



System Report

April 2021 – June 2021

Mississippi Trauma Care System

*Designated Trauma Care Providers
Working Together to Prevent and Treat Trauma*

Prepared for:

Mississippi State Board of Health

September 9, 2021

Introduction

According to the Centers for Disease Control and Prevention, unintentional traumatic injury is the leading cause of death in the United States for persons between the ages of 1 and 44 (WISQARS, 2018). Mississippi is no exception to this statistic. Moreover, in 2018 there were 33,654 motor vehicle crash fatalities in the United States. 597 of these fatalities occurred as a result of injuries sustained on Mississippi roads (FARS, 2020). Motor vehicle crashes are the leading cause of death among the teenage population in the United States (CDC, Teen Driver, 2019). Mississippi ranks 5th in the nation in terms of the number of teens killed in motor vehicle crashes ("Mississippi Fatalities and Injuries for Youth and Adult Highway Crashes," 2017). These statistics are widely circulated and well known, but they reflect the extent to which trauma is a public health concern, not only in the United States, generally, but in Mississippi, specifically.

To improve outcomes for trauma patients, the Mississippi Trauma Care System established the following primary goal: to deliver the *right* patient to the *right* hospital the *first* time. Research supports this approach to trauma care saves lives.

Mississippi's Trauma System dates to 1991, when the Mississippi Legislature charged the Mississippi State Department of Health (MSDH) with responsibility for oversight of trauma system development. The Legislature passed House Bill 966 in 1998, officially establishing Mississippi's Trauma System. The Trauma System of Care Plan and Trauma System Rules and Regulations provide the operational authority and framework for the Trauma System.

MSDH is the lead agency in Trauma System development and execution. MSDH partners with stakeholders throughout the state in carrying out the mission of the Trauma System. Since April 16, 2020, MSDH has contracted with the Mississippi Trauma Care System Foundation, Inc., a foundation of the Mississippi Hospital Association, for specific administration and education services in support of the Trauma System.

As suggested by the Mississippi Trauma Care Task Force, this report on the Mississippi Trauma Care System will be submitted quarterly to the Mississippi State Board of Health.



Trauma - Quarterly Activities

- Mississippi Trauma Advisory Committee meeting via ZOOM
- Statewide Trauma System Performance Improvement Committee meeting via Zoom
- MTAC Registry Subcommittee meeting
- Collaboration meetings with the Mississippi Trauma Care System Foundation
- System development calls with Trauma Registry vendor (Digital Innovations/ESO)
 - Annual updates
 - EMS Data Bridge
 - Report writing

Trauma Center Survey/Education Visits:

- State Health Officer Memo (January 15, 2021)
 - Designation of all currently designated trauma centers extended for one year due to COVID-19
- Designation surveys and in-person education visits tentatively scheduled to resume Calendar Year 2022
- Mississippi Trauma Care System Foundation to offer education/designation preparation services as part of their annual subgrant when designation preparation resumes

Current List of Designated Trauma Centers – 87 Centers

- Three (3) Level I Trauma Centers
 - University of Mississippi Medical Center, Jackson
 - Regional One Medical Center, Memphis
 - University of South Alabama, Mobile
- One (1) Stand-Alone Tertiary Pediatric Trauma Center
 - Le Bonheur Children’s Hospital, Memphis
- Three (3) Level II Trauma Centers
 - Forrest General Hospital, Hattiesburg
 - Memorial Hospital of Gulfport, Gulfport
 - North Mississippi Medical Center, Tupelo
- Sixteen (16) Level III Trauma Centers
 - Anderson Regional Medical Center, Meridian
 - Baptist Memorial Hospital – DeSoto, Southaven
 - Baptist Memorial Hospital – Golden Triangle, Columbus
 - Baptist Memorial Hospital – North Mississippi, Oxford
 - Delta Regional Medical Center, Greenville
 - Garden Park Medical Center, Gulfport
 - Magnolia Regional Health Center, Corinth
 - Merit Health Biloxi, Biloxi
 - Merit Health Central, Jackson
 - Merit Health River Oaks, Flowood
 - Merit Health Wesley, Hattiesburg
 - Ocean Springs Hospital, Ocean Springs
 - OCH Regional Medical Center, Starkville

