



# **System Report**

**October - December 2018**

## **Mississippi Trauma Care System**

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

**Prepared for:**

**Mississippi State Board of Health**

**January 12, 2019**

## Introduction

The goal of the Mississippi Trauma System of Care is to deliver the *right* patient to the *right* hospital the *first* time. Research shows that this approach decreases mortality. Trauma remains the leading cause of death for Mississippians age 1 to 44, and Mississippi ranks 3<sup>rd</sup> in the nation for unintentional injury deaths.

Mississippi began development of a statewide trauma system in 1991. The Mississippi Legislature charged the Mississippi State Department of Health with the responsibility for oversight of trauma system development. The Mississippi Legislature passed House Bill 966 in 1998, establishing the Trauma System. Since that time the state has adopted a trauma care plan, established seven designated trauma regions, designated qualifying hospitals as trauma centers, maintained a trauma registry, and disbursed funding to trauma regions, trauma centers, physicians and EMS providers. This year the Trauma System celebrates its 20<sup>th</sup> year.

The Mississippi Legislature passed House Bill 1405 during the 2008 Regular Session to revitalize and more fully fund the Mississippi Trauma Care System. Mississippi moved from a voluntary system with indigent reimbursement to a mandatory system with block grant funding based on funding; the first trauma system of its type in the United States. During the 2016 Regular Session the Legislature passed Senate Bill 2362, also known as the Budget Transparency and Simplification Act. Senate Bill 2362 swept collections from fines previously directed to an account to fund the Trauma System into the state General Fund. With SB 2362 about 35% of the Trauma System disbursement originates from the MSDH State General Funding allocation.

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**

- Registry Sub-committee Statewide Meeting
  - Discussion of web-registry implementation
  - Collaboration to obtain dataset excluded from registry for Clinical Effectiveness Committee (Level I – III only)
  - Discussion of registry inclusion criteria
- Trauma User Group Training
  - Two days of training provided on web- based registry
- Burn Performance Improvement Meeting
  - Discussion and updates to Burn Dashboard
  - Discussion of how to identify burn deaths on scene
  - Request of regions to submit core indicators on burn patients
- Burn Sub-committee Statewide Meeting
  - Discussion of Burn Registry and data fields required
  - Reviewed Trauma System of Care plan – updates to Board of Health
  - Discussion of Burn Destination guidelines
  - Discussion of required resources for pediatric burn patients
- Trauma Functionality, Rules & Regulations Statewide Meeting
  - Discussion regarding TNCC requirements for Level I – IV Trauma Centers
  - Discussion regarding EMS wait times in hospitals – EMS has group reviewing data
  - Dates for registry training exclusion as requested; identified other means of training available, (region, state, hospital)
  - Trauma Funding Task Group (MTAC Task Group) – no meeting October - December
- Collaboration with registry vendor to implement updates to Trauma Registry
- Trauma System Nurse collaboration with Mississippi Department of Transportation to work on Strategic Highway Safety Plan
- Trauma Nursing Core Course (TNCC) for four providers
- Participation with Emergency Preparedness responding to Hurricanes Florence and Michael

## **Trauma Center Survey/ Education Visits:**

- One (1) on – site visit to assist with trauma registry submission
- One (1) on – site education visit with Trauma Program Manager
- Two (2) Designation visits to Level III Center
- One (1) Education visit to Level III Center
- One (1) Education visit to Burn Center

## **Trauma Center Designations:**

The following Level IV Trauma Centers were designated during this period:

- S. E. Lackey Memorial Hospital
- Merit Health River Region
- MS Baptist Medical Center – Jackson

- Methodist Healthcare – Olive Branch
- Neshoba County General Hospital
- Baptist Memorial Healthcare – Union County
- Choctaw Regional Medical Center
- North Mississippi Medical Center - Pontotoc

Currently, the system is comprised of:

- 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
- Seventeen (17) 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
  - Southwest Mississippi Regional Medical Center, McComb
- Sixty-One (61) Level IV Trauma Centers
- One (1) Burn Center: J.M. Still at Merit Health Central

### **Mississippi Trauma Advisory Committee (MTAC):**

- MTAC meeting 9-26-2018
  - BACS update to include update on Trauma System of Care Rules and Regulations Chapter 2
  - Update on trauma center designations
  - Update on trauma registry implementation
  - Update on trauma region administrative payments
  - Update on TCTF distribution payments
  - Discussed project of updating the trauma SOC plan to provide for burn destination guideline

