System Report

December 1, 2014 – February 28, 2015

Data Period – Fourth Quarter 2014
(October, November, December)

Mississippi Trauma Care System

Designated Trauma Care Providers
Working Together to Prevent and Treat Trauma

Prepared for:

Mississippi State Board of Health

February 24, 2015

Introduction

The goal of the Mississippi Trauma Care System 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 third 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. Since that time the state has adopted a trauma care plan, established seven designated trauma regions, designated qualifying hospitals as trauma centers, maintains a trauma registry, and disbursed funding to trauma regions, trauma centers, and physicians.

The Mississippi Legislature passed House Bill 1405 during the 2007 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 participation; the first trauma system of its type in the United States. 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 Registry - Quarterly Activities

Trauma Registry Users' Group Attendees 1/21/2015						
Ct	**Last Name**	**First Name**	**Region**	**Facility**	**Total**	**Class**
1	Alliston	Beth	Central	River Oaks Hospital	**1**	Y
2	Bailey	Kasandra	Central	Jefferson County Hospital	**1**	Y
3	Bodin	Amanda	Coastal	Biloxi Regional Medical Center	**1**	
4	Calhoun	Jon	Southeast	Covington County Hospital	**1**	Y
5	Dorsey	Gina	Central	River Oaks Hospital	**1**	
6	Edwards	Josh	Delta	Bolivar Medical Center	**1**	Y
7	Graves	Pam	Central	St Dominic	**1**	Y
8	Holmes	Amy	Delta	Delta Regional	**1**	Y
9	Knight	Bobby	Southeast	South Central Regional Medical Ctr	**1**	
10	Lafayette	Mindy	Central	Baptist Memorial Hospital- DeSoto	**1**	Y
11	Mathis	Sandra	Coastal	Memorial Hospital at Gulfport	**1**	
12	Meadows	Terri	Central	Madison River Oaks	**1**	Y
13	Moody	Vicky	Central	Baptist Medical Center Leake	**1**	
14	Oquinn	Linda	Central	Jefferson County Hospital	**1**	
15	Parker	Ellen	Delta	Methodist Health Care Olive Branch	**1**	
16	Richards	Ben	Central	Central MS Medical Center	**1**	
17	Rowe	Geri	Central	J.M. Still- Jackson MS	**1**	
18	Whitten	Donna	North	Pioneer Community - Aberdeen	**1**	Y
19	Wright	Kim	Delta	North MS Medical -Tupelo	**1**	Y
23	**Total**				**19**	**12**

Collector and Report Writer Training for Feb 4-6, 2015

Ct	First Name	Last Name	Region	Facility	Day 1 Feb 4	Day 2 Feb 5	Day 3 Feb 6
1	Linda	Anderson	Delta	Bolivar Medical Center	**1**	**1**	
2	Kasandra	Bailey	Central	Jefferson Co. Hospital	**1**	**1**	
3	Rebekah	Bowsher	Delta	Bolivar Medical Center	**1**	**1**	
4	Brittany	Brown	EC	Pioneer Hosp - Newton	**1**	**1**	
5	Allison	Cole	Delta	North Oak Regional Medical Center	**1**	**1**	
6	Josh	Edwards	Delta	Bolivar Medical Center	**1**	**1**	
7	Jill	Frierson	Coast	Hancock Medical Center	**1**	**1**	
8	Candance	Jones	Central	UMMC	**1**	**1**	**1**
9	Shannon	Kirby	Coast	Garden Park HCA	**1**	**1**	
10	Susan	Lovelace	Coast	George Regional Medical Center	**1**	**1**	
11	Barry	Moore	Central	River Region Hospital	**1**	**1**	**1**
12	Monette	Pearson	North	Choctaw Regional Medical Center	**1**	**1**	
13	Mallory	Quinn	North	Baptist Hospital - Union Co.	**1**	**1**	
14	Geri	Rowe	Central	Central MS Medical Center	**1**	**1**	**1**
15	Sam	Sheppard	Delta	LeBonheur Children's Hospital		**1**	**1**
16	Kathryn	Stewart	Delta	LeBonheur Children's Hospital		**1**	**1**
17	Lakesha	Towns	Delta	North Oak Regional Medical Center	**1**	**1**	
18	Elizabeth	Whitaker	Coast	Hancock Medical Center	**1**	**1**	
19	Donna	Whitten	North	Pioneer Hosp - Aberdeen	**1**	**1**	**1**
20	Lynn	Wooten	Southwest	Natchez Regional Hospital	**1**	**1**	**1**

Trauma Center Education Visits:

No education visits during this period.