- Rush Foundation Hospital, Meridian
- Singing River Hospital, Pascagoula
- South Central Regional Medical Center, Laurel
- Sixty-Two (62) Level IV Trauma Centers
- Two (2) Burn Centers:
 - Firefighters Burn Center at RegionalOne Health
 - J.M. Still at Merit Health Central

Mississippi Trauma Advisory Committee (MTAC):

- **MTAC, April 16, 2021 – Regularly Scheduled Quarterly Meeting**
 - Bureau of Acute Care Systems Report – Mr. David Hall
 - Update on status of transition from regionalized to centralized system
 - Update on upcoming TCTF payment
 - Information on EMS Enhanced Reimbursement Program
 - Updated Trauma System documents posted to MSDH Website
 - Update on Trauma System performance improvement process
 - System Aggregate Data Report – Mr. James McManus
 - State Medical Director Report(s) – Dr. W. Duncan Donald
 - Clinical Effectiveness Committee (CEC) & Statewide Trauma System Performance Improvement Committee (STSPIC)
 - CEC to meet soon
 - STSPIC to meet soon
 - Discussion on TQIP Initiative
 - Discussion on Teleconsultation use in the Trauma System
 - Mississippi Trauma Care System Foundation Report – Mr. John Gardner
 - Foundation social media platforms now active
 - Education ongoing, including virtual
 - MHA/Foundation moved to Zoom platform
 - Stop the Bleed – now provided by Foundation staff
 - Details on the upcoming statewide Trauma System Symposium
 - Next year’s symposium already scheduled for May 10, 2022
- **Trauma Registry Subcommittee, April 20, 2021 – Regular Quarterly Meeting**
 - Bureau of Acute Care Systems Report – Mr. David Hall
 - Recognized and thanked trauma registrars for their qualitative work
 - Update on upcoming TCTF distribution payment
 - Agenda Items:
 - Inclusion Criteria
 - Committee Membership
 - TQIP
 - Registry Support Needs
 - 2021 NTDB Data Dictionary
 - Same Height Falls
 - Geriatrics
 - Training on EMS Triage Criteria
 - EMS Transported Following State Protocol

- Cap on Hospital Events
- Duplicate Encounters
- Mr. Hall reminded the subcommittee of statutory obligations to collect and maintain data on TBI/SCI patients – discussion about the prospect of adding minimum data fields for TBI/SCI patients to ensure all hospitals report this data

Trauma Performance Improvement (PI) Program:

- Announcement: Updated PIPS Manual posted to MSDH Website
- Presented Guidance Document for Attending PIC meetings via VTE
- Review of Core Measure Indicators List
- District-level PI subcommittees will be specific to three areas of the state:
 - North – northern state line to Hwy 82
 - Central – between Hwy 82 and Hwy 84
 - South – Hwy 84 to the coast
- Minimum participation expectations for members of all Trauma System PI committees set at 50%
- Vice-chairs may lead meetings in absence of committee chairs

Trauma – Revenue Collections (Previous Quarter)

| Revenue Collected in FY 21 | January | February | March | Total |
|--------------------------------------|---------------------|-----------------------|-----------------------|-----------------------|
| Auto Privilege & Tags Fee | \$875,894.12 | \$1,383,767.44 | \$1,182,598.09 | \$3,442,259.65 |
| Interest Income | \$19,247.03 | \$7,900.16 | \$4,591.37 | \$31,738.56 |
| License Fees & Permits | \$82,493.59 | \$157,013.66 | \$148,553.77 | \$388,061.02 |
| GRAND TOTAL | | | | \$3,862,059.23 |

Trauma Data: (January – March 2021)