**Clinical Effectiveness Committee (CEC)/ Trauma Medical Directors:**

- Clinical Effectiveness Committee met September 12, 2018
- Points of discussion:
  - Activation Criteria
    - Review of registry data regarding changes to activation criteria
    - Bravo criteria
  - EMS Destination Guidelines

**Trauma Performance Improvement (PI) Program:**

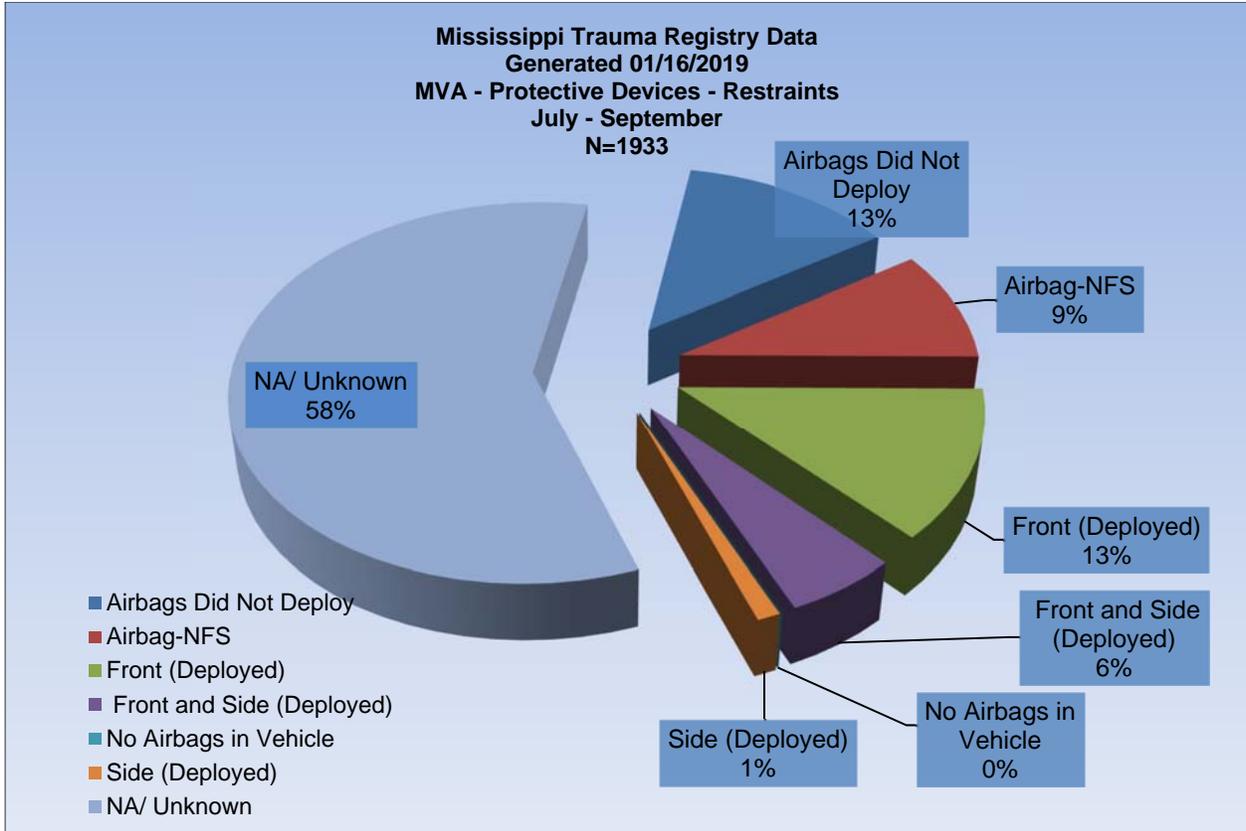
- Performance Improvement Committee met October 9, 2018
- Points of discussion:
  - Discussion of diversion status regarding Coastal Region
  - Discussion of exclusions / inclusion criteria for registry entry – committee requested Level I – III Centers send data for Clinical Effectiveness to review
  - Transfers of pediatric patients
  - Alpha activations at Level IV centers
  - Orthopedic response times
  - PI Scorecard for centers
  - Approval statewide Performance Improvement/Patient Safety (PIPS) Plan to begin using indicators with January 1, 2019 encounters
  - Mortality related to trauma patients
    - Specifically unexpected survivors and unexpected deaths

