



# **System Report**

**December 1, 2011 – February 29, 2012**

**Data Period-Fourth Quarter 2011  
(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**

**March 5, 2012**

## Introduction

The goal of the Mississippi Trauma Care System is to deliver the **right** patient to the **right** hospital at the **right** 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.



## Quarterly Activities

### Trauma Registry:

Onsite Training - January 2012:		
Calhoun Health Services	Nita	James
	Ruby	Norman
	Shelia	Reemes
Pioneer Community Hosp of Choctaw County	Chrysta	Bates
	Jonie	Ingram
	Mignon	Kelley
	Monette	Pearson

Trauma Registry Software Training Jackson, Mississippi February 1-3, 2012					
Facility	First Name	Last Name	1-Feb	2-Feb	3-Feb
Pioneer Community Hospital - Newton	Shea	Bishop	1	1	
Baptist Memorial Hospital - GT	Deborah	Boulware	1	1	
Jefferson Davis Community Hospital	Jessie	Burns	1	1	
Pearl River County Hospital	Steve	Colson	1	1	1
Baptist Medical Center	Betty	Cox	1	1	1
Pearl River County Hospital	Aaron	Duracher	1	1	1
River Region Health Systems	Renea	Foley	1	1	1
Lackey Hospital	Gwen	Gilliam	1	1	1
University Medical Center	Melinda	Gilliland		1	1
Choctaw Health Center	Myra	Gray	1	1	1
Wesley Medical Center	Deidre	Holloman	1		
Crossgates River Oaks	Heather	Holmes	1	1	
Calhoun Health Services	Juanita	James	1	1	
Baptist Memorial Hospital - GT	Cathy	Johnson	1	1	
King's Daughters Hospital-Yazoo	Joseph	Ledbetter		1	
Jefferson Davis Community Hospital	Patricia	Magee	1	1	
Pioneer Community Hospital - Aberdeen	Leigh	Matthews	1	1	1
University Hospitals - Holmes	Rosalind	McChriston	1		
Leake Memorial Hospital	Vicky	Moody	1		
Crossgates River Oaks	Christy	Murphy	1	1	
Calhoun Health Services	Ruby	Norman	1	1	
University Hospitals - Holmes	Paula	Pepper	1		
North Oaks Regional Medical Center	Lou	Pryor	1	1	1

Mississippi Trauma Care System Report  
December 1, 2011 to February 29, 2012

Facility	First Name	Last Name	1-Feb	2-Feb	3-Feb
Calhoun Health Services	Sheila	Reeves	1	1	
King's Daughters Med. Ctr- Brookhaven	Lee	Robbins	1	1	1
South East Trauma Care Region	Gloria	Smalley		1	
Central MS Medical Center	Barbara	Smith	1	1	1
University Medical Center	Kelly	Tanner		1	
<b>Totals</b>			24	24	11

**Trauma Registry Users' Group Meeting  
Jackson, Mississippi  
January 17, 2012**

First Name	Last Name	Region	Facility	Total
Janet	Basye	SE	Forrest General Hospital	1
Deborah	Boulware	North	Baptist Memorial Hospital - GT	1
Kristin	Brown	North	North MS Medical Center- Tupelo	1
Jesse	Burns	SE	Jefferson Davis Community Hospital	1
Debbie	Coleman	Central	Montfort Jones Memorial Hospital	1
Betty	Cox	Central	MS Baptist Medical Center	1
Diane	Furtick	North	North MS Medical Center- Tupelo	1
Pam	Graves	Central	St. Dominic Hospital	1
Aleta	Guthrie	Central	University Medical Center	1
Stacy	Hill	SE	South Central Regional Medical Center	1
Cindy	Himmel	Central	Magee General Hospital	1
Bobbie	Knight	SE	South Central Regional Medical Center	1
Monica	McCullum	SE	Forrest General Hospital	1
Robin	Montalbano	SE	Highland Community Hospital	1
Christy	Murphy	Central	Crossgates River Oaks Hospital	1
Chris	Nash	SE	Highland Community Hospital	1
Susan	Perrigin	North	Trauma Director- North MS Trauma System	1
Kesha	Prystupa	Central	University Medical Center	1
Kimberly	Scroggins	North	Baptist Memorial Hospital-North	1
Namoni	Sigman	Coastal	Biloxi Regional Medical Center	1
Detrica	Sims	Central	University Medical Center	1
Gloria	Smalley	SE	Southeast Trauma Care Region- Registrar	1
Melinda	Spears	Central	Magee General Hospital	1
Kelly	Tanner	Central	University Medical Center	1
Kim	Terrell	North	North MS Medical Center- Tupelo	1
Lisa C	Wilson	North	North MS Medical Center- Tupelo	1
Lisa	Wilson	Coastal	University of South Alabama Hospital	1
Teresa	Windham	Delta	Baptist Memorial Hospital-Desoto	1
<b>Total</b>				<b>28</b>