Trauma Center Inspections:

No inspections during this period.

Trauma Center Designations:

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

- Calhoun Health Services, Calhoun City
- King's Daughters Hospital, Yazoo City
- Marion General Hospital, Columbia
- Merit Health Rankin, Brandon (formerly Crossgates River Oaks)
- Neshoba County General Hospital, Philadelphia
- North MS Medical Center-Eupora
- North MS Medical Center-West Point
- Perry County Hospital, Richton
- Quitman County Hospital, Marks
- Scott Regional Hospital, Morton
- Simpson General Hospital, Mendenhall
- Wayne County General Hospital, Waynesboro

Currently, the system is comprised of:

- Three (3) Level I Trauma Centers (UMMC, Jackson; Regional 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 (North Mississippi Medical Center, Tupelo; Forrest General Hospital, Hattiesburg; Memorial Hospital of Gulfport, Gulfport);
- Sixteen (16) Level III Trauma Centers;
- Sixty two (62) Level IV Trauma Centers; and
- One Burn Center (J.M. Still at Merit Health Central).

Mississippi Trauma Advisory Committee (MTAC) Activities:

MTAC held its quarterly meeting on February 11, 2015. The committee addressed the following issues:

- Discussed Trauma Center diversion/by-pass and recommended the Trauma Rules & Regulations/Functionality Sub-committee work to define and develop diversion criteria.
- Discussed implementation of a five tier system of Trauma Centers. Levels I-III would not change; Level IV would have 24/7 general surgical coverage but not would not 24/7 Orthopedic Surgical capability. Level V Trauma Centers would be the same as the current

Level IV designation, i.e., stabilize and transfer facilities. MTAC recommended the Trauma Financial Sub-committee and the Trauma Rules & Regulations/Functionality Sub-committee review and propose regulations for the composition of the five levels.

- MTAC requested for members to be on the Trauma Financial Sub-committee and asked for volunteers to be chair and members of the Trauma Education and Prevention Sub-committee.
- MTAC approved the Burn inclusion criteria for the State Trauma Registry as presented by the Trauma Registry Subcommittee and the Burn Committee.
- The ongoing project to link EMS pre-hospital data with the Trauma Registry is near completion. The test between the two vendors (EMS-Image Trend, Registry-Digital Innovations) has been completed and the software will be updated at the next scheduled enhancement. Additionally, MTAC recommended to the EMS Advisory Council that selected pre-hospital data be mandatory for EMS reports to facilitate collection requirements.

The next meeting of MTAC is scheduled for May 13, 2015.

Trauma Data:

