \(/DataSurveillance/LC-InjuryDeathTable-2019.pdf\)](#) (PDF, 289 KB)

Leading Causes of Injury Death Tables by Age, Gender, and Race/Ethnicity 2018 (/DataSurveillance/LC-InjuryDeathTable-2018.pdf) (PDF, 290 KB)
Leading Causes of Injury Death Tables by Age, Gender, and Race/Ethnicity 2017 (/DataSurveillance/LC-InjuryDeathTable-2017.pdf) (PDF, 289 KB)
Leading Causes of Injury Death Tables by Age, Gender, and Race/Ethnicity 2016 (/DataSurveillance/LC-InjuryDeathTable-2016.pdf) (PDF, 289 KB)
Hospitalization Data: Leading Causes of Injury Hospitalizations by Age, Gender, and Race/Ethnicity
Leading Causes of Injury Hospitalization Chart by Age 2019 (2019-LC-InjuryHospitalizationchart.pdf) (PDF, 256 KB)
Leading Causes of Injury Hospitalization Chart by Age 2018 (2018-LC-InjuryHospitalizationChart.pdf) (PDF, 257 KB)
Leading Causes of Injury Hospitalization Chart by Age 2017 (2017-LC-InjuryHospitalizationChart.pdf) (PDF, 256 KB)
Leading Causes of Injury Hospitalization Chart by Age 2016 (2016-LC-InjuryHospitalizationChart.pdf) (PDF, 256 KB)
Leading Causes of Injury Hospitalization Tables by Age, Gender, and Race/Ethnicity 2019 (2019-LC-InjuryHospitalizationTables.pdf) (PDF, 291 KB)
Leading Causes of Injury Hospitalization Tables by Age, Gender, and Race/Ethnicity 2018 (2018-LC-InjuryHospitalizationTables.pdf) (PDF, 291 KB)
Leading Causes of Injury Hospitalization Tables by Age, Gender, and Race/Ethnicity 2017 (2017-LC-InjuryHospitalizationTables.pdf) (PDF, 291 KB)
Leading Causes of Injury Hospitalization Tables by Age, Gender, and Race/Ethnicity 2016 (2016-LC-InjuryHospitalizationTables.pdf) (PDF, 291 KB)
NC DETECT Emergency Department (ED) Data: Leading Causes of Injury ED Visits by Age, Gender, and Race/Ethnicity
Leading Causes of Injury ED Visits Chart By Age 2019 (2019-LC-Injury-ED-Chart.pdf) (PDF, 255 KB)
Leading Causes of Injury ED Visits Chart By Age 2018 (2018-LC-Injury-ED-Chart.pdf) (PDF, 255 KB)
Leading Causes of Injury ED Visits Chart by Age 2017 (2017-LC-Injury-ED-Chart.pdf) (PDF, 255 KB)
Leading Causes of Injury ED Visits Chart by Age 2016 (2016-LC-Injury-ED-Chart.pdf) (PDF, 255 KB)
Leading Causes of Injury ED Visits Tables by Age, Gender, and Race/Ethnicity 2019 (/DataSurveillance/2019-LC-Injury-ED-Table.pdf) (PDF, 290 KB)
Leading Causes of Injury ED Visits Tables by Age, Gender, and Race/Ethnicity 2018 (/DataSurveillance/2018-LC-Injury-ED-Table.pdf) (PDF, 290 KB)
Leading Causes of Injury ED Visits Tables by Age, Gender, and Race/Ethnicity 2017 (/DataSurveillance/2017-LC-Injury-ED-Table.pdf) (PDF, 290 KB)
Leading Causes of Injury ED Visits, Tables by Age and Gender, 2016 (/DataSurveillance/LC_Injury_ETable_2016_Revised.pdf) (PDF, 286 KB)

+ Archived Data

- Intent and Mechanism of Injury Death, Hospitalization and Emergency Department Visit Data - Updated 06/06/22

State Injury Mechanism and Intent ORION Reports

These ORION reports include statewide data on injury deaths, hospitalizations, and ED visits broken out by injury mechanism and injury intent.

Death Data: Intent and Mechanism Statewide

[Injury Deaths by Intent and Mechanism, Statewide 2020 \(ORION/Death-Injuries-in-NorthCarolina-in-2020-for-all-Mechanisms-All-Intent-by-Intent.pdf\)](#) (PDF, 375 KB)

[Injury Deaths by Intent and Mechanism, Statewide 2019 \(DeathInjuries-NorthCarolina-2019-Mechanisms-AllIntent.pdf\)](#) (PDF, 251 KB)

