System Report

Data Period
(October 2016, November 2016, and December 2016)

Mississippi Trauma Care System

Designated Trauma Care Providers
Working Together to Prevent and Treat Trauma

Prepared for:

Mississippi State Board of Health

March 3, 2017
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 Mississippian 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 and EMS providers.

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

Registry and registry committee completed

Trauma Center Survey/ Education Visits:

Education visit to 1 Level III Trauma Center

TCTF Financial Audits:

No TCTF financial audits were performed during this quarter

Trauma Center Designations:

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

- Baptist Medical Center – Yazoo
- Tippah County Hospital
- Merit Health Madison
- H. C. Watkins Hospital
- John C. Stennis Memorial Hospital
- Covington County Hospital

Currently, the system is comprised of:

- Three (3) Level I Trauma Centers
  - UMMC, 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
  - North Mississippi Medical Center, Tupelo
  - Forrest General Hospital, Hattiesburg
  - Memorial Hospital of Gulfport, Gulfport
- Sixteen (16) Level III Trauma Centers
  - Baptist Memorial Hospital – DeSoto, Southaven
  - Delta Regional Medical Center, Greenville
  - Baptist Memorial Hospital-NM, Oxford
  - Baptist Memorial Hospital- GT, Columbus
  - Magnolia Regional Hospital, Corinth
  - OCH Regional, Starkville
  - Anderson Regional Medical Center, Meridian
  - Rush Foundation, Meridian
  - Merit Health Central, Jackson
  - Merit Health River Oaks, Flowood
South Central Regional Medical Center, Laurel
Southwest MS Regional Medical Center, McComb
Garden Park Medical Center, Gulfport
Merit Health Biloxi, Biloxi
Ocean Springs Hospital, Ocean Springs
Singing River Hospital, Pascagoula

- Sixty-two (62) Level IV Trauma Centers; and
- One Burn Center - J.M. Still at Merit Health Central

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

- The Trauma PI Committee did not meet. The scheduled time for the meeting was used to host meeting for the Trauma PI taskforce to discuss recommendations for the activation criteria & destination guidelines. Recommendations sent to MTAC for February 1, 2017 meeting.

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

- MTAC met on November 16, 2016
### Trauma Data:

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

<table>
<thead>
<tr>
<th>Facility</th>
<th>ISS 1-9</th>
<th>ISS 10-15</th>
<th>ISS 16-24</th>
<th>ISS &gt;24</th>
<th>ISS N/V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anderson Regional Medical Center-North</td>
<td>104</td>
<td>23</td>
<td>7</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Baptist Memorial Hospital-Desoto</td>
<td>196</td>
<td>11</td>
<td>5</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Baptist Memorial Hospital-GoldenTriangle</td>
<td>164</td>
<td>18</td>
<td>7</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Baptist Memorial Hospital-North Miss.</td>
<td>122</td>
<td>13</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Biloxi Regional Medical Center</td>
<td>30</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Central MS Medical Center</td>
<td>67</td>
<td>8</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Delta Regional Medical Center</td>
<td>79</td>
<td>7</td>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Forrest General Hospital</td>
<td>458</td>
<td>51</td>
<td>27</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Garden Park Medical Center</td>
<td>83</td>
<td>10</td>
<td>13</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>LeBonheur Children's Medical Center</td>
<td>88</td>
<td>13</td>
<td>9</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Magnolia Hospital</td>
<td>111</td>
<td>19</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Memorial Hospital at Gulfport</td>
<td>174</td>
<td>21</td>
<td>8</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>North MS Medical Center-Tupelo</td>
<td>291</td>
<td>71</td>
<td>61</td>
<td>35</td>
<td>0</td>
</tr>
<tr>
<td>Ocean Springs Hospital</td>
<td>65</td>
<td>13</td>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Oktibbeha County Hospital</td>
<td>21</td>
<td>5</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Regional Medical Center at Memphis</td>
<td>61</td>
<td>8</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>River Oaks Hospital, Inc.</td>
<td>29</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rush Foundation Hospital</td>
<td>105</td>
<td>14</td>
<td>11</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>Singing River Hospital</td>
<td>98</td>
<td>12</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>South Central Regional Medical Center</td>
<td>74</td>
<td>15</td>
<td>4</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Southwest Mississippi Regional Medical C</td>
<td>132</td>
<td>22</td>
<td>10</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Univ of South Alabama Medical Center</td>
<td>41</td>
<td>17</td>
<td>14</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>University Medical Center</td>
<td>525</td>
<td>128</td>
<td>59</td>
<td>61</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>3118</td>
<td>501</td>
<td>251</td>
<td>145</td>
<td>4</td>
</tr>
</tbody>
</table>