Source: MS Trauma Registry

Report: ISS (Injury Severity Score) Counts

Generated 9/8/2021

Arrival Dates 1/1/2021 – 3/31/2021

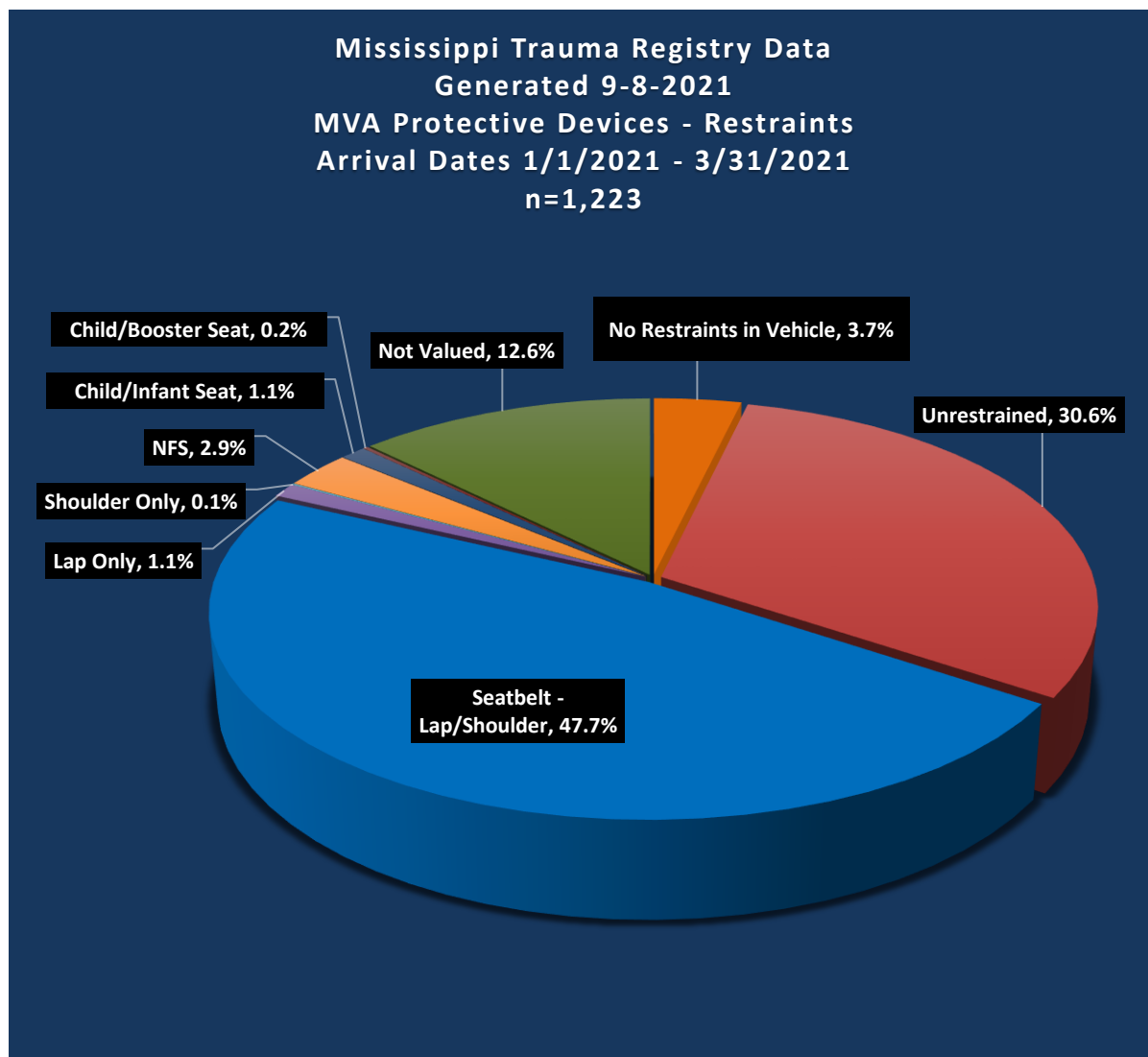
Query: LEVEL_I_III_HOSPS

Population: LEVEL_I_III_HOSPS Level I to III Hospitals

Population: PIPS_RECORD_INCLUSION Records Included in Reports

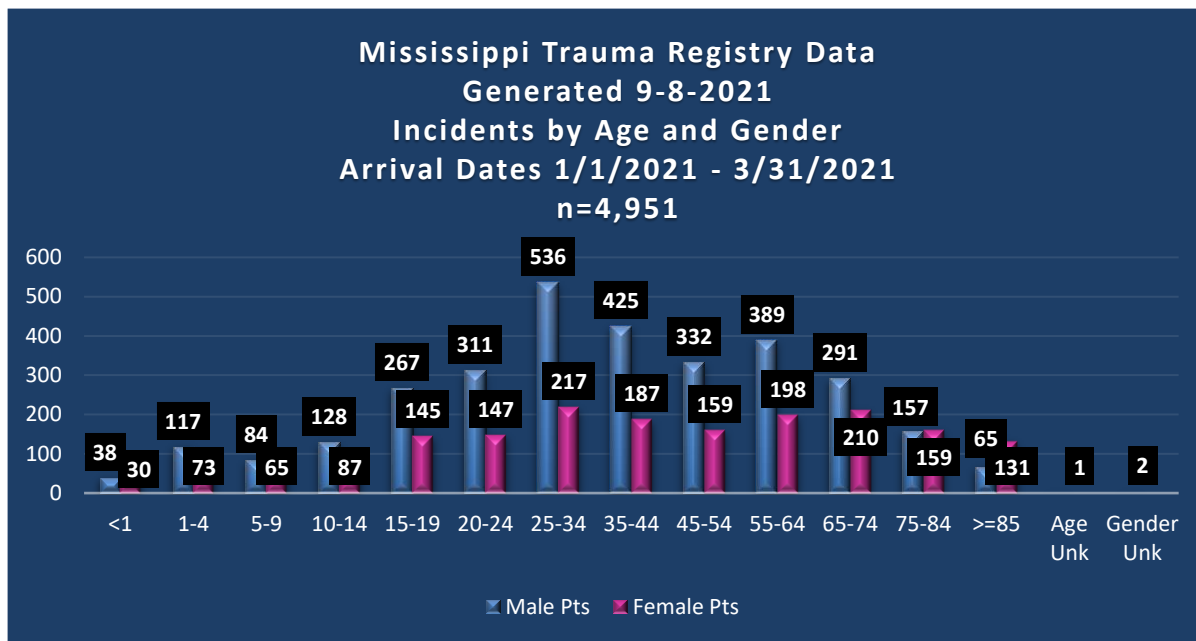
| Hospital | ISS 1-9 | ISS 10-15 | ISS 16-24 | ISS > 24 | ISS NV | Total by Hospital |
|---|------------|--------------|--------------|-------------|-----------|----------------------|
| Anderson Regional Medical Center | 66 | 24 | 9 | 2 | 0 | 101 |
| Baptist Memorial Hospital - Desoto | 207 | 19 | 4 | 6 | 0 | 236 |
| Baptist Memorial Hospital - Golden Triangle | 193 | 14 | 2 | 0 | 4 | 213 |
| Baptist Memorial Hospital - North Miss. | 126 | 13 | 0 | 3 | 0 | 142 |
| Delta Regional Medical Center | 25 | 0 | 1 | 0 | 0 | 26 |
| Forrest General Hospital | 326 | 49 | 37 | 18 | 0 | 430 |
| LeBonheur Children's Medical Center | 71 | 9 | 9 | 5 | 0 | 94 |