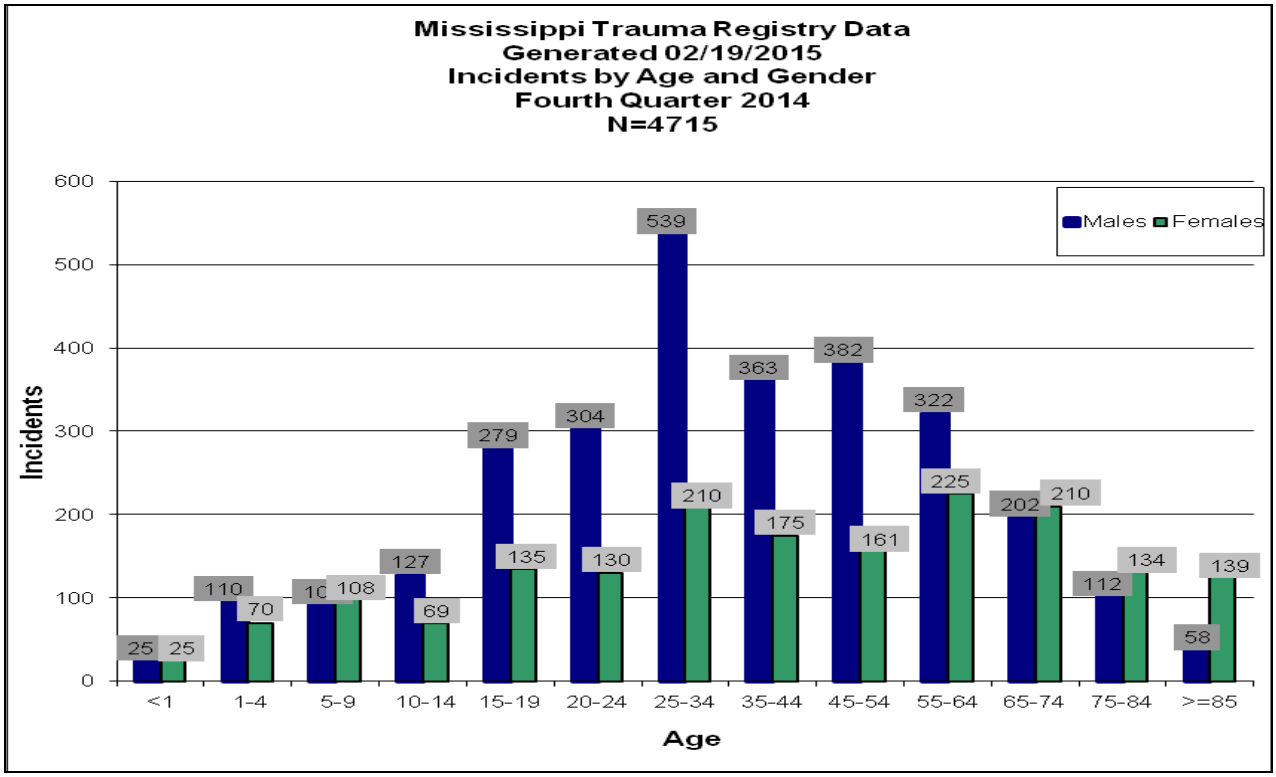
Injury Severity Score (ISS) Summary for Level I-III Trauma Centers

Mississippi Trauma Registry Data
Injury Severity Score Summary for Level I to Level III Hospitals
Generated 02/19/2015
Fourth Quarter 2014
N = 3526*