## **Trauma Center Consultation Visits:**

There were no consultation visits during this period.

## **Trauma Center Inspections:**

RMC Memphis January 9, 2012  
Level I adult Trauma Center and Primary Pediatric Trauma Center

NMMC-Tupelo January 10, 2012  
Level II adult Trauma Center and Secondary Pediatric Trauma Center

BMH-Golden Triangle, Columbus January 11, 2012  
Level II adult Trauma Center and Secondary Pediatric Trauma Center

Delta Regional Medical Center, Greenville January 31, 2012  
Level III adult Trauma Center and Primary Pediatric Trauma Center

Garden Park Medical Center, Gulfport February 1, 2012  
Level III adult Trauma Center and Primary Pediatric Trauma Center

## **Trauma Center Designations:**

The following hospitals have received designation as a Level IV adult Trauma Center and Primary Pediatric Trauma Center:

- Pioneer Community Hospital, Aberdeen
- Marion General Hospital, Columbia
- Patients' Choice Medical Center of Humphreys County, Belzoni
- North Mississippi Medical Center, Eupora
- Natchez Community Hospital
- Natchez Regional Hospital
- Jefferson Davis Community Hospital, Prentiss
- John C. Stennis Memorial Hospital, DeKalb
- George Regional Hospital, Lucedale
- Greenwood Leflore Hospital, Greenwood
- Neshoba County General Hospital, Philadelphia
- North Mississippi Medical Center, Iuka
- Wayne County General Hospital, Waynesboro
- North Sunflower Medical Center, Ruleville

Currently, the system is comprised of:

- Three (3) Level I Trauma Centers (UMMC, Jackson; Regional Medical Center, Memphis; University of South Alabama, Mobile);

- Five (5) Level II Trauma Centers (North Mississippi Medical Center, Tupelo; Baptist Memorial Hospital-Golden Triangle, Columbus; Forrest General Hospital, Hattiesburg; Memorial Hospital of Gulfport, Gulfport; Singing River Hospital, Pascagoula);
- Twelve (12) Level III Trauma Centers; and
- Sixty (63) Level IV Trauma Centers.

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

MTAC held its last quarterly meeting of CY2011 on December 1, 2011 in the Cobb Auditorium:

- The Rules and Regulations sub-committee reviewed four rules for changes:
  - Rule 1.2.8 Trauma Center Inspections – authorizing the State Health Officer to extend Trauma Center designations for up to one (1) year.
  - Rule 5.3.1 Level IV Emergency Departments – allowing the Rural Trauma Course (RTC) in lieu of Advanced Trauma Life Support (ATLS) for Level IV Emergency Department (ED) physicians
  - Rule 6.1.9 Tertiary Pediatric Trauma Centers – requiring physician response to match Level I adult Trauma Center standards
  - Rule 6.2.9 Secondary Pediatric Trauma Centers – requiring physician response to match Level III adult Trauma Center standards
- The sub-committee also addressed allowing Advanced Trauma Care for Nurses (ATCN) to be recognized as an approved Trauma Nurse course in addition to Trauma Nurse Core Curriculum (TNCC).
- The sub-committee also discussed the formation of a task force to rewrite the Essentials & Desirables (E&D) charts for the different levels of Trauma Centers, Pediatric Trauma Centers, and the Burn Center.
- The Functionality sub-committee recommended a task force to research the process of implementing a state-wide medical communications system.