**Trauma Data: (July2018, August 2018, September 2018)**

MS Trauma Registry  
 DI Report Writer Statistics Report  
 Generated 01/15/2019  
 Arrival Dates 07/01/2018 - 09/30/2018  
 Trauma Records Only  
 Query: LEVEL\_I\_III\_HOSPS  
 Gather: BY\_HOSPITAL (By facility)

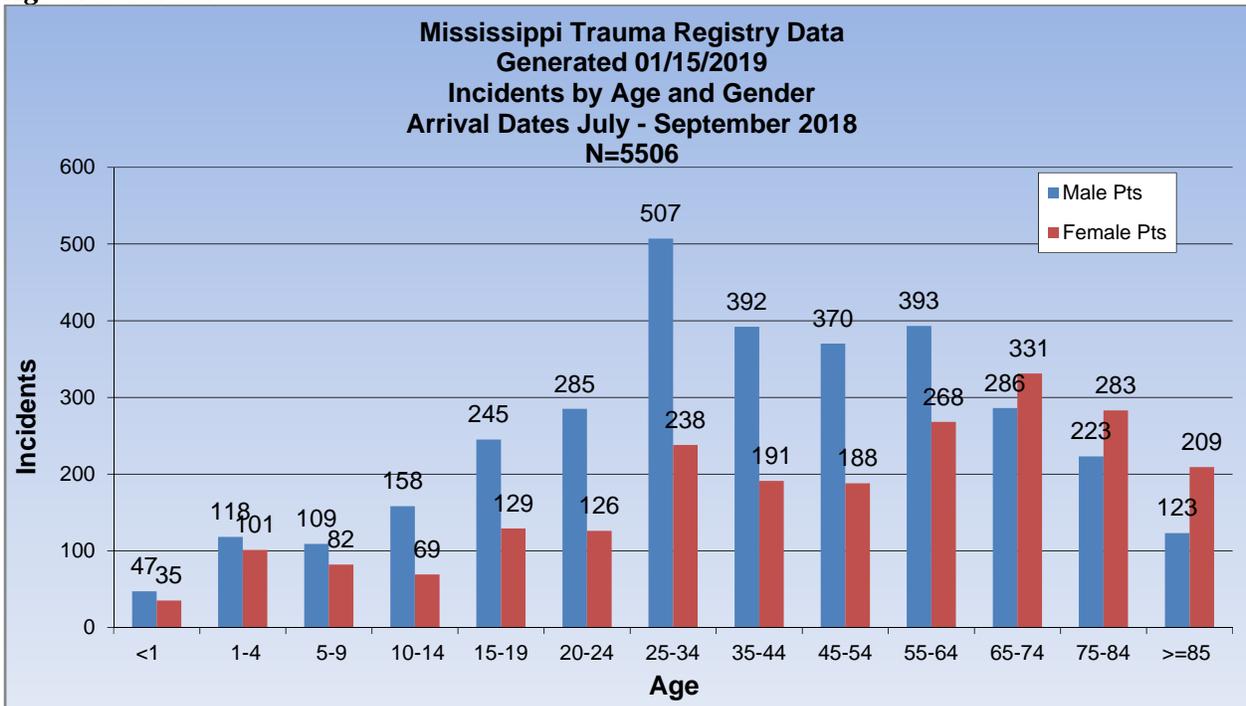
Facility	ISS 1-9	ISS 10-15	ISS 16-24	ISS>24	ISS N/V
Baptist Memorial Hospital-Desoto	300	27	7	4	3
Baptist Memorial Hospital-GoldenTriangle	196	16	3	0	0
Baptist Memorial Hospital-North Miss.	139	9	0	0	0
Delta Regional Medical Center	57	5	1	3	0
Forrest General Hospital	563	55	41	26	0
Garden Park Medical Center	88	15	3	2	0
LeBonheur Children's Medical Center	144	19	7	3	1
Magnolia Region Health Center	105	18	11	1	0
Memorial Hospital at Gulfport	190	30	10	4	0
Merit Health River Oaks	39	2	2	1	0
Merit Health Biloxi	237	3	2	2	1
Merit Health Central	24	3	0	1	0
North MS Medical Center-Tupelo	381	56	38	14	0
Ocean Springs Hospital	125	14	4	0	0
Oktibbeha County Hospital	29	2	0	2	1
Regional Medical Center - North	99	16	7	2	0
Regional One Health	96	20	14	7	0
Rush Foundation Hospital	41	9	3	3	0
Singing River Hospital	117	10	7	0	1
South Central Regional Medical Center	99	17	11	4	0
Southwest Mississippi Regional Medical C	81	18	9	4	0
Univ of South Alabama Medical Center	44	18	12	8	1
University Medical Center	356	61	42	26	6
Total	3550	443	234	117	14