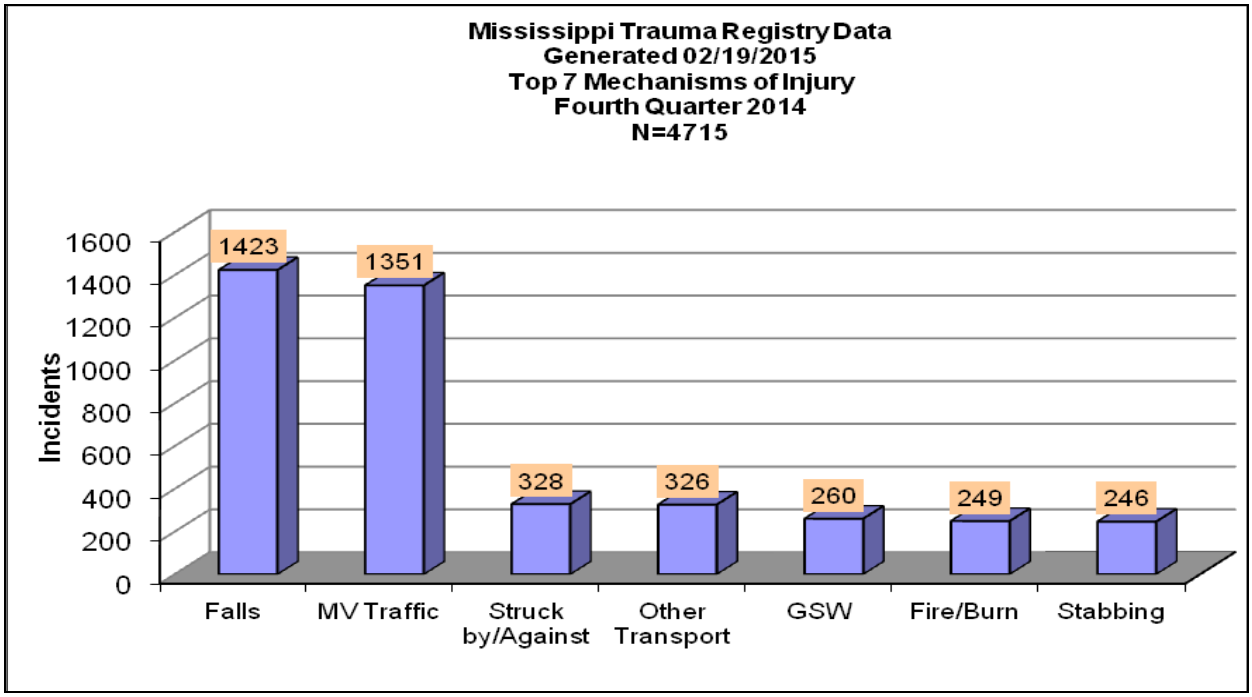
Facility	ISS 1-9	ISS 10-15	ISS 16-24	ISS>24	Total Patients
Anderson Regional Medical Center-North	113	34	12	12	171
Baptist Memorial Hospital-Desoto	220	20	7	1	248
Baptist Memorial Hospital-GoldenTriangle	297	9	6	2	314
Baptist Memorial Hospital-North Miss.	87	10	6	0	103
Biloxi Regional Medical Center	75	6	4	0	85
Central MS Medical Center	85	6	0	3	94
Delta Regional Medical Center	60	8	1	0	69
Forrest General Hospital	416	63	40	6	525
Garden Park Medical Center	61	1	1	2	65
LeBonheur Children's Medical Center	102	11	5	2	120
Magnolia Hospital	110	8	1	2	121
Memorial Hospital at Gulfport	119	25	11	4	159
North MS Medical Center-Tupelo	232	45	12	13	302
Ocean Springs Hospital	62	6	6	1	75
Oktibbeha County Hospital	58	9	3	0	70
Regional Medical Center at Memphis	13	2	6	1	22
River Oaks Hospital, Inc.	19	1	0	0	20
Rush Foundation Hospital	69	13	9	3	94
Singing River Hospital	70	8	3	2	83
South Central Regional Medical Center	78	16	7	1	102
Southwest Mississippi Regional Medical C	108	18	11	2	139
Univ of South Alabama Medical Center	36	8	5	3	52
University Medical Center	311	82	54	46	493
Total	**2801**	**409**	**210**	**106**	**3526**

Does not include 1189 patients treated at Level IV Trauma Centers.