MTAC held its first quarterly meeting of CY2012 on January 25, 2012 in the Cobb Auditorium:

- MTAC will recommend to the Emergency Medical Services Advisory Council (EMSAC) that a committee be formed to research and recommend a medical communications system that will service EMS, Trauma, STEMI, Stroke, and any other systems of care that may be formed. Responsibility for Medical Control of EMS agencies will remain with the Medical Directors' Training and Quality Assurance (MDTQA) committee.

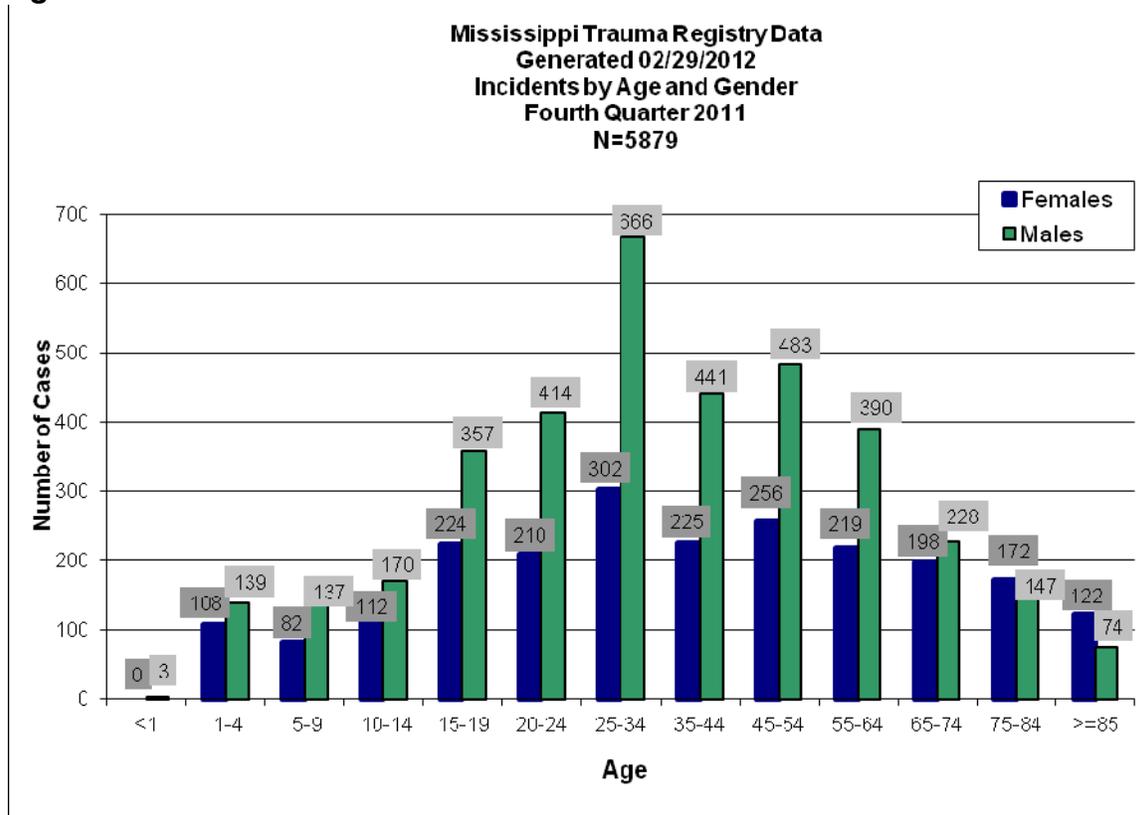
- Rules & Regulations/Functionality Sub-committees will research and recommend changes to the Play or Pay schedule, as it has not been reviewed since 2008. Additionally, Mississippi Hospital Association (MHA) will be contacted to assist with this project.
- Jonathan Wilson, ED Manager at the University of Mississippi Medical Center and EMSAC/MTAC member, was honored by the Emergency Nurses' Association (ENA) as a Recipient of Distinguished Recognition. Mr. Wilson was one of the finalists for ENA's ED Nurse Leader of the Year award.

