

Overview of IVPB TBI Data Resources

NCDHHS Division of Public Health, [Injury and Violence Prevention Branch \(IVPB\)](#), Epidemiology, Surveillance, and Informatics (ESI) Unit

Where Can I Find TBI Data?

The Injury and Violence Prevention Branch (IVPB) creates multiple resources to help keep our partners informed about traumatic brain injury (TBI) in NC.

Visit our [Traumatic Brain Injury Data page](#) for annual surveillance updates, statewide summary data, and county-level data on TBIs. This page includes:

- Summary information on TBI-related deaths, hospitalizations, and emergency department (ED) visits in NC
- Data on groups most impacted by TBI
- County level data on TBI, including data on TBI-related fall injuries
- Other TBI data resources and links to TBI prevention information

For help finding the TBI data you need, visit the [NC Injury Data Resource Inventory](#).

This interactive tool helps you identify which website or IVPB data resource has the information that best meets your needs.

Overview of IVPB TBI Data Resources and How to Use Them

TBI Slide Sets

Use the [prepared TBI PowerPoint slides](#) to include TBI data in your next presentation, or as a resource to understand more about TBI in NC.



These slides give a state-level overview of TBI and can be used to:

- Understand which groups are most impacted by TBI, where TBIs are occurring, and how TBI has changed over time in NC.
 - Slides include information on TBI deaths, hospitalizations, and ED visits, with specific data on the causes of TBI, like self-inflicted injuries, falls, and motor vehicle traffic injuries.
 - The slides were created to provide basic data trends and public health surveillance around TBI.



IVPB CREATES AND SHARES THESE RESOURCES TO SUPPORT TBI PREVENTION ACROSS NC.

- Permission is not needed to use any of the posted data in your presentations, manuscripts, reports, and other work.
- If you use IVPB published data, please include a version of the following citation:

NC Department of Health and Human Services, Division of Public Health, Injury & Violence Prevention Branch. "[data resource name]." [webpage data were accessed from]. Accessed [insert access date]. [insert the website address].

- Incorporate TBI data into your own presentations, grant proposals, reports, or any other way they may be useful.
 - Each slide includes detailed notes explaining the information on the slide.
 - Technical notes are included to help with understanding and presenting data.

Fall-Related TBI Maps

Use these [fall-related TBI maps](#) to compare rates of unintentional fall injuries and deaths that also involved TBI across NC counties.

TBI is a common condition surrounding fall injuries, with many fall injuries resulting in a TBI.

- Know where TBI-related fall injuries are happening in the state.
 - Compare rates of TBI-related fall injuries by county. For more information on comparing injury rates, visit [Understanding Counts and Rates](#).
 - Focus prevention and response activities to areas of the state that are most impacted by fall injuries and TBI.
- Maps include data over the most recent five-year period.
- Maps are available for TBI related fall injury deaths, hospitalizations, and ED visits.



Special Emphasis Reports: Traumatic Brain Injuries

Use the [TBI Special Emphasis Report](#) for more detailed data about the cause of TBI and the groups most impacted by TBI in NC.

- Describes the impact, magnitude, and causes of TBI deaths, hospitalizations, and ED visits
- Compares TBI by age and sex, and across race/ethnic groups
- Includes strategies for TBI prevention and activities related to TBI taking place in NC



North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) Mental Health Dashboard

Use the [Mental Health Dashboard](#) to view ZIP, county, and state-level ED visit trends for select mental health-related conditions, including TBI.

- Includes data on ED visits with ICD-10-CM codes for mental health-related conditions, including two indicators for TBI.
 - Standard TBI Indicator – Aligns with what IVPB and CDC use to monitor TBI
 - Broad TBI Indicator – Includes an additional ICD-10-CM code for unspecified head injury (S09.90)
 - This indicator offers a broader view of overall TBI risk.
 - There are almost four times as many ED visits for unspecified head injury as there are for TBI.
 - This indicator should be used alongside the Standard TBI indicator.
 - See [What Should I Know Before Using TBI Data?](#) for more information on unspecified head injury.



