



System Report

October 2020 – December 2020

Mississippi Trauma Care System

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

Prepared for:

Mississippi State Board of Health

March 10, 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 shows 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 and partners with system stakeholders throughout the state. Historically, MSDH opted to contract with trauma regions for administering regional trauma system activities; however, following the advice of the Mississippi Trauma Advisory Committee (MTAC), MSDH reviewed the efficacy of the regional system and found opportunities for reducing administrative and educational costs and improving on the scope and quality of trauma-related educational offerings. In an effort to save on costs and improve on quality MSDH contracted with the Mississippi Trauma Care System Foundation, Inc., a foundation of the Mississippi Hospital Association, for services formerly provided by trauma care regions, beginning on April 16, 2020.

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

- Trauma Care Trust Fund Distribution Payment: \$12,000,000
- Mississippi Trauma Advisory Committee meetings via ZOOM
- Weekly collaboration meetings with the Mississippi Trauma Care System Foundation
- System development calls with Trauma Registry vendor (Digital Innovations/ESO)

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 postponed due to COVID-19

Current List of Designated Trauma 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, October 8, 2020 – Regular Quarterly Meeting**
 - Bureau of Acute Care Systems Report
 - Status of 1st FY21 Trauma Care Trust Fund Distribution
 - Status of Final Trauma Care Region Audits
 - Aggregate System Data Shared with Committee
 - Report on Increased Emergency Department Length of Stay for trauma patients due to COVID-19
- **Trauma Functionality Subcommittee, October 21, 2020**
 - Final Discussion on Revision/Update of the Performance Improvement and Patient Safety Manual
 - Approved Revisions

Clinical Effectiveness Committee (CEC)/ Trauma Medical Directors:

- No meeting this quarter

Trauma Performance Improvement (PI) Program:

- No meeting this quarter
 - MSDH presently reviewing the efficacy of using virtual teleconference environment for Performance Improvement Committee meetings (for all systems of care)

Trauma Data: (July – September 2020)

Source: MS Trauma Registry

Report: ISS (Injury Severity Score) Counts

Generated 03/09/2021

Arrival Dates 07/1/2020 – 09/30/2020

Query: LEVEL_I_III_HOSPS

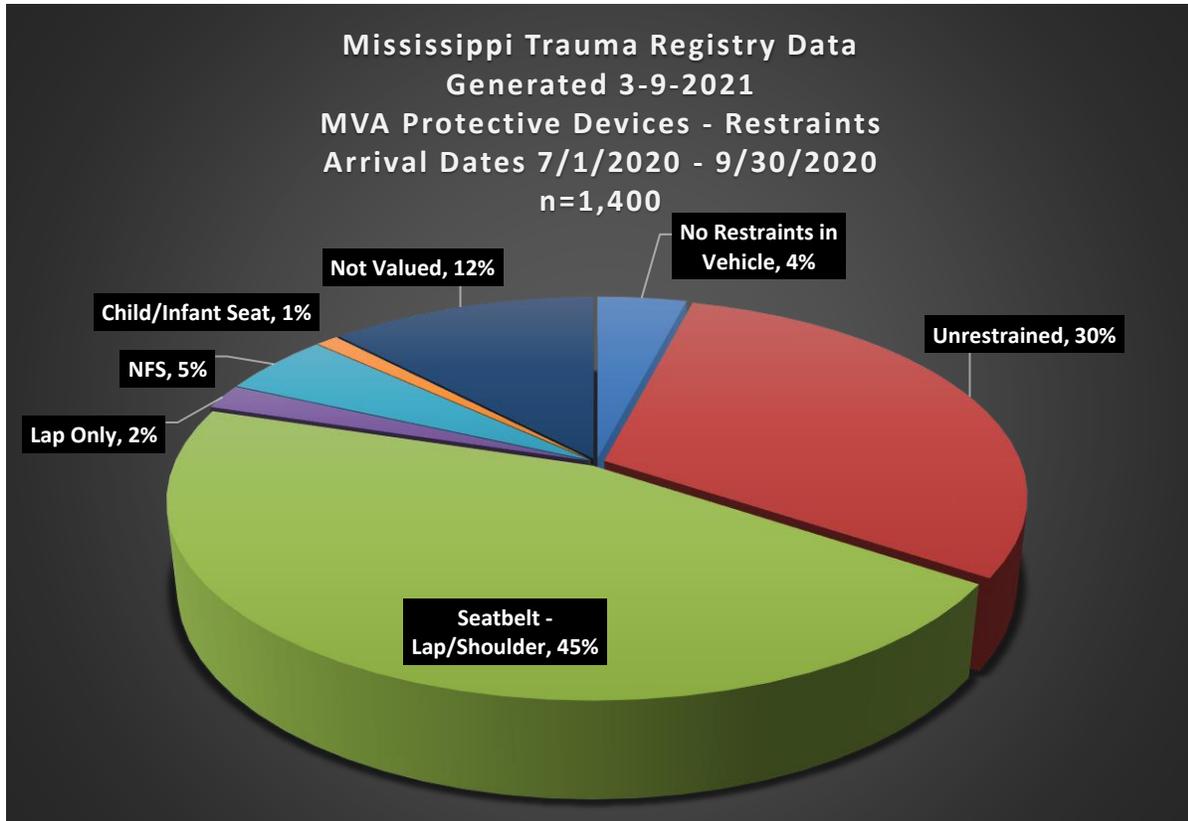
Population: LEVEL_I_III_HOSPS Level I to III Hospitals