## Trauma Data:

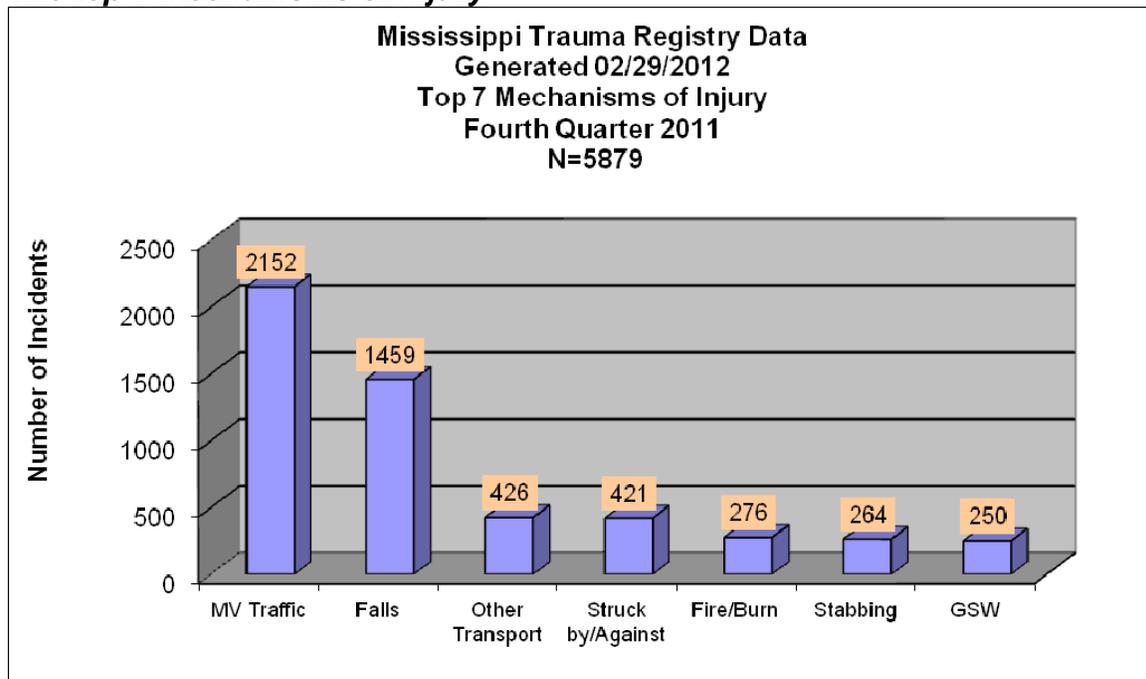
### *Injury Severity Score (ISS) Summary for Level I-III Trauma Centers*

Mississippi Trauma Registry Data						
Injury Severity Score Summary for Level I to Level III Hospitals						
Generated 02/29/2012						
Fourth Quarter 2011						
N = 4323						
Facility	ISS 1-9	ISS 10-15	ISS 16-24	ISS >24	ISS N/V	Total
Anderson Regional Medical Center	104	16	11	9	0	140
Baptist Memorial-Desoto	205	11	8	2	0	226
Baptist Memorial-GoldenTriangle	207	18	10	3	0	238
Baptist Memorial-North MS	51	12	5	4	0	72
Biloxi Regional	112	8	8	2	0	130
Delta Regional	73	4	5	0	0	82
Forrest General	631	62	49	18	0	760
Magnolia Regional Health Center	77	5	10	1	0	93
Memorial Hospital at Gulfport	217	24	17	10	0	268
North MS Medical Center-Tupelo	239	35	49	13	0	336
Ocean Springs Hospital	47	6	4	1	0	58
Oktibbeha County Hospital	58	4	4	4	0	70
Regional Medical Center	78	25	22	27	0	152
River Oaks Hospital	37	0	2	0	0	39
Rush Foundation Hospital	143	18	6	7	0	174
Singing River Hospital	66	5	7	0	0	78
South Central Regional Medical Center	282	13	12	3	0	310
Southwest Mississippi Regional Medical Center	126	14	14	6	0	160
Univ of South Alabama	45	7	11	12	0	75
University Medical Center	525	128	127	82	0	862
<b>Total</b>	<b>3323</b>	<b>415</b>	<b>381</b>	<b>204</b>	<b>0</b>	<b>4323</b>