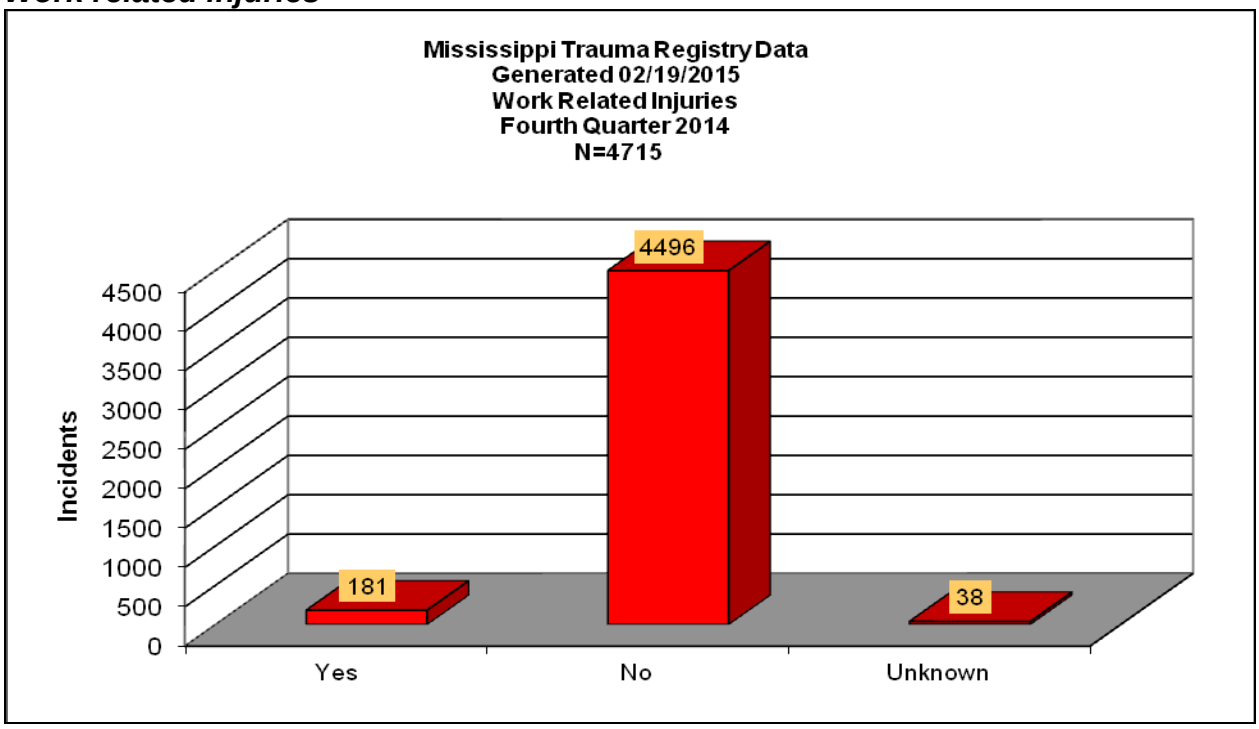
Age and Gender



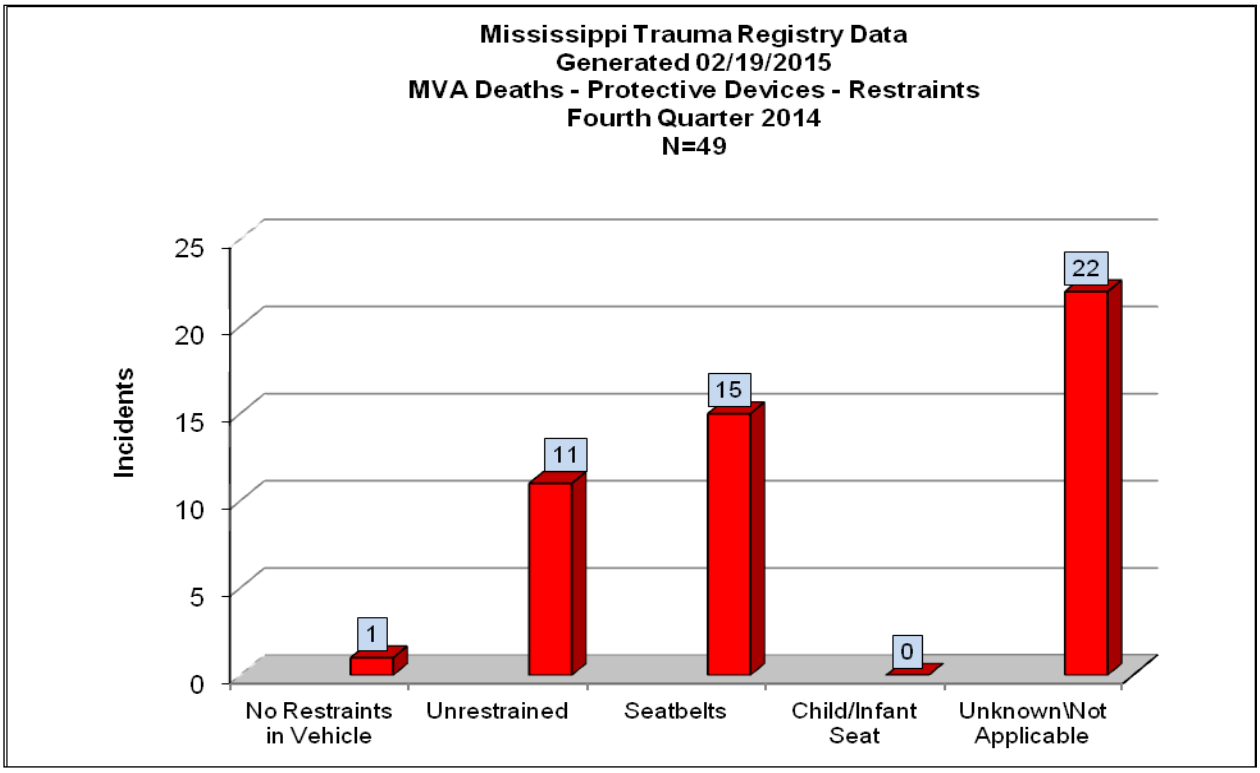