Population: PIPS_RECORD_INCLUSIO Records Included In Reports

Hospital	ISS 1-9	ISS 10-15	ISS 16-24	> 24	Total Pts
Anderson Regional Medical Center	90	24	3	5	122
Baptist Memorial Hospital - Desoto	253	15	11	8	287
Baptist Memorial Hospital - Golden Tri	202	6	2	0	210
Baptist Memorial Hospital North Miss.	157	9	2	1	169
Delta Regional Medical Center	9	1	0	1	11
Forrest General Hospital	333	56	44	21	454
Garden Park Medical Center	83	15	5	7	110
LeBonheur Children's Medical Center	104	28	12	6	150

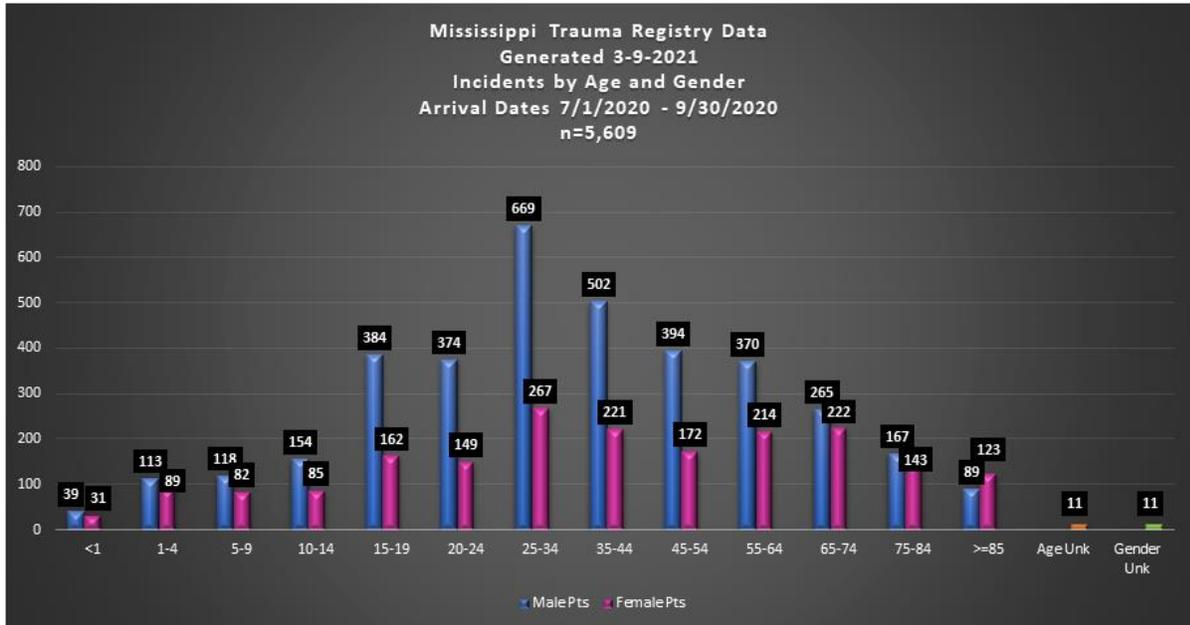
Magnolia Region Health Center	54	12	7	1	74
Memorial Hospital at Gulfport	110	22	6	6	144
Merit Health River Oaks	29	4	0	0	33
Merit Health Biloxi	32	5	8	0	45
Merit Health Central	67	8	0	2	77
Merit Health Wesley	46	9	0	0	55
North MS Medical Center-Tupelo	308	48	43	10	409
Ocean Springs Hospital	66	6	2	0	74
Oktibbeha County Hospital	39	9	1	0	49
Regional One Health	135	39	45	27	246
Rush Foundation Hospital	44	9	7	3	63
Singing River Hospital	92	14	4	0	110
South Central Regional Medical Center	68	29	11	1	109
Univ of South Alabama Medical Center	62	31	28	11	132
University Medical Center	988	234	161	105	1488
Total	3371	633	402	215	4621