- Other Mental Health Indicators – Includes indicators for anxiety, depression, self-inflicted injury, suicidal ideation, and trauma and stressors
- Monitors trends in ED visits for mental health-related conditions annually from 2017 through the most recent complete year of data at multiple geographic levels.
 - Includes data by sex, age group, race, and ethnicity.
- Summarizes insurance coverage for mental-health ED visits by county.

Catastrophic Sports Injury and Illness Prevention Workgroup: Phase I Report

Use the [Workgroup Report](#) to understand causes and prevention opportunities for catastrophic sports injury and illness and to guide safety planning.



- Catastrophic injury or illness are sports-related injuries and conditions that directly result in death, permanent disability, or are life-threatening. Some examples include spinal cord injury, severe TBI, heat stroke, and sudden cardiac arrest.
- The Workgroup Report describes the assessment activities of the Catastrophic Sports Injury and Illness Prevention Workgroup related to catastrophic sports injuries and illness among children in NC.
- Visit the [National Center for Catastrophic Sports Injury Research](#) to report catastrophic sports injury and to learn more about ongoing efforts in this area.

NC Medicaid TBI Dashboard

This dashboard is produced through a collaboration between NCDHHS' Division of Mental Health, Developmental Disabilities and Substance Use Services and Division of Health Benefits.



Use [NC Medicaid TBI Dashboard](#) for data on Medicaid and state-funded program services used by individuals with a TBI diagnosis.

- Includes data on the number of eligible adults who have received services for TBI.
 - Describes the demographic breakdown of those receiving services, including data by age, race, ethnicity, and gender.
 - Data are also summarized by the specific services received and the programs individuals are enrolled in.
- Data in the dashboard are updated twice a year to provide the most recent data available on services for TBI.

Survey Data

Use [NC Behavioral Risk Factor Surveillance System \(BRFSS\)](#) data and [NC Youth Risk Behavior Survey \(YRBS\)](#) data to understand self-reported experiences with TBI.



- NC BRFSS asks adults in NC about their experiences with losing consciousness throughout their lifetime.
 - Questions included in the survey alternate from year-to-year and may change over time.
 - The NC State Center for Health Statistics provides all questionnaires and survey results from the NC BRFSS on the [NC BRFSS website](#).

- YRBS asks middle and high school students in NC about how many times they have experienced a concussion from playing sports or being physically active.
 - The survey is implemented every other year, and questions included in the survey may change over time.
 - Visit [NC Healthy Schools Data](#) for YRBS data.
- For more information on considerations when using survey data to understand TBI, visit [What Should I Know Before Using TBI Data](#).
- For more information about NC BRFSS and NC YRBS data, visit [Data Sources IVPB Uses for Injury Surveillance](#).

Questions About IVPB TBI Data

Contact Us: Email us at InjuryData@dhhs.nc.gov with questions about IVPB TBI data.

Custom Injury Data Requests: Visit the [custom injury data request page](#) for more information on how to request TBI data from IVPB.

Epidemiology Office Hours: [Schedule time to meet with an epidemiologist](#) to discuss data availability, questions, or custom requests.

- See the [custom injury data request page](#) for more details.

TBI Prevention Information

- [Traumatic Brain Injury | DHHS](#) – Visit for information on TBI prevention in NC and the NC TBI State Action Plan.
- [Safe Kids North Carolina](#) – Visit for information on [sports safety](#), [playground safety](#), [falls safety](#), and other resources to prevent injuries among children.
- **Sport-related TBI and the Gfeller-Waller Concussion Awareness Act** – Visit for information on the NC law implemented to protect the safety of student-athletes.
 - [NC Athletic Trainer's Association – Gfeller-Waller Concussion Awareness Act](#)
 - [NC State Board of Education – Policy ATHL-015: Student Health and Safety](#)
- **CDC's web pages on TBI** – Visit for national data and prevention resources.
 - [TBI and Concussion](#)
 - [Preventing TBI](#)
 - [HEADS UP Campaign and related resources](#)



FOR MORE RESOURCES:

Visit our [Injury Data Users Toolkit](#)



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

dph.ncdhhs.gov/injury-and-violence-prevention-branch-data-users-toolkit

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