| Magnolia Regional Health Center | 60 | 7 | 4 | 4 | 0 | 75 |
| Memorial Hospital at Gulfport | 108 | 16 | 10 | 9 | 0 | 143 |
| Merit Health Biloxi | 41 | 5 | 5 | 3 | 0 | 54 |
| Merit Health Central | 39 | 6 | 2 | 2 | 0 | 49 |
| Merit Health River Oaks | 37 | 2 | 0 | 1 | 0 | 40 |
| Merit Health Wesley | 37 | 5 | 3 | 0 | 0 | 45 |
| North MS Medical Center-Tupelo | 216 | 57 | 22 | 25 | 0 | 320 |
| Ocean Springs Hospital | 86 | 11 | 4 | 0 | 0 | 101 |
| OCH Regional Medical Center | 42 | 10 | 2 | 0 | 0 | 54 |
| Regional One Health | 150 | 37 | 34 | 31 | 1 | 253 |
| Rush Foundation Hospital | 44 | 9 | 4 | 3 | 0 | 60 |
| Singing River Hospital - Gulfport | 62 | 7 | 4 | 2 | 0 | 75 |
| Singing River Hospital - Pascagoula | 88 | 14 | 4 | 3 | 2 | 111 |
| South Central Regional Medical Center | 65 | 25 | 15 | 2 | 0 | 107 |
| University of Mississippi Medical Center | 792 | 220 | 118 | 67 | 4 | 1201 |
| USA Health University Hospital | 72 | 25 | 23 | 22 | 0 | 142 |
| Total by ISS Range | 2953 | 584 | 316 | 208 | 11 | 4072 |