Motor Vehicle Collisions

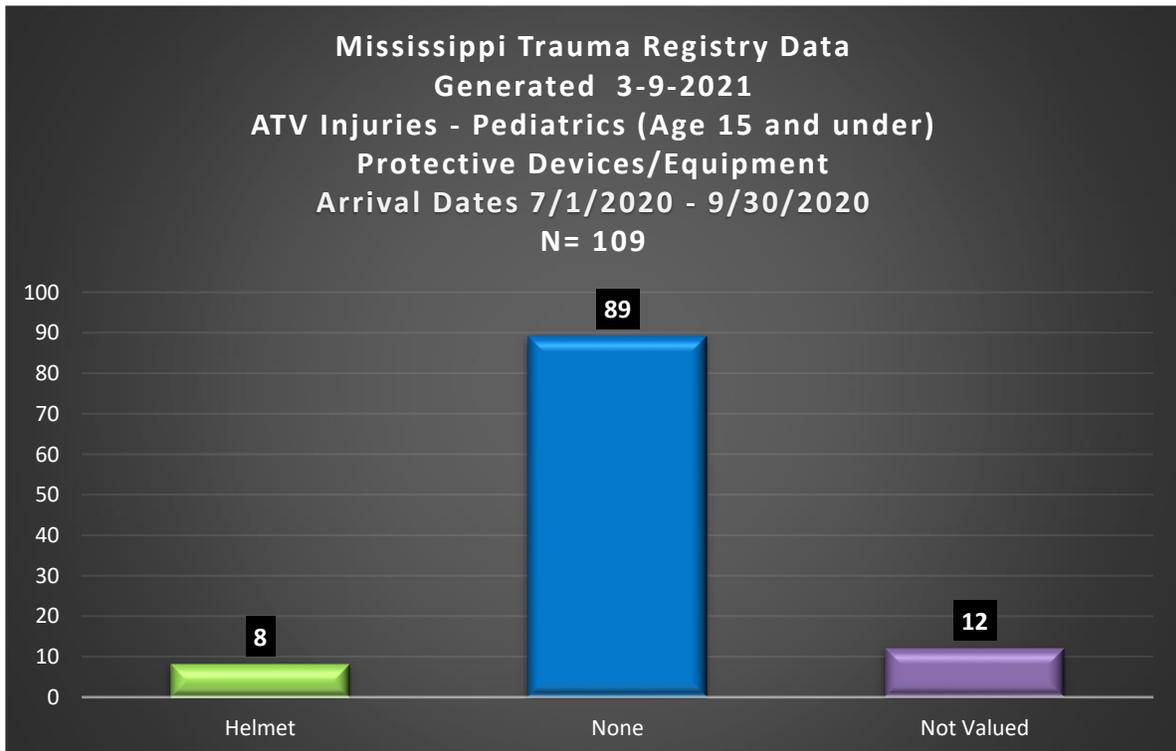


Legislative Bill signed on May 9, 2017 requiring all passengers in vehicle to wear seatbelts