The top 7 mechanisms of injury



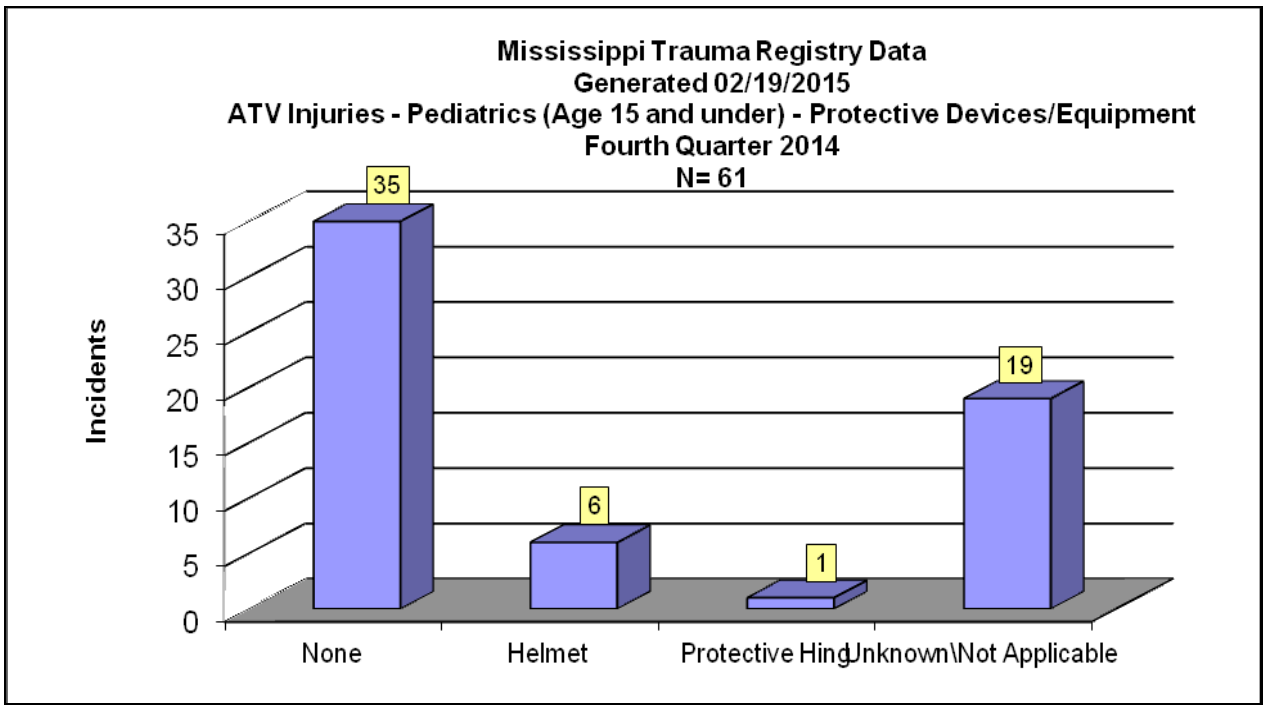
Work related injuries



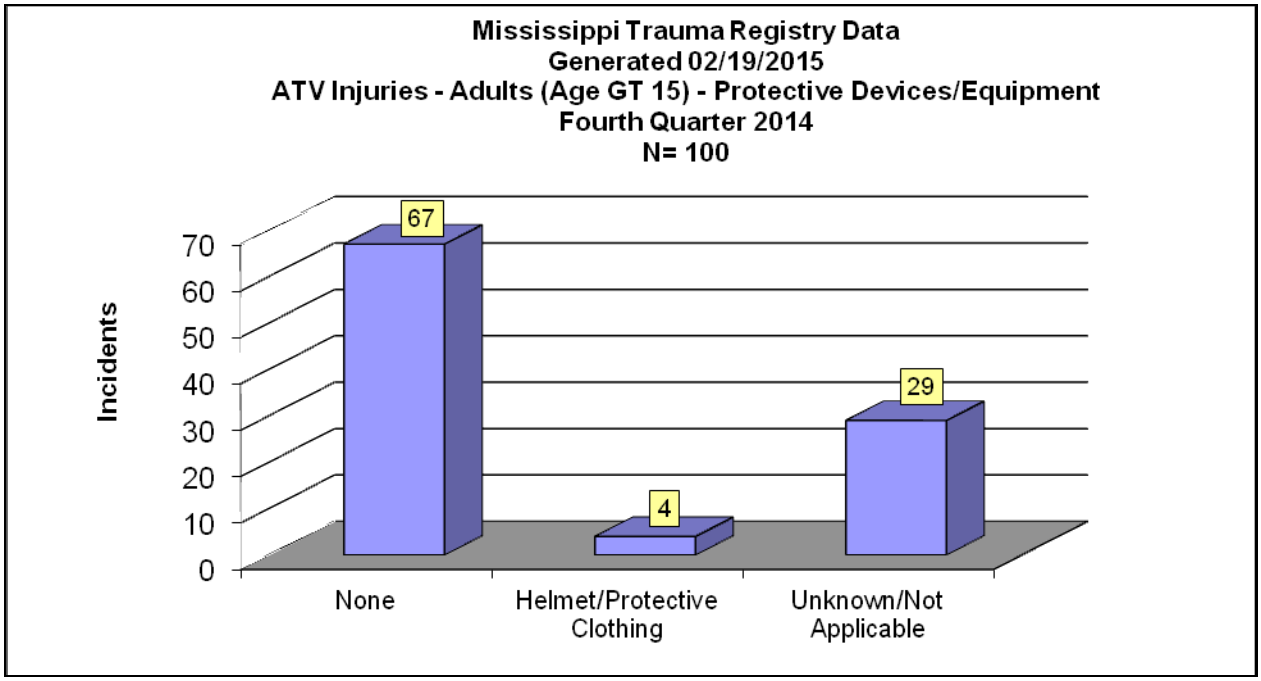
ATV Injuries and Deaths



ATV Injuries and Deaths with Protective Devices (Pediatric)