Motor Vehicle Collisions

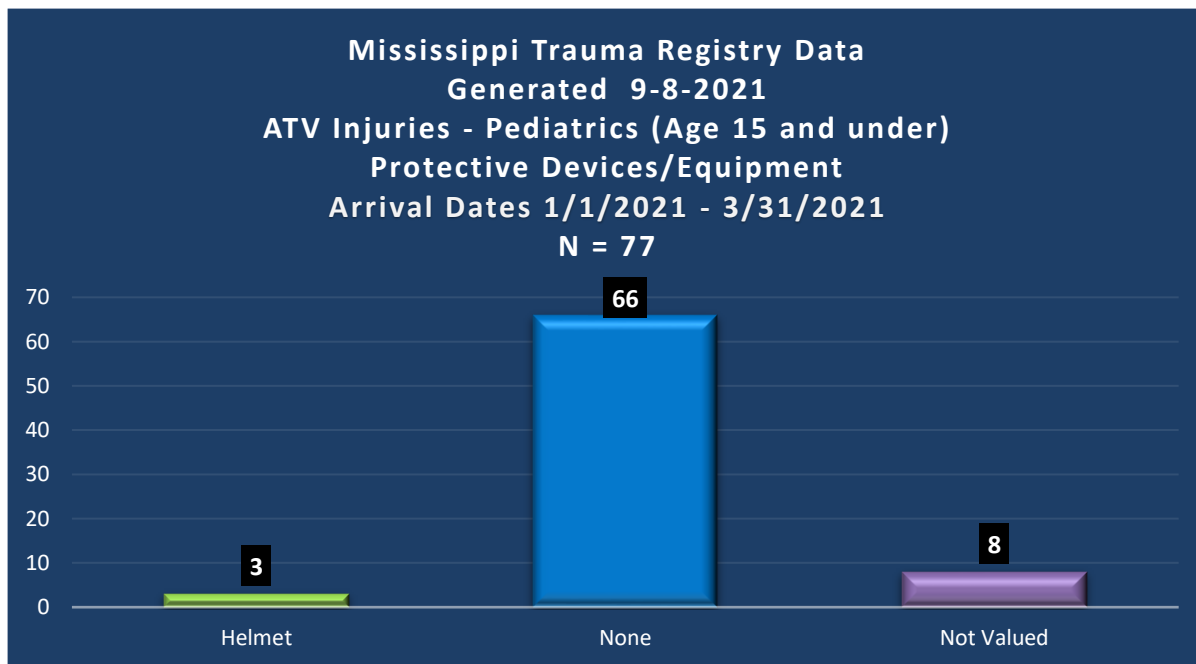


Legislative Bill signed on May 9, 2017 requiring all passengers in vehicle to wear seatbelts