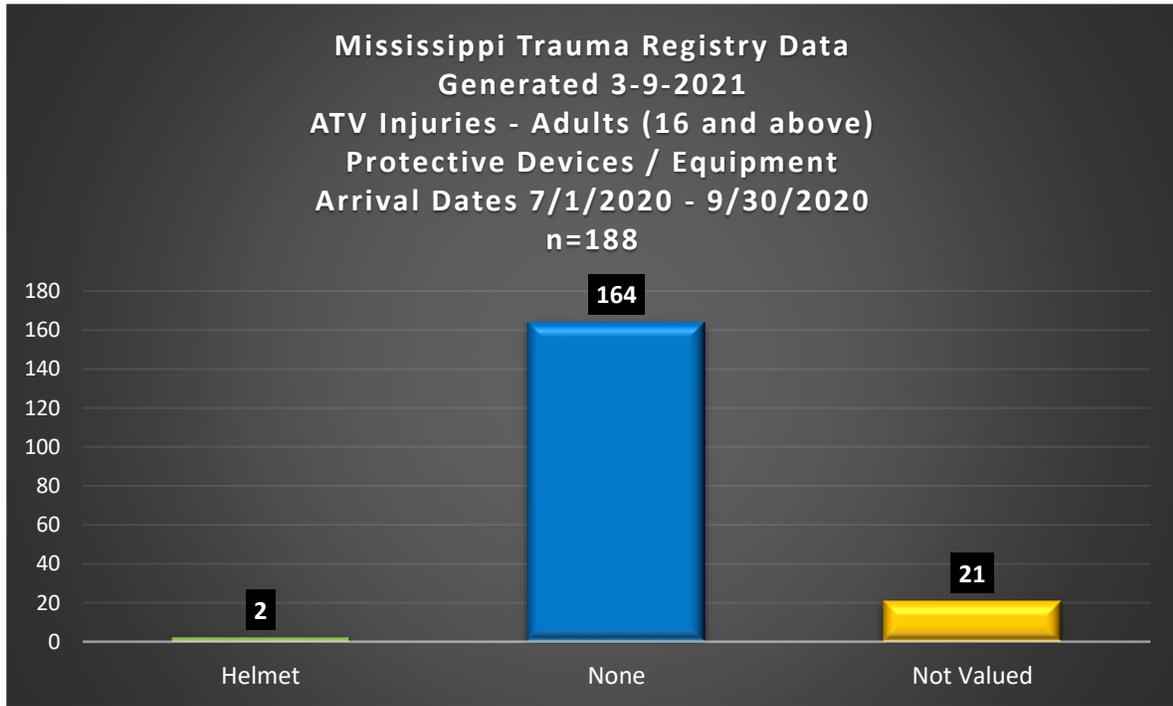
Incidents by Age and Gender



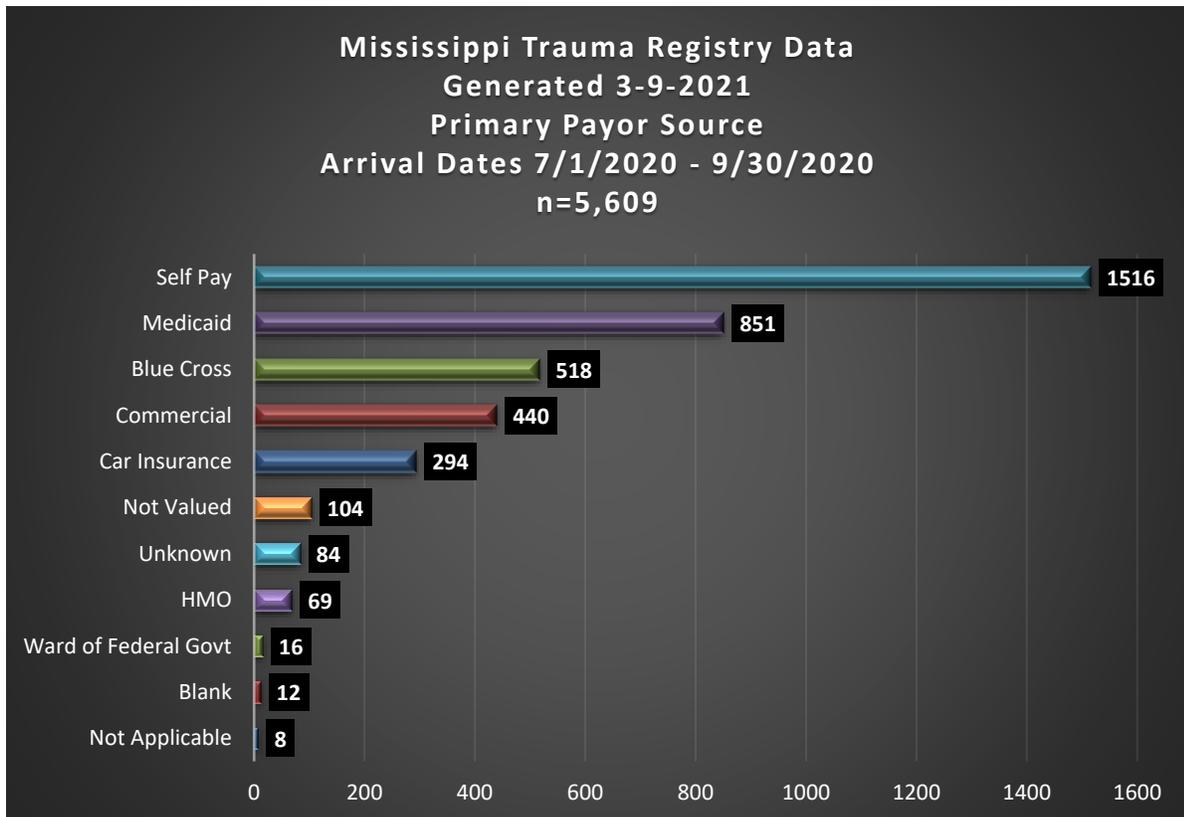