***MVA Injuries***

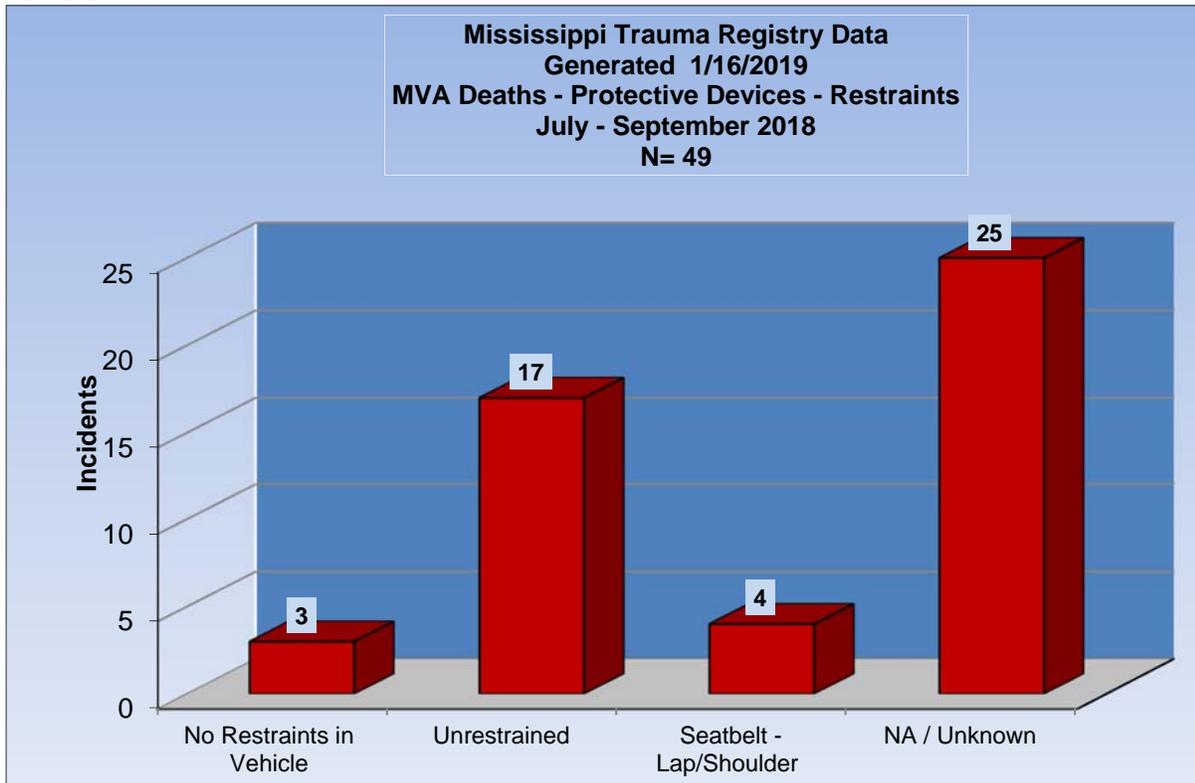


Legislative Bill signed on May 9, 2017 requiring all passengers in vehicle to wear seatbelts.