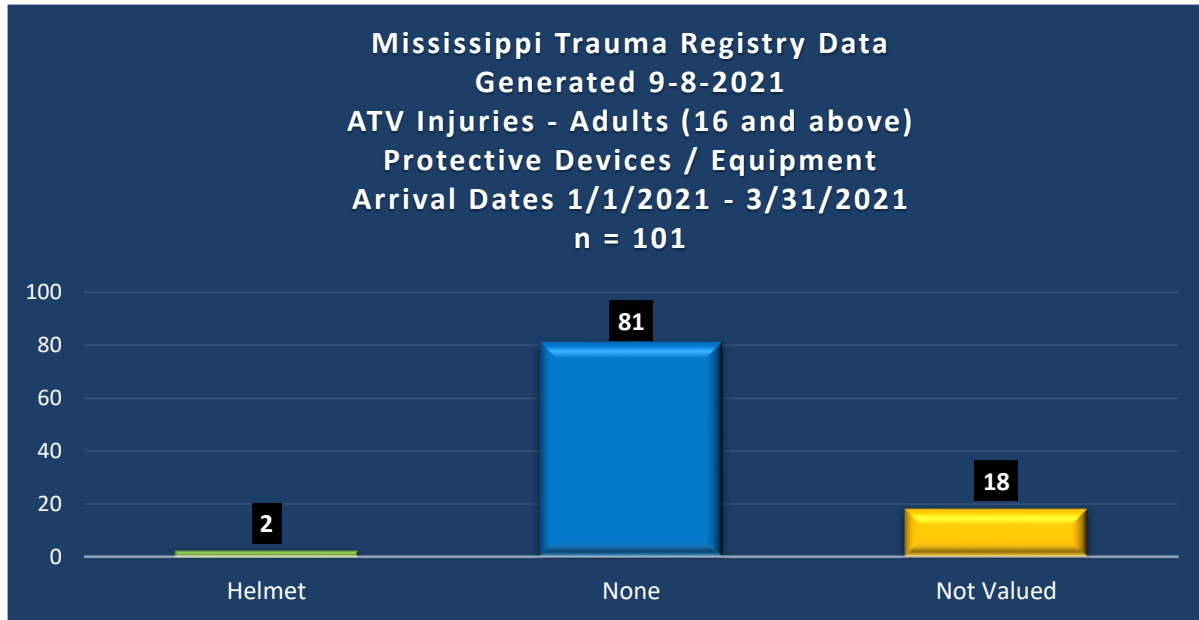
Incidents by Age and Gender



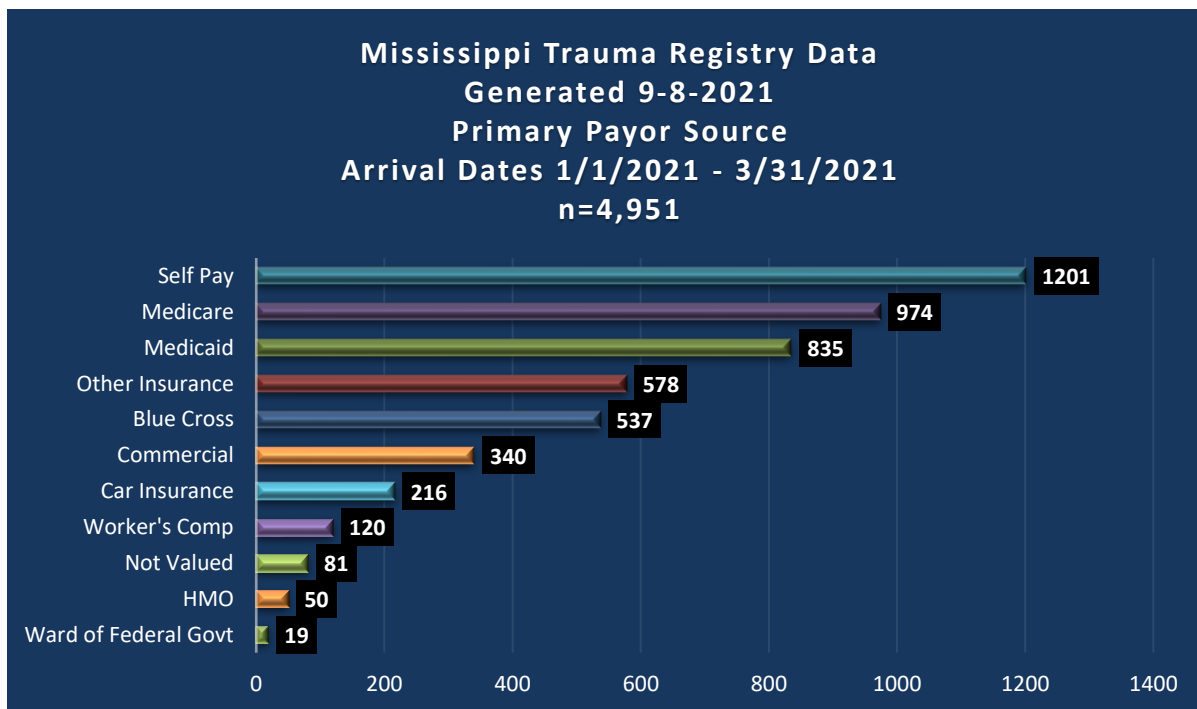
ATV Injuries (Protective Devices) – Pediatric