ATV Injuries (Protective Devices) - Pediatric



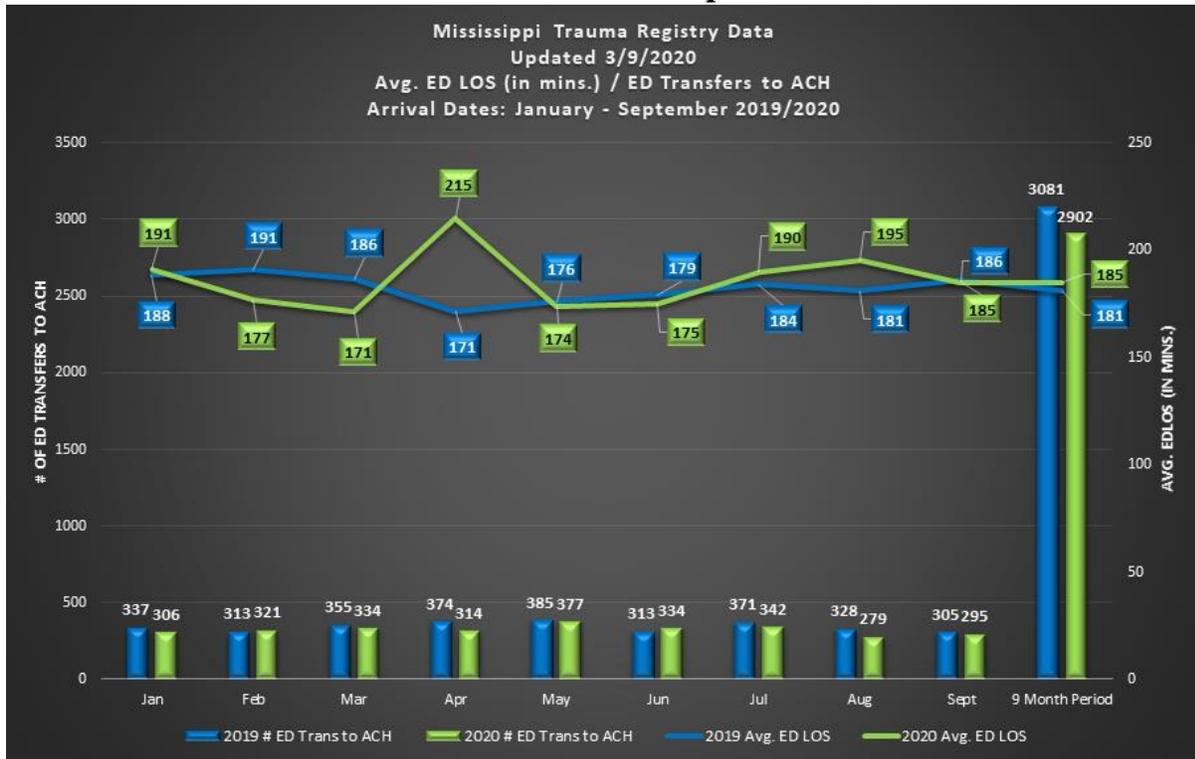
ATV Injuries (Protective Devices) – Adult



