Indiana Trauma Care Committee Meeting
May 10, 2013
HOSPITALS REPORTING TO THE INDIANA TRAUMA REGISTRY – QUARTER 4

**District 1**
Methodist Northlake
Methodist Southlake

**District 2**
Community Hospital of Bremen
Memorial Hospital South Bend
Pulaski Memorial Hospital

**District 3**
Cameron Memorial
Dukes Memorial
Lutheran
Parkview Huntington
Parkview LaGrange
Parkview Noble
Parkview Regional Medical Center
Parkview Whitley
Hospitals Reporting to the Indiana Trauma Registry – Quarter 4

**District 4**
Franciscan St. Elizabeth – Lafayette Central
Franciscan St. Elizabeth – Lafayette East
IU Health – Arnett
IU Health – White Memorial

**District 5**
St. Francis - Indianapolis
Hendricks Regional Health
IU Health – Methodist
IU Health – Riley for Children
Johnson Memorial
Major Hospital
St. Vincent - Indianapolis
Wishard Health Services
Witham Health Services
Witham at Anson
HOSPITALS REPORTING TO THE INDIANA TRAUMA REGISTRY – QUARTER 4

**District 6**
IU Health – Ball Memorial
Reid Hospital
St. Vincent Anderson

**District 7**
Sullivan County Community
Terre Haute Regional
Union - Clinton

**District 8**
IU Health - Bedford
IU Health – Bloomington
Monroe Hospital

**District 9**

**District 10**
Deaconess
Memorial Hospital & Health Care Center
St. Mary’s Medical Center
HOSPITALS TRAINED ON THE TRAUMA REGISTRY (YTD)

- Cameron Memorial
- Methodist Southlake
- Monroe Hospital
- St. Vincent Anderson
- IU Health – North
- Community Hospital of Anderson & Madison
- Scott Memorial
- Good Samaritan
- Daviess Community
- Bluffton Regional
- IU Health - Tipton
QUARTER 4 2012 STATEWIDE REPORT

- 5,184 incidents
- October 1, 2012 to December 31, 2012
- 38 total hospitals reporting
  - 8 trauma centers
  - 30 hospitals
PATIENT DEMOGRAPHICS

Patient Age

Patient Age Groupings

Patient Gender

Patient Race
INJURY

Trauma Type

Cause of Injury

Injury Severity Score (ISS)

Month of Injury

* <0.5% COI: Fire/Burn, Bites/Stings, Pedestrian (Other), Natural/Environmental, Overexertion
**Disposition / Length of Stay**

**ED Disposition**

- **Floor Bed**: 46%
- **ICU**: 17%
- **OR**: 10%
- **Home w/o Services**: 6%
- **Transferred**: 4%
- **Observation**: 3%
- **Step-Down**: 1%
- **Died**: 1%
- **Unknown**: 11%

**ED Length of Stay (Hours)**

- **<1**: 6%
- **1-2**: 32%
- **3-5**: 40%
- **6-11**: 13%
- **12+**: 2%
- **NULL**: 7%

*<0.5% ED Disposition: AMA, Home with Services, Other*

**Hospital Disposition**

- **Home w/o Services**: 48%
- **Nursing Facility**: 17%
- **Rehab**: 10%
- **Acute Care**: 6%
- **Home w/Service**: 4%
- **Hospice care**: 3%
- **NULL**: 1%
- **Trauma**: 11%

**Hospital Length of Stay (Days)**

- **0-3**: 46%
- **4-7**: 24%
- **8-14**: 9%
- **15-21**: 3%
- **22-30**: 1%
- **31+**: 1%
- **NULL**: 17%

*<0.5% Hospital Disposition: AMA, Intermediate Care Center*
**Patient Outcomes**

**ICU Length of Stay (Days)**

- **Probability of Survival ($P_s$)**
  - $P_s < 50%$
  - $P_s \geq 50%$
  - Unable to calculate $P_s$

**Primary Payer Mix**

**W-Score by Region**

<table>
<thead>
<tr>
<th>Region</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Indiana</td>
<td>0.03</td>
</tr>
<tr>
<td>Central Indiana</td>
<td>-0.88</td>
</tr>
<tr>
<td>Southern Indiana</td>
<td>-0.77</td>
</tr>
<tr>
<td>State Average</td>
<td>-0.57</td>
</tr>
</tbody>
</table>

*Describes the number of unexpected survivors (+ value) or deaths (- value) per 100 patients*
FOLLOW-UP – NON-TRAUMA CENTERS THAT DO NOT RECEIVE PATIENTS FROM ANOTHER ACUTE CARE FACILITY

- St. Vincent Anderson
- IU Health – White Memorial
- Witham Health Center
- Schneck Medical Center
- Johnson Memorial
- Methodist Northlake
- Community Anderson
- Dukes Memorial
- Daviess Community
- Cameron Memorial
- Henry County

- St. Francis – Indy
- Good Samaritan
- Pulaski Memorial
- Memorial Hospital & Health Care Center
- Community Hospital of Bremen
- Hendricks Regional
FOLLOW-UP: HOSPITAL TO HOSPITAL TRANSFERS

Hospital to Hospital Transfers

Percentage of hospital to hospital transfer times per category

Ten Minute Categories

0% 3% 8% 16% 9% 7% 5% 4% 2% 2% 1% 0% 3%

0-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-100 101-110 111-120 > Null
**Follow-up: Transfer Patients – Average ED LOS by Probability of Survival**

<table>
<thead>
<tr>
<th>Probability of Survival</th>
<th>ED Length of Stay</th>
</tr>
</thead>
<tbody>
<tr>
<td>$P_s &lt; 50%$ (n=5)</td>
<td>2.0 hours</td>
</tr>
<tr>
<td>$P_s \geq 50%$ (n=204)</td>
<td>3.0 hours</td>
</tr>
<tr>
<td>Unable to calculate $P_s$ (n=144)</td>
<td>2.7 hours</td>
</tr>
</tbody>
</table>
Follow-Up: ED LOS by ISS

ED LOS by ISS

- ISS Scores
- 1-8
- 9-14
- 15-24
- 25-44
- 45-74
- 75

- NULL
- <1 hour
- 1-2 hours
- 3-5 hours
- 6-11 hours
- 12 or more hours
FOLLOW-UP: HOSPITAL LOS BY PROBABILITY OF SURVIVAL

![Hospital LOS by P_s](chart.png)

- Ps < 50%
  - NULL: 36%
  - 31+ Days: 7%
  - 22-30 Days: 10%
  - 15-21 Days: 8%
  - 8-14 Days: 7%
  - 4-7 Days: 28%
- Ps >= 50%
  - NULL: 47%
  - 31+ Days: 1%
  - 22-30 Days: 9%
  - 15-21 Days: 24%
QUESTIONS?