System Report

April - June 2018

Mississippi Trauma Care System

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

Prepared for:

Mississippi State Board of Health

July 22, 2018
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 3rd 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, formerly 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 20th 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
  - Taskforce to determine validation process for registry data
  - Validation process approved for hospital, region and state level
  - Discussion of data submission deadline for all centers
  - Discussion of registry flowchart
  - Update from regions regarding burn inclusion criteria education
- Trauma User Group Training
  - Initial training on web-based registry (contact hours awarded for participants)
- Burn Performance Improvement Meeting
  - No meeting April - June
- Burn Sub-committee Statewide Meeting
  - No meeting April - June
- Trauma Functionality, Rules & Regulations Statewide Meeting
  - Chapter 2 Performance Improvement and Patient Safety approved
  - Discussion of repatriation of patients transferred
  - Discussion of validation process and delinquent data submissions
  - Trauma Funding Task Group (MTAC Task Group) – no meeting April - June
- Collaboration with registry vendor to implement updates to Trauma Registry
- Participation in statewide emergency preparedness drill

Trauma Center Survey/ Education Visits:

- Two (2) Designation visits to Level III Centers
- One (1) Education visit to Level III Center

Trauma Center Designations:

The following Level IV Trauma Centers were designated during this period:
- Magee General Hospital
- Tallahatchie General Hospital
- Tyler Holmes Memorial Hospital
- Highland Community Hospital
- Pearl River Community Hospital
- Stone County Hospital
- Walthall County General Hospital
- King’s Daughters Medical Center – Brookhaven

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
Sixteen (16) Level III Trauma Centers
  o Anderson Regional Medical Center, Meridian
  o Baptist Memorial Hospital – DeSoto, Southaven
  o Baptist Memorial Hospital – Golden Triangle, Columbus
  o Baptist Memorial Hospital – North Mississippi, Oxford
  o Delta Regional Medical Center, Greenville
  o Garden Park Medical Center, Gulfport
  o Magnolia Regional Health Center, Corinth
  o Merit Health Biloxi, Biloxi
  o Merit Health Central, Jackson
  o Merit Health River Oaks, Flowood
  o Ocean Springs Hospital, Ocean Springs
  o OCH Regional Medical Center, Starkville
  o Rush Foundation Hospital, Meridian
  o Singing River Hospital, Pascagoula
  o South Central Regional Medical Center, Laurel
  o Southwest Mississippi Regional Medical Center, McComb

Sixty-Two (62) Level IV Trauma Centers
One (1) Burn Center: J.M. Still at Merit Health Central

Mississippi Trauma Advisory Committee (MTAC):
  • Scheduled MTAC canceled due to a lack of quorum – April 17, 2018

Clinical Effectiveness Committee (CEC)/ Trauma Medical Directors:
  • Clinical Effectiveness Committee met June 26, 2018
  • Points of discussion:
    o Discussion of deadline for registry data submission
    o Activation Criteria
      ▪ Review of registry data regarding changes to activation criteria
      ▪ Bravo criteria
    o EMS Destination Guidelines
    o Education for Level IV centers, i.e. ATLS and/or RTDC

Trauma Performance Improvement (PI) Program:
  • Performance Improvement Committee met April 10, 2018
  • Points of discussion:
    o Transfers of pediatric patients
    o Alpha activations at Level IV centers
    o Standard report for region reporting
    o Approval statewide Performance Improvement/Patient Safety (PIPS) Plan
    o Over triage and report to state PI Committee from regions/centers
    o Mortality related to trauma patients
      ▪ Specifically unexpected survivors and unexpected deaths
## Trauma Data: (January 2018, February 2018, March 2018)

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

MS Trauma Registry
Generated 07/15/2018
Arrival Dates 01/01/2018 – 03/31/2018
Trauma Records Only
Query: LEVEL_I_III_HOSPS
Gather: BY_HOSP_123 (Level 123 Hospitals)

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<th>Centers</th>
<th>ISS 1-9</th>
<th>ISS 10-15</th>
<th>ISS 16-24</th>
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Legislative Bill signed on May 9, 2017 requiring all passengers in vehicle to wear seatbelts.
Age and Gender

Mississippi Trauma Registry Data
Generated 07/18/2018
Incidents by Age and Gender
Arrival Dates 01/01/18 - 03/31/18
N=4082

MVA Deaths

Mississippi Trauma Registry Data
Generated 07/18/2018
MVA Deaths - Protective Devices - Restraints
January - March 2018
N=32
**ATV Injuries (Protective Devices)**

**Pediatric**

![Bar Chart for Pediatric ATV Injuries]

**Adult**

![Bar Chart for Adult ATV Injuries]
**Financial Data:**

The chart shows the incidents in the Mississippi Trauma Registry Data from January to March 2018. The data collected is for a total of 4082 cases. The incidents are categorized by different payor sources such as Medicare, Self Pay, Medicaid, Unknown, Blue Cross, Commercial, Car Insurance, Worker’s Comp, HMO, and Ward of Federal Govt.

**Trauma Care Trust Fund:**

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<th>April</th>
<th>May</th>
<th>June</th>
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**Total:** $4,639,965.01