Injury Deaths by Intent and Mechanism, Statewide 2018 (DeathInjuries-NorthCarolina-2018-Mechanisms-AllIntent.pdf) (PDF, 250 KB)
Injury Deaths by Intent and Mechanism, Statewide 2017 (DeathInjuries-NorthCarolina-2017-Mechanisms-AllIntent.pdf) (PDF, 250 KB)
Injury Deaths by Intent and Mechanism, Statewide 2016 (DeathInjuries-NorthCarolina-2016-Mechanisms-AllIntent.pdf) (PDF, 250 KB)
Hospitalization Data: Intent and Mechanism Statewide
Injury Hospitalizations by Intent and Mechanism, Statewide 2020 (ORION/Hospital-Injuries-in-NorthCarolina-in-2020-for-all-Mechanisms-All-Intent-by-Intent.pdf) (PDF, 376 KB)
Injury Hospitalizations by Intent and Mechanism, Statewide 2019 (HospitalInjuries-NorthCarolina-2019-allMechanisms-AllIntent.pdf) (PDF, 252 KB)
Injury Hospitalizations by Intent and Mechanism, Statewide 2018 (HospitalInjuries-NorthCarolina-2018-allMechanisms-AllIntent.pdf) (PDF, 251 KB)
Injury Hospitalizations by Intent and Mechanism, Statewide 2017 (HospitalInjuries-NorthCarolina-2017-allMechanisms-AllIntent.pdf) (PDF, 251 KB)
Injury Hospitalizations by Intent and Mechanism, Statewide 2016 (HospitalInjuries-NorthCarolina-2016-allMechanisms-AllIntent.pdf) (PDF, 251 KB)
NC DETECT Emergency Department (ED) Data: Intent and Mechanism Statewide
Injury ED Visits by Intent and Mechanism, Statewide 2020 (ORION/ED-Injuries-in-NorthCarolina-in-2020-for-all-Mechanisms-All-Intent-by-Intent.pdf) (PDF, 376 KB)
Injury ED Visits by Intent and Mechanism, Statewide 2019 (ED-Injuries-NorthCarolina-2019-Mechanisms-AllIntent.pdf) (PDF, 252 KB)
Injury ED Visits by Intent and Mechanism, Statewide 2018 (ED-Injuries-NorthCarolina-2018-Mechanisms-AllIntent.pdf) (PDF, 251 KB)
Injury ED Visits by Intent and Mechanism, Statewide 2017 (ED-Injuries-NorthCarolina-2017-Mechanisms-AllIntent.pdf) (PDF, 251 KB)
Injury ED Visits by Intent and Mechanism, Statewide 2016 (ED-Injuries-NorthCarolina-2016-Mechanisms-AllIntent.pdf) (PDF, 251 KB)

County Injury Mechanism and Intent ORION Reports

These ORION reports include county-level data on injury deaths, hospitalizations, and ED visits from 2016-2020 broken out by injury mechanism and injury intent.

Injury Deaths

Injury Hospitalizations

Injury ED Visits



+ Archived Data

- Injury Data by Topic

Injury and Violence Prevention Branch (and N.C. Partner Agency) Data

- [Alcohol Use \(/DataSurveillance/alcohol.htm\)](/DataSurveillance/alcohol.htm)
- [Behavioral Risk Factor Surveillance System \(BRFSS\) Injury Data \(/DataSurveillance/BRFSSInjuryData.htm\)](/DataSurveillance/BRFSSInjuryData.htm)
- [Bicycle and Pedestrian Crashes \(/DataSurveillance/YRBS/PedestrianandCyclist_MVT_Burden_2008-2012_FINAL.pdf\)](/DataSurveillance/YRBS/PedestrianandCyclist_MVT_Burden_2008-2012_FINAL.pdf) (PDF, 1.3 MB)
- [Child Health Assessment and Monitoring Program \(CHAMP\) Injury Data \(/DataSurveillance/CHAMPInjuryData.htm\)](/DataSurveillance/CHAMPInjuryData.htm)
- [Childhood Injury \(/resources/docs/ChildhoodInjuryReport-2011-2014.pdf\)](/resources/docs/ChildhoodInjuryReport-2011-2014.pdf) (PDF, 4.3 MB)
 - [Infant and Early Childhood Injury, 2014 \(/DataSurveillance/ChildInjury-SER-NC2014-Aug2016.pdf\)](/DataSurveillance/ChildInjury-SER-NC2014-Aug2016.pdf) (PDF, 319 KB)
- [Drowning and Submersion \(/resources/docs/2013BurdenUnintentionalDrowningChildren.pdf\)](/resources/docs/2013BurdenUnintentionalDrowningChildren.pdf) (PDF, 975 KB)
- [Falls \(/DataSurveillance/FallsData.htm\)](/DataSurveillance/FallsData.htm)
- [Firearm Safety Awareness and Education \(/safestorage/index.htm\)](/safestorage/index.htm)
- [Death, Hospitalization, and Emergency Department Visit Data](#)
 - Intent and Mechanism of Death
 - Leading Causes of Injury Death
- [Motor Vehicle Crashes \(/DataSurveillance/MVCData.htm\)](/DataSurveillance/MVCData.htm)
- [Poisonings \(/DataSurveillance/Poisoning.htm\)](/DataSurveillance/Poisoning.htm)
- [Suicides \(/DataSurveillance/SuicideData.htm\)](/DataSurveillance/SuicideData.htm)
- [Traumatic Brain Injury \(/resources/docs/BurdenofTBI2014.pdf\)](/resources/docs/BurdenofTBI2014.pdf) (PDF, 865 KB)
 - [Traumatic Brain Injuries, 2014 \(/DataSurveillance/TBI-SpecialEmphasisReport-NC2014.pdf\)](/DataSurveillance/TBI-SpecialEmphasisReport-NC2014.pdf) (PDF, 721 KB)
- [Violent Deaths \(/DataSurveillance/ViolentDeathData.htm\)](/DataSurveillance/ViolentDeathData.htm)
- [Youth Risk Behavior Survey \(/DataSurveillance/YRBSInjuryData.htm\)](/DataSurveillance/YRBSInjuryData.htm)