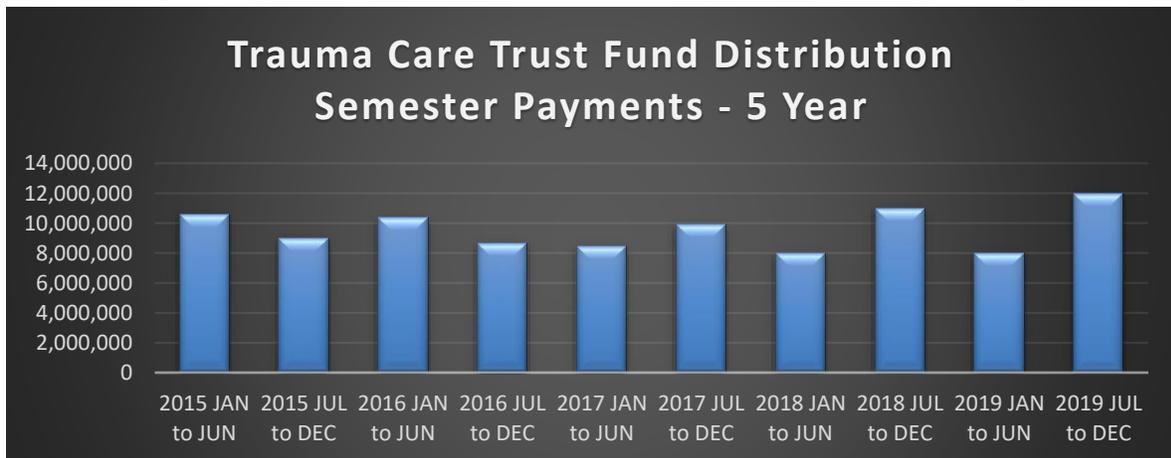
Financial Data



ED LOS / Transfers from ED to an Acute Care Hospital



Trauma Care Trust Fund



Trauma Revenue Collections:

	October 2020	November 2020	December 2020	Total(s)
Auto Privilege & Tag Fees	\$ 1,020,926.23	\$ 1,059,661.06	\$ 942,655.85	\$ 3,023,243.14
Interest Income	\$ 16,258.41	\$ 7,513.46	\$ 12,115.75	\$ 35,887.62
License, Fees and Permits	\$ 115,140.17	\$ 127,740.63	\$ 132,088.82	\$ 374,969.62
QUARTERLY TOTAL				\$ 3,434,100.38

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>

Mississippi Fatalities and Injuries for Youth and Adult Highway Crashes. (2017).

Mississippi Statistically Automated Health Resource System (MSTAHRS). (2020). Mississippi State Department of Health. Retrieved from <http://mstahrs.msdh.ms.gov/>

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>