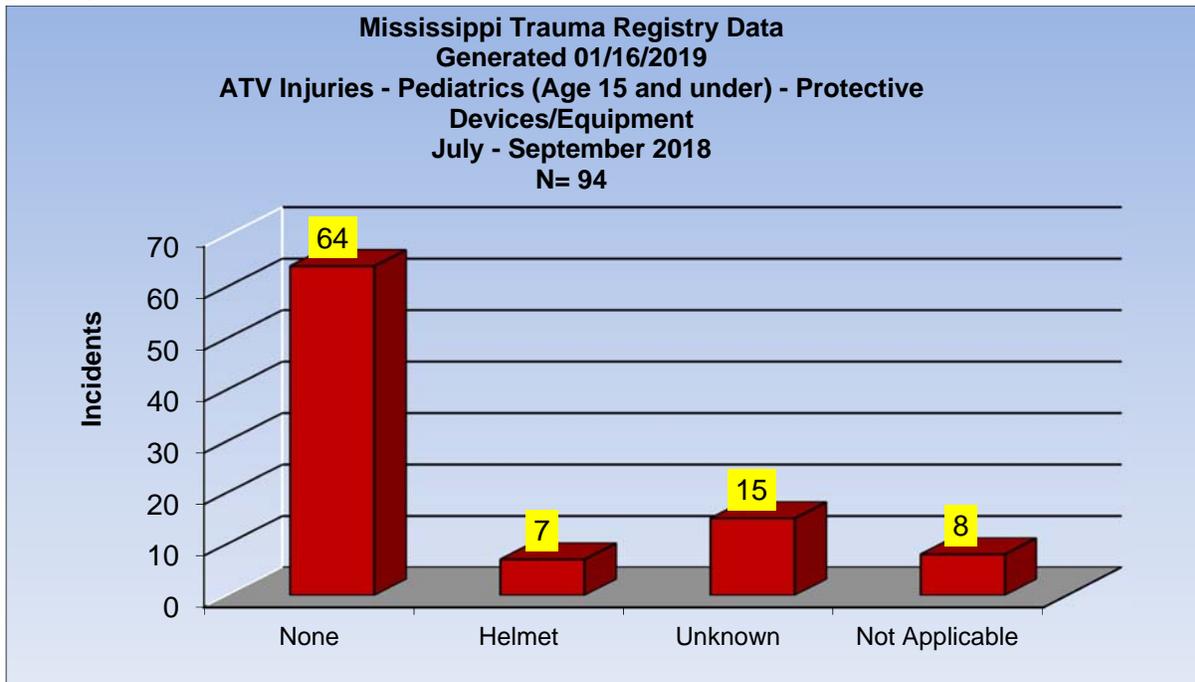
**Age and Gender**



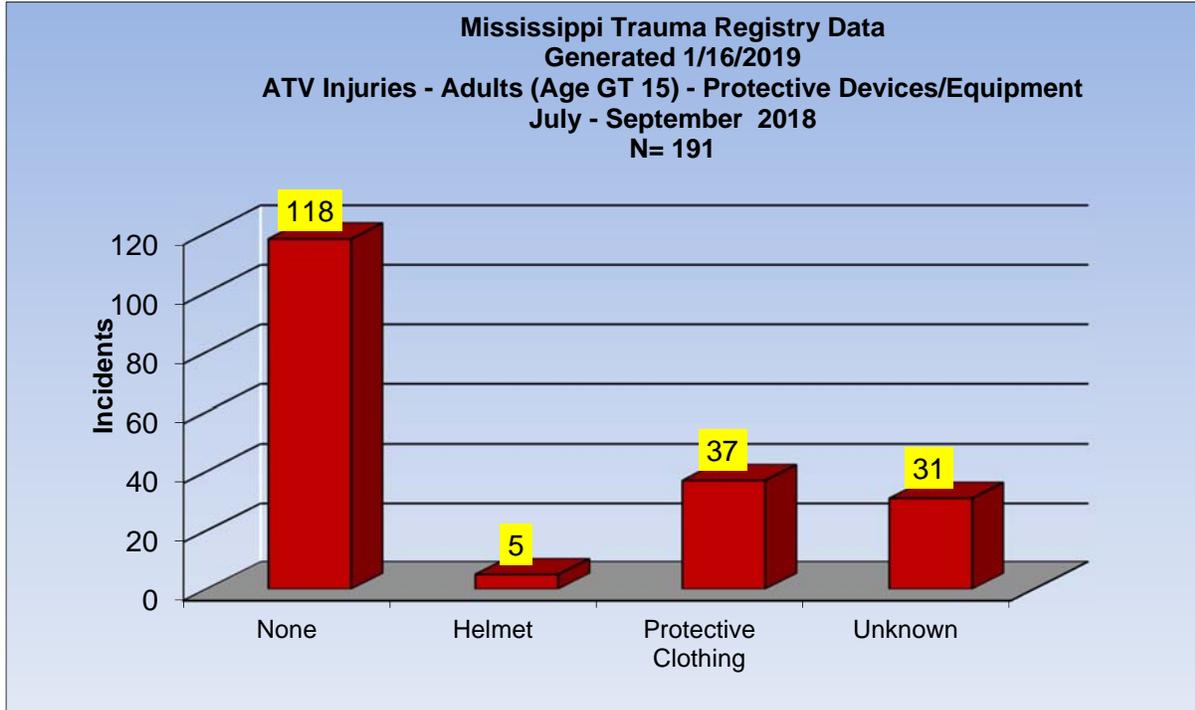
**MVA Deaths**



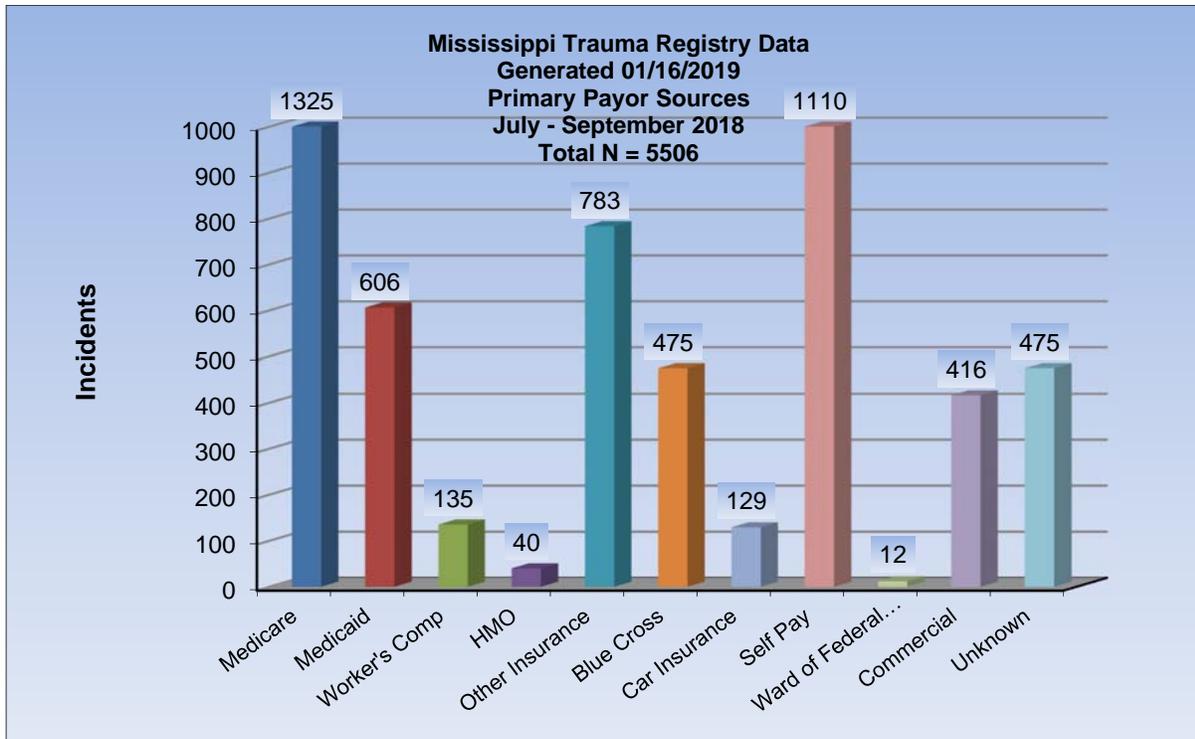
**ATV Injuries (Protective Devices)  
Pediatric**



**ATV Injuries (Protective Devices)  
Adult**



**Financial Data:**



**Trauma Care Trust Fund:**

	<b>October</b>	<b>November</b>	<b>December</b>	<b>Total</b>
Auto Privilege & Tag Fees	\$ 1,079,487.32	\$ 871,751.09	\$ 955,159.04	\$ 2,906,397.42
Interest Income	\$ 16,793.13	\$ 19,309.15	\$ 20,727.42	\$ 56,829.70
License, Fees and Permits	\$ 112,128.75	\$ 110,070.54	\$ 104,834.01	\$ 327,033.30
				<b>\$ 3,290,260.42</b>