Traumatic Brain Injuries in Mississippi among Children Ages 1-4, 2018-2022

Mortality Rates:

- For the years of 2018-2022, there were 35 (4.8 per 100,000) traumatic brain injury-related deaths among children aged 1 to 4 in Mississippi.³
- 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:

- For the years of 2018-2022, there were 1264 traumatic brain injury-related emergency department discharges among children aged 1 to 4 in Mississippi.
- For the years of 2018-2022, in Blacks aged 1 to 4, there were 326 emergency department discharges reported related to a traumatic brain injury.
- For the years of 2018-2022, in Whites aged 1 to 4, there were 824 emergency department discharges reported related to a traumatic brain injury.

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:

- 1. <u>Traumatic Brain Injury &</u> <u>Concussion | Traumatic Brain Injury</u> <u>& Concussion | CDC</u>
- 2. <u>Traumatic Brain Injury (TBI)</u> <u>National Institute of Neurological</u> Disorders and Stroke (nih.gov)
- 3. Vital Statistics Mississippi State Department of Health (ms.gov)

For additional information call the MSDH CORE State Injury Prevention Program Coordinator (SIPP) at

601-206-1559 or visit <u>Injury Prevention - Mississippi State Department</u> of Health (ms.gov)



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TBI: Must-Know 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 shortterm problems with brain function. More serious TBI can lead to severe and permanent disability, even death2

Number of TBI Emergency Department Discharges, by county in Mississippi, Ages 1-4, 2018-2022³