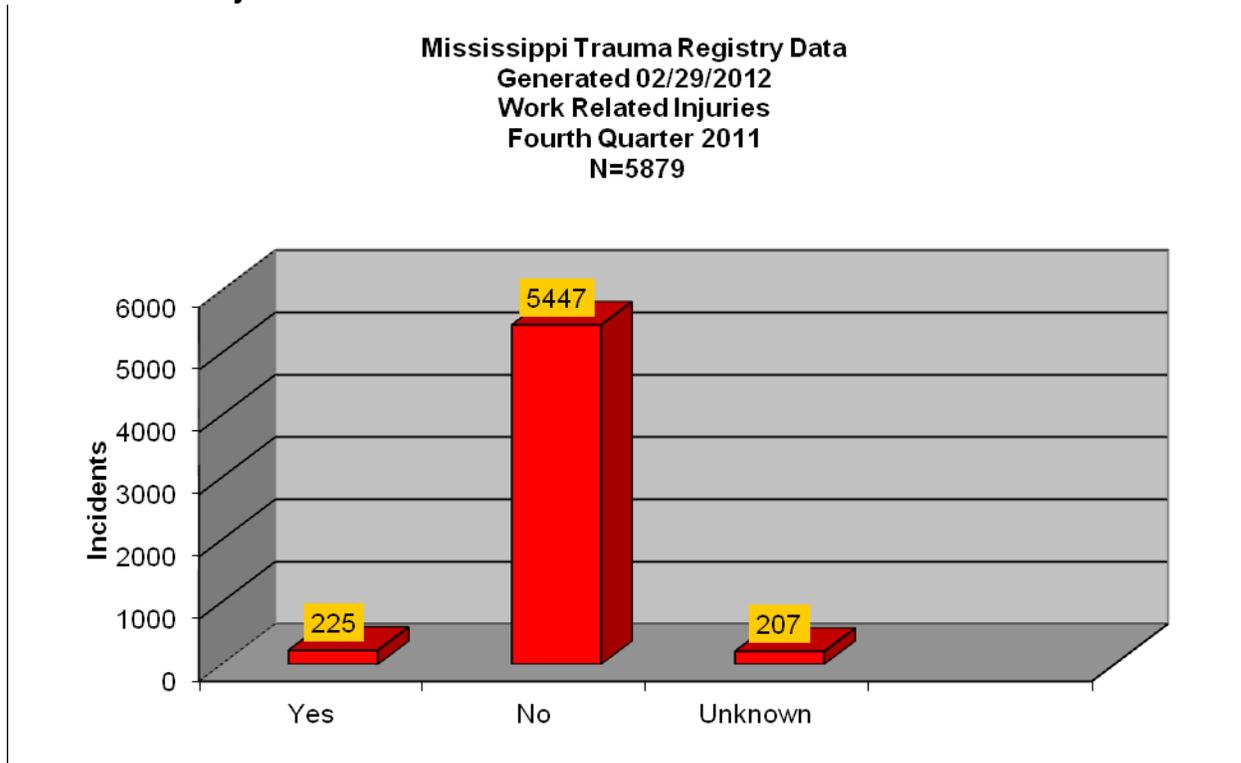
**Age and Gender**



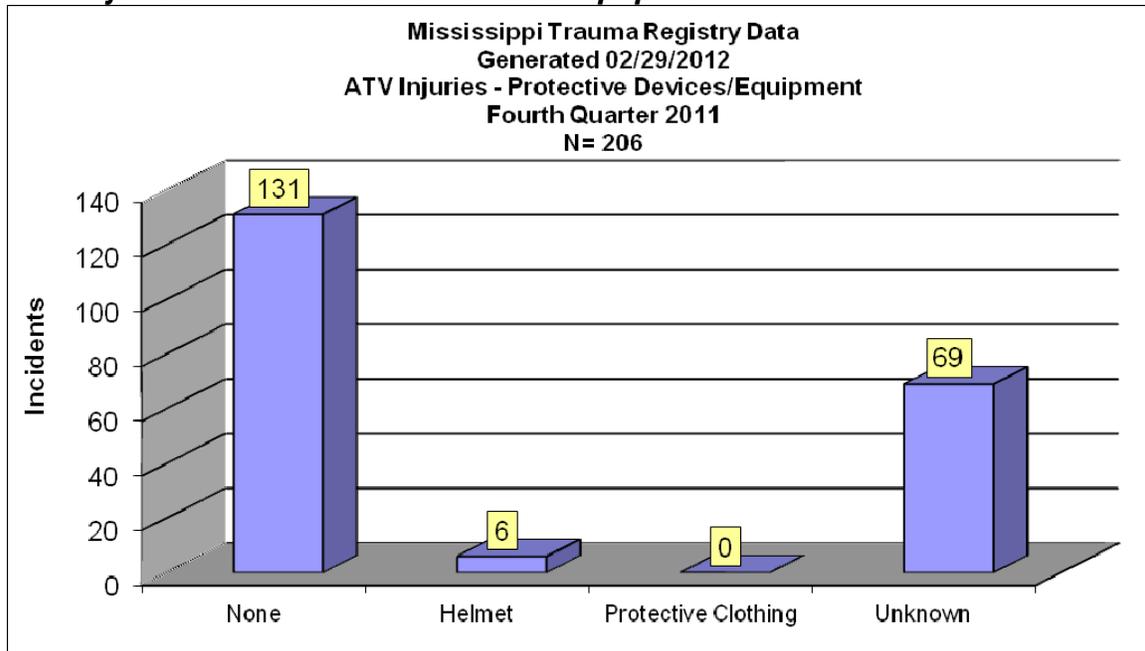