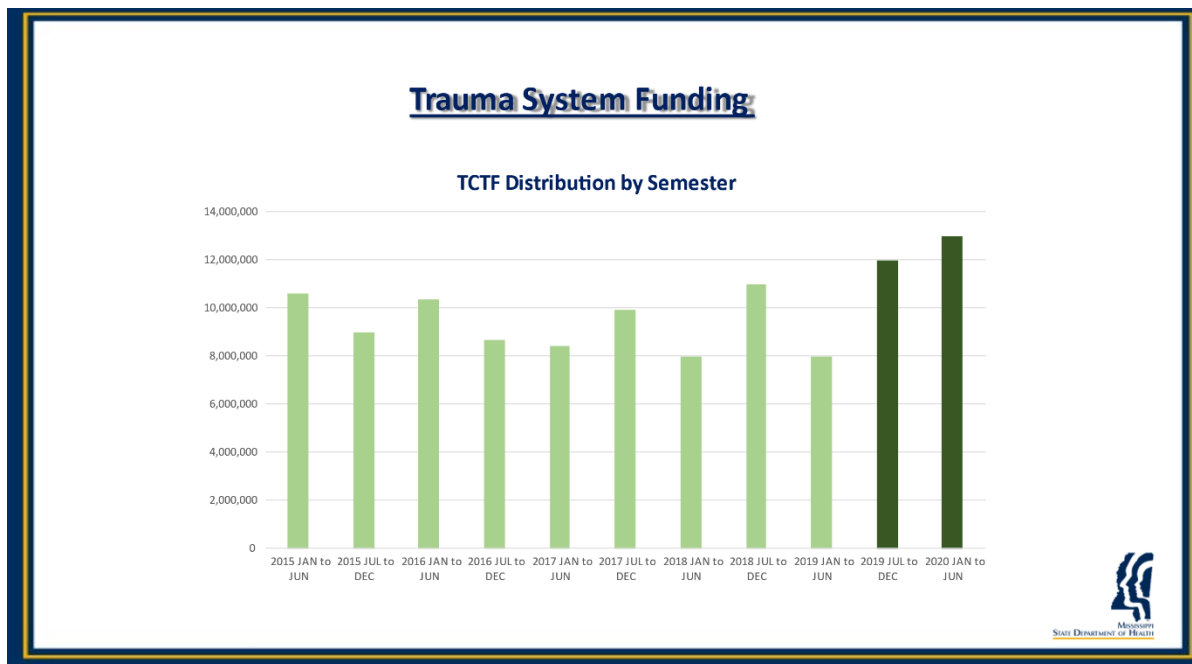
ATV Injuries (Protective Devices) – Adult



Financial Data



Trauma Care Trust Fund – Distributions by Semester



References

Center for Disease Control (CDC). (2019). Motor Vehicle Safety - Teen Drivers: Get the Facts.

Fatality and Injury Reporting System Tool (FIRST). (2020). National Highway Traffic Safety Administration (NHTSA). Retrieved from <https://cdan.dot.gov/query>

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Mississippi Trauma Registry. (2020). [ESO/Digital Innovations, Inc.].

Web-Based Injury Statistics Query and Reporting System (WISQARS). (2020). (Version 2018). National Center for Injury Prevention and Control, Centers for Disease Control and Prevention. Retrieved from <https://www.cdc.gov/injury/wisqars/index.html>