



Indiana Trauma Care Committee Meeting

May 9, 2014

HOSPITALS REPORTING TO THE INDIANA TRAUMA REGISTRY – QUARTER 4 2013

District 1

Methodist Northlake

Methodist Southlake

Porter Regional (Valparaiso)

St. Anthony – Crown Point

St. Margaret – Dyer

St. Margaret - Hammond

District 2

Community Hospital of
Bremen

Elkhart General

Kosciusko Community

Memorial Hospital South Bend

Pulaski Memorial



HOSPITALS REPORTING TO THE INDIANA TRAUMA REGISTRY – QUARTER 4 2013

District 3

Cameron Memorial
Dukes Memorial
Lutheran
Parkview Huntington
Parkview LaGrange
Parkview Noble
Parkview Randallia
Parkview Regional Medical
Center
Parkview Whitley

District 4

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



HOSPITALS REPORTING TO THE INDIANA TRAUMA REGISTRY – QUARTER 4 2013

District 5

Eskenazi Health

St. Francis – Indianapolis

St. Francis - Mooresville

Hendricks Regional Health

IU Health – Methodist

IU Health – North

IU Health – Riley for Children

Johnson Memorial

Major Hospital

St. Vincent - Indianapolis

Witham Health Services

Witham at Anson



HOSPITALS REPORTING TO THE INDIANA TRAUMA REGISTRY – QUARTER 4 2013

District 6

Community Hospital of
Anderson & Madison Co.
Henry County
IU Health – Ball Memorial
IU Health – Tipton
Marion General
Reid Hospital
St. Vincent Anderson

District 7

Greene County General
St. Vincent - Clay
~~Sullivan County Community~~
Terre Haute Regional
Union Hospital
Union - Clinton

District 8

IU Health - Bedford
IU Health – Bloomington
Monroe Hospital
Schneck Medical Center



HOSPITALS REPORTING TO THE INDIANA TRAUMA REGISTRY – QUARTER 4 2013

District 9

Floyd Memorial

District 10

Daviess Community

Deaconess

Deaconess Gateway

Good Samaritan

Memorial Hospital & Health
Care Center

Perry County Memorial

St. Mary's Medical Center

St. Mary's Warrick



SUMMARY OF HOSPITALS REPORTING STATUS – Q4 2013

New to Reporting / Started Reporting Again

- Deaconess Gateway*
- Floyd Memorial*
- Greene County General*
- Kosciusko Community
- Pulaski Memorial
- St. Elizabeth - Central
- St. Margaret – Hammond*

* = New to Reporting

Dropped off

- Sullivan County



HOSPITALS TRAINED ON THE TRAUMA REGISTRY (YTD)

- Adams Memorial
- Clark Memorial
- Community - Anderson
- Community - Howard
- Community - North
- Daviess Community
- Deaconess Gateway
- DeKalb Memorial
- Dupont Hospital
- Floyd Memorial
- Gibson General
- Good Samaritan
- Greene County General
- IU Health – Bedford
- IU Health – Blackford
- IU Health - LaPorte
- IU Health - Morgan
- IU Health – Paoli
- Jay County
- King's Daughters' Health
- Kosciusko Community
- Margaret Mary Health
- Memorial (Jasper)
- Memorial (Logansport)
- Perry County Memorial
- Porter Regional
- Pulaski Memorial
- Putnam County
- Rush Memorial
- Scott Memorial
- Schneck Medical Center
- St. Anthony – Michigan City
- St. Catherine Regional (Charlestown)
- St. Joseph (Kokomo)
- St. Joseph RMC – Mishawaka
- St. Joseph RMC – Plymouth
- St. Mary's (Hobart)
- St. Mary's Warrick
- St. Vincent – Anderson
- St. Vincent - Randolph
- St. Vincent – Williamsport
- Wabash County
- Woodlawn Hospital