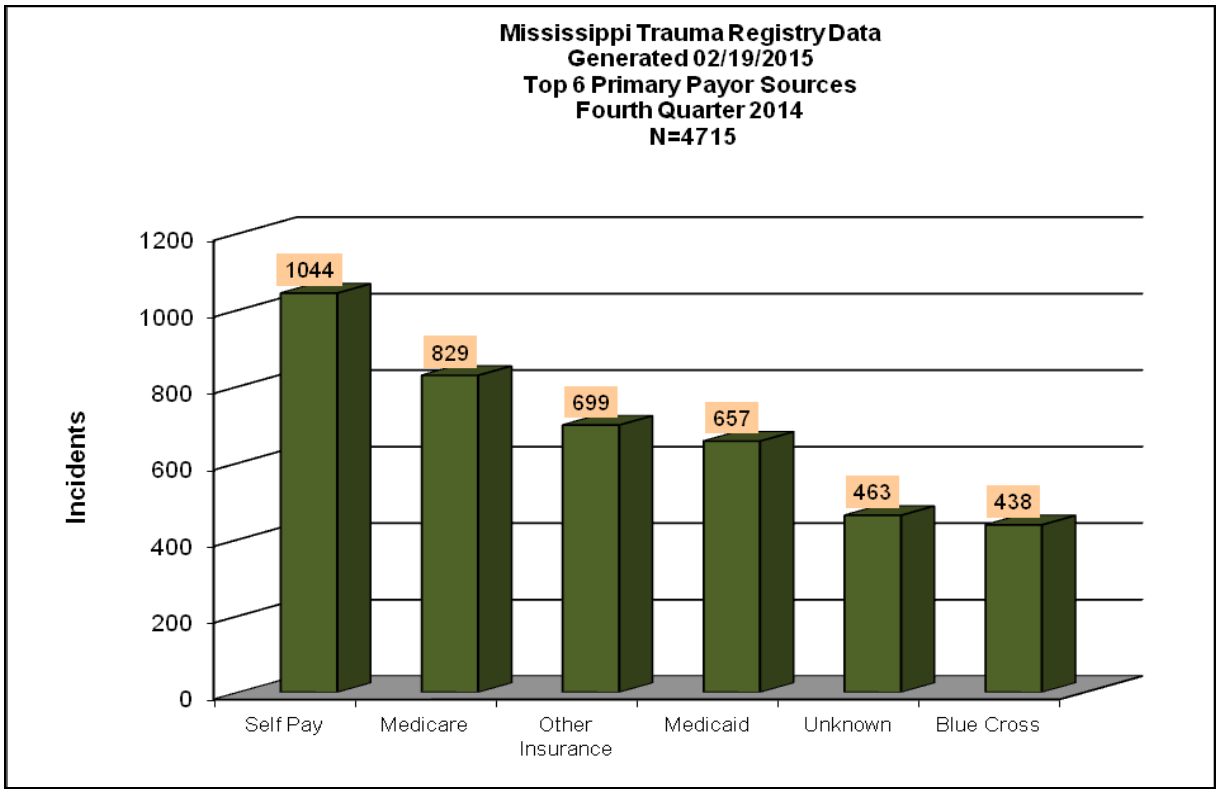
ATV Injuries and Deaths with Protective Devices (Adult)



Trauma Performance Improvement (PI) Program:

- The Trauma PI sub-committee met on January 22, 2015. The sub-committee completed the discussion of recurring findings from Trauma Center inspection reports and used the criteria checklist for Level II and Level III Trauma Centers to develop the following:
  - Segregated each criterion into clinical or programmatic categories.
  - Using the American College of Surgeon (ACS) guidelines, the committee assigned either Type I (critical) or Type II (non-critical) status to each criterion.
- This inspection report will be finalized and used with developing an inspection report for Level I Trauma Centers.
- The committee also approved having a formal State Trauma Performance Improvement Plan developed and to be presented to the sub-committee for approval.
- The next meeting is scheduled for April 16, 2015 (not a public meeting).

Financial Data:



Trauma Care Trust Fund:

Fund Total – November 30, 2014 **$ 5,169,558**

Month	Moving Violations	Interest	Tag Fee	ATV/ Motorcycle Fee	Play or Pay/ Other	Total Collected
December	$500,864	No data	No data	No data	$3,863,517*	$4,364,381
January	$471,692	No data	No data	No data	$981,671*	$1,453,363
February	$321,227	No data	No data	No data	$1,024,677*	$1,345,904
Total	**$1,293,783**	**No data**	**No data**	**No data**	**$5,869,865**	**$7,163,648**

Fund Sub-total – February 28, 2015 **$ 12,333,206**

Fall 2014 TCTF Distribution **- $ 12,620,000**

Available for Spring 2015 Distribution **- $ 286,794**

***Note: Due to state-wide conversion from SAAS to MAGIC, data was consolidated into one category.**