**The top 7 mechanisms of injury**



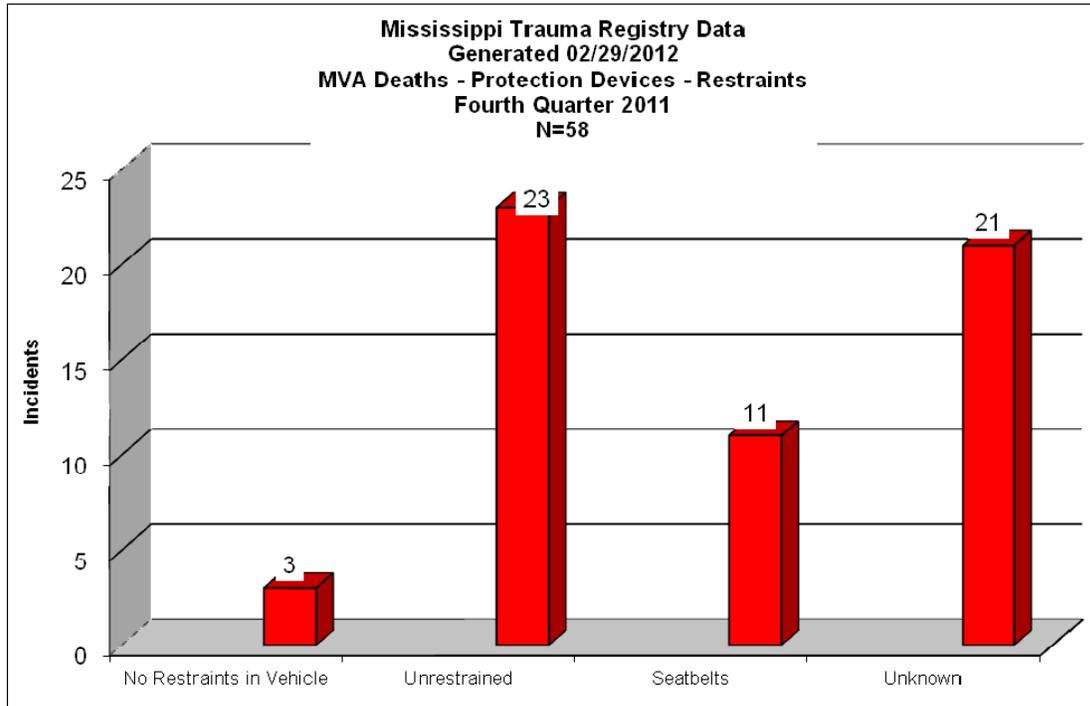