Mississippi Trauma Registry Data
Injury Severity Score Summary for Level I to Level III Hospitals
Generated 03/02/2017
October- December 2016
N = 4019
Age and Gender

Mississippi Trauma Registry Data
Generated 03/02/2017
Incidents by Age and Gender
October-December 2016
N=4991
3=unk

Incidents

Age

<1  1-4  5-9  10-14  15-19  20-24  25-34  35-44  45-54  55-64  65-74  75-84  >=85

Male Pts
Female Pts

31  27  67  84  75  144  160  210  376  382  256  249  136  89  138
The top 10 mechanisms of injury

Mississippi Trauma Registry Data
Generated 03/02/2017
Top 10 Mechanisms of Injury
October - December 2016
Total N=4991
Work related injuries

Mississippi Trauma Registry Data
Generated 03/02/2017
Work Related Injuries
October-December 2016
N=4991
**MVA Deaths**

![Bar chart showing MVA Deaths related to protective devices and restraints from October to December 2016.](chart.png)

- **No Restraints in Vehicle**: 1 incident
- **Unrestrained**: 9 incidents
- **Seatbelts**: 7 incidents
- **Child/Infant Seat**: 0 incidents
- **Unknown/Not Applicable**: 8 incidents

*Mississippi Trauma Registry Data*
*Generated 3/3/2017*
*MVA Deaths - Protective Devices - Restraints*
*October, November, December 2016*
*N=25*
MVA Injuries

Mississippi Trauma Registry Data
Generated 03/02/2017
MVA - Protective Devices - Restraints
October-December 2016
N=1156

Incidents

Seabelts: 501
Child-Infant/Booster Seat: 14
No Restraints in Vehicle: 60
Unrestrained: 275
Unknown/NA: 306
**ATV Injuries (Protective Devices)**

**Adult/ Pediatric**

### Mississippi Trauma Registry Data

**Generated 03/02/2017**

ATV Injuries - Pediatrics (Age 15 and under) - Protective Devices/Equipment

October- December 2016

N= 71

- None: 57
- Helmet: 0
- Unknown/Not Applicable: 14

### Mississippi Trauma Registry Data

**Generated 03/03/2017**

ATV Injuries - Adults (Age GT 15) - Protective Devices/Equipment

October- December 2016

N= 198

- None: 141
- Helmet/Protective Clothing: 5
- Unknown/Not Applicable: 51
Financial Data:

Mississippi Trauma Registry Data
Generated 03/03/2017
Top 6 Primary Payor Sources
October-December 2016
Total N=4991

Trauma Care Trust Fund:

<table>
<thead>
<tr>
<th>Month</th>
<th>Auto Privilege and Tag Fees</th>
<th>Interest</th>
<th>License’ Fees and Permits</th>
<th>Refunds</th>
<th>Total Collected</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 2016</td>
<td>1,065,630</td>
<td>90,057</td>
<td>90,057</td>
<td></td>
<td>1,155,687</td>
</tr>
<tr>
<td>November 2016</td>
<td>654,032</td>
<td>7,443</td>
<td>109,168</td>
<td></td>
<td>770,642</td>
</tr>
<tr>
<td>December 2016</td>
<td>712,809</td>
<td>9,915</td>
<td>1,609,599</td>
<td>630</td>
<td>2,332,323</td>
</tr>
<tr>
<td>Total</td>
<td>2,432,472</td>
<td>17,358</td>
<td>1,808,824</td>
<td>630</td>
<td>4,258,653</td>
</tr>
</tbody>
</table>