CDC and Other External Source Data

All references are from the Centers for Disease Control and Prevention (CDC) unless otherwise noted.

- [Assault \(http://www.cdc.gov/nchs/FASTATS/homicide.htm\)](http://www.cdc.gov/nchs/FASTATS/homicide.htm)
- [Child Maltreatment \(http://www.cdc.gov/violenceprevention/childmaltreatment/index.html\)](http://www.cdc.gov/violenceprevention/childmaltreatment/index.html)
- [Choking and Strangulation \(SafeKids\) \(http://www.safekids.org/safetytips/field_risks/choking-and-strangulation\)](http://www.safekids.org/safetytips/field_risks/choking-and-strangulation)
- [Emergency Preparedness \(https://emergency.cdc.gov/\)](https://emergency.cdc.gov/)
- [Fire Prevention \(https://www.cdc.gov/homeandrecreationalafety/fire-prevention/index.html\)](https://www.cdc.gov/homeandrecreationalafety/fire-prevention/index.html)
- [Homicide \(http://www.cdc.gov/nchs/FASTATS/homicide.htm\)](http://www.cdc.gov/nchs/FASTATS/homicide.htm)
- [Intimate Partner Violence \(http://www.cdc.gov/violenceprevention/intimatepartnerviolence/index.html\)](http://www.cdc.gov/violenceprevention/intimatepartnerviolence/index.html)
- [Occupational Injury \(http://www.cdc.gov/niosh/docs/2004-146/\)](http://www.cdc.gov/niosh/docs/2004-146/)
- [Sexual Violence \(http://www.cdc.gov/violenceprevention/sexualviolence/index.html\)](http://www.cdc.gov/violenceprevention/sexualviolence/index.html)
- [Sports and Recreational Injury \(http://www.cdc.gov/concussion/sports/\)](http://www.cdc.gov/concussion/sports/)
- [WISQARS \(http://www.cdc.gov/injury/wisqars/\)](http://www.cdc.gov/injury/wisqars/)

- Links to Injury Data and Data Request Policy

To make a **data request** please email the [Injury and Violence Prevention Branch](#) or call 919-707-5425. Please review the [data request policies and procedures \(DataRequestPolicy.htm\)](#) to help us ensure that your requested information is timely, accurate and useful.

There are several sources of injury and violence data available on the web:

The North Carolina State Center for Health Statistics

[\(https://schs.dph.ncdhhs.gov/SCHS/\)](https://schs.dph.ncdhhs.gov/SCHS/) (NC SCHS) is responsible for data collection, health-related research, production of reports, and maintenance of a comprehensive collection of health statistics. They provide high quality health information for making better informed decisions and effective health policies. The goal of the NC SCHS is to improve the health of all North Carolinians and their communities.

[WISQARS \(http://www.cdc.gov/injury/wisqars/\)](http://www.cdc.gov/injury/wisqars/) (Web-based Injury Statistics Query and Reporting System) is an interactive database system from the CDC that provides customized reports of injury-related data. North Carolina specific data is available from WISQARS.

The Inventory of National Injury Data Systems

<http://www.cdc.gov/injury/wisqars/InventoryInjuryDataSys.html> is a list of 45 different federal data systems operated by 16 difference agencies and three private

injury registry systems that provide nationwide injury-related data. Each data system is listed along with the agency or organization and associated web sites.

The Injury and Data Resources (<http://www.cdc.gov/nchs/injury.htm>) website from the CDC provides an overview of injury morbidity and mortality data and statistics available from the National Center for Health Statistics and other sources. These resources provide details on injury surveillance methodology and tools to assist in data analysis.