

Traumatic Brain Injuries in Mississippi Among Children Ages 4 and Younger, 2021-2024

Mortality Rates:

- For the years of 2021-2024, there were 26 (4.6 per 100,000) traumatic brain injury-related deaths among children aged 1 to 4 in Mississippi.
- In 2019, there were 612 deaths (3.1 per 100,000) related to traumatic brain injury among children ages 4 and less in the U.S.¹
- In 2018 and 2019, homicide was the leading cause of traumatic brain injury-related deaths in the U.S. among children ages 4 and less, accounting for 292 deaths (1.5 per 100,000).¹

Emergency Department Discharge Rates: ³

- For the years 2021-2024, there were 1,069 traumatic brain injury-related emergency department discharges among children aged 1 to 4 in Mississippi.
- For the years 2021-2024, in males aged 1 to 4, there were 618 emergency department discharges reported related to a traumatic brain injury in Mississippi.
- For the years 2021-2024, in females aged 1 to 4, there were 460 emergency department discharges reported related to a traumatic brain injury in Mississippi.

What is Traumatic Brain Injury (TBI)? ¹

- TBI is an injury that affects how the brain works.
- Type of TBI includes mild TBI or concussion, moderate TBI and severe TBI.

Prevention Strategies: ¹

- Wear a helmet when riding a bike, playing a contact sport, etc.
- Use a child safety seat in motor vehicle
- Install window guards and stair safety
- Avoid shaking your baby

Causes of TBI: ¹

- Bump, blow or jolt to the head
- Penetrating injury to the head
- Falls
- Unrestrained motor vehicle crashes
- Shaken Baby Syndrome

Symptoms among children 1-4: ²

- Changes in eating or nursing habits; vomiting
- Persistent crying, irritability, or crankiness; inability to be consoled
- Changes in ability to pay attention
- Lack of interest in favorite toy or activity; sadness
- Changes in sleep patterns
- Seizures
- Loss of a skill, such as toilet training
- Loss of balance or unsteady walking

Data Sources:

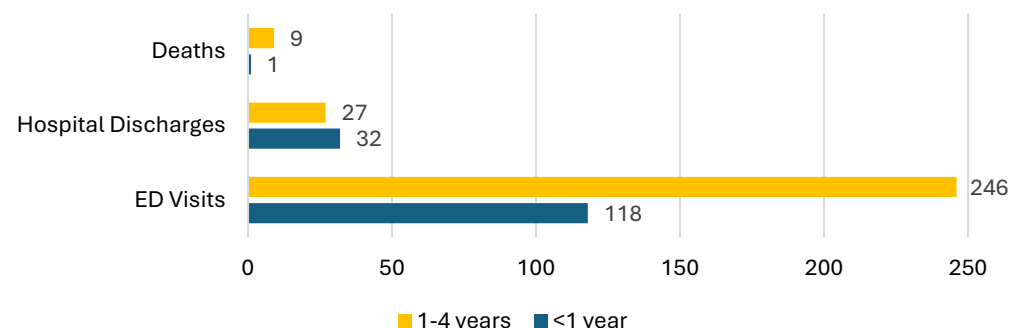
- [Traumatic Brain Injury & Concussion | Traumatic Brain Injury & Concussion | CDC](#)
- [Traumatic Brain Injury \(TBI\) | National Institute of Neurological Disorders and Stroke \(nih.gov\)](#)
- [Vital Statistics - Mississippi State Department of Health \(ms.gov\)](#)

For additional information call the MSDH CORE State Injury Prevention Program Coordinator (SIPP) at 601-206-1556 or visit [Injury Prevention - Mississippi State Department of Health \(ms.gov\)](#)

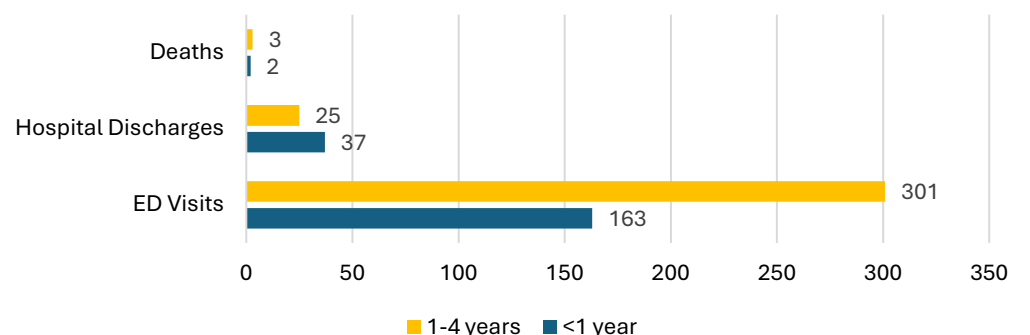
TBI Facts:

- Brain injury is the leading cause of death in children and adolescents in the U.S.¹
- Children ages 4 and less are at greater risk for brain injury.¹
- Falls are the leading cause of TBI death among children ages 4 and less.¹
- Some types of TBI can cause temporary or short-term problems with brain function. More serious TBI can lead to severe and permanent disability, even death. ²

Number of Traumatic Brain Injuries (TBI) by Indicator, 2022



Number of Traumatic Brain Injuries (TBI) by Indicator, 2024



Between 2022 and 2024, TBI-related emergency department visits increased among children ages 4 and younger, while hospital discharges remained relatively stable. TBI-related deaths decreased, particularly among children ages 1-4.