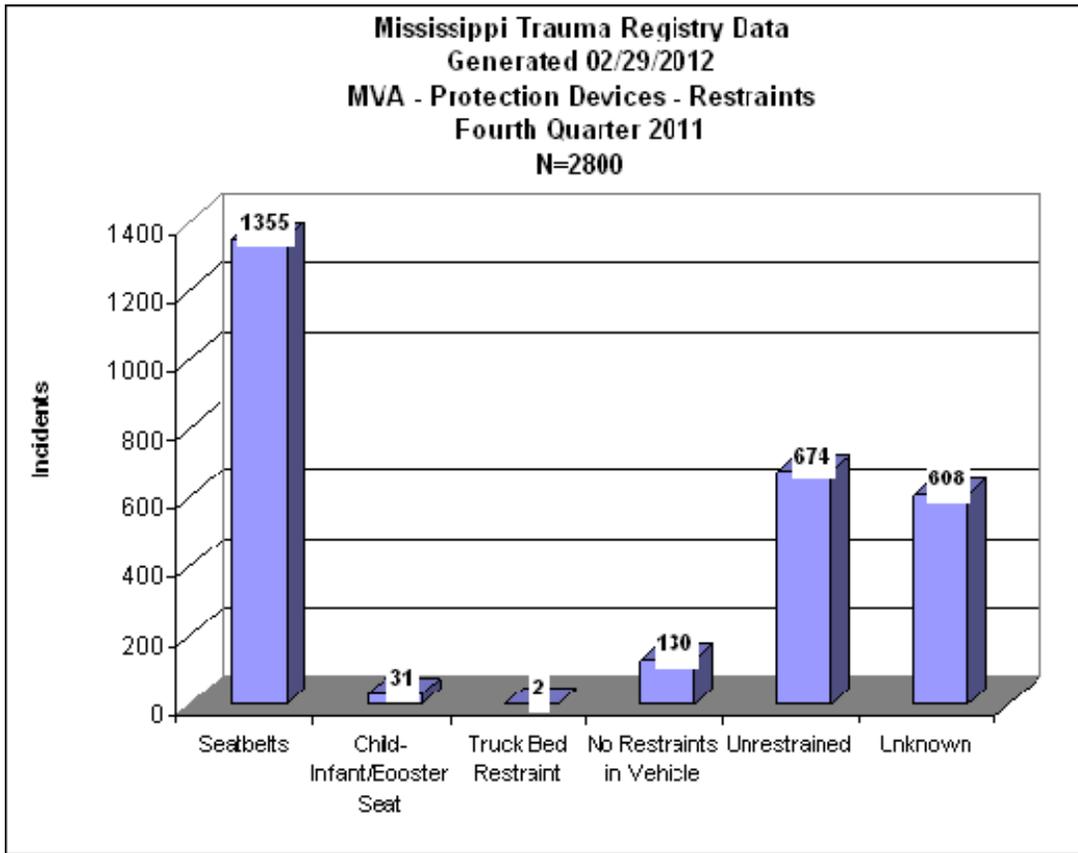
**Work related injuries**



**ATV injuries with Protective Devices/Equipment**



**MVA with and without restraints**



## Performance Improvement (PI) Program:

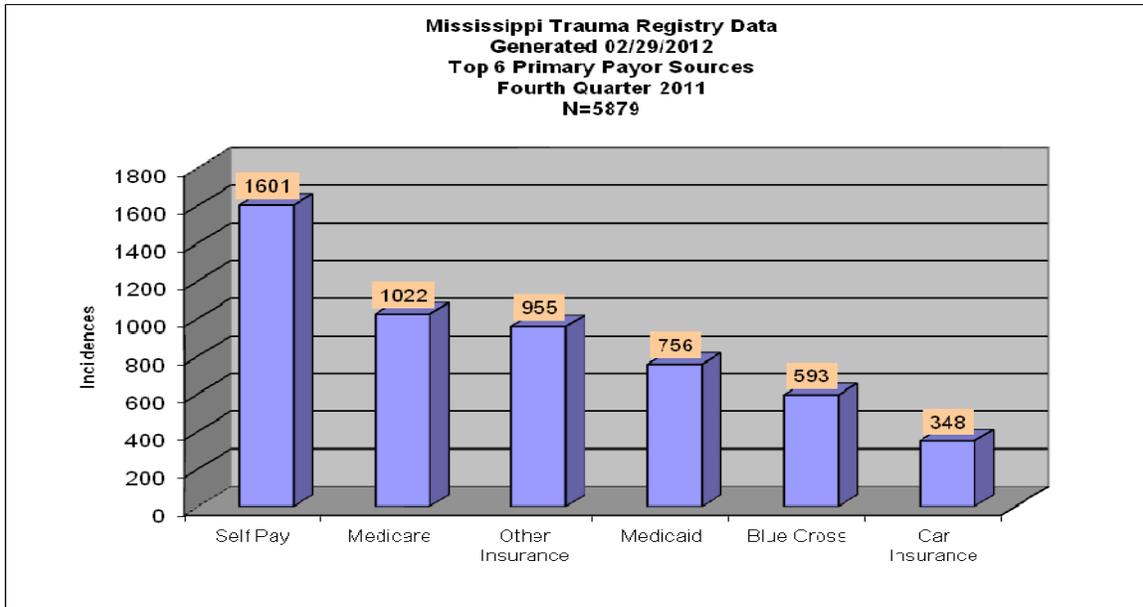
The State Trauma PI Committee has been restructured into the State PI Committee. Mr. Bill Oliver will be the State PI Coordinator and co-chair of the individual PI committees: Trauma, STEMI, and eventually, Stroke. Dr. John Porter has been selected as the chairman of the Trauma Committee, replacing Dr. Frank Ehrlich.

The committee had met on January 13, 2012. The region representatives presented summaries of the PI activities conducted by their region and any issues associated with PI data and/or review. The following changes have been made to the Trauma PI process based on the last year's efforts:

- Meetings will be bi-monthly instead of semi-annually.
- The range of cases will be based on the state average/mean  $\pm$  one (1) standard deviation.
- The Trauma Outcomes Performance Improvement Course (TOPIC) will be scheduled for all of the Trauma PI Committee members. The Department will purchase the texts for committee members attending the course.

An analysis of Trauma Activation/Field Triage Criteria was accomplished by UMMC. The staff reviewed 500+ cases starting 3 months before field activation became effective through 3 months after the implementation date. A number of factors were found and will be presented to the Rules & Regulations/Functionality Sub-committees to consider a modification of the current criteria.

## Financial Data:



**Trauma Care Trust Fund:**

**Fund Total – December 1, 2011**

**\$ 3,128,744**

<b>Month</b>	<b>Moving Violations</b>	<b>Interest</b>	<b>Tag Fee</b>	<b>ATV/ Motorcycle Fee</b>	<b>Play or Pay/ Other</b>	<b>Total Collected</b>
December	\$391,333	\$6,689	\$838,512	\$79,690	\$1,492,000	\$2,808,224
January	647,979	14,692	786,436	95,615	2,250,000	3,794,722
February	494,533	11,521	624,824	143,443		1,274,321
<b>Total</b>	<b>\$1,533,845</b>	<b>\$32,902</b>	<b>\$2,249,772</b>	<b>\$318,748</b>	<b>\$3,742,000</b>	<b>\$7,877,267</b>

**Fund Sub-total – February 29, 2012**

**\$11,006,011**

**Avail for Spring TCTF Distribution**

**\$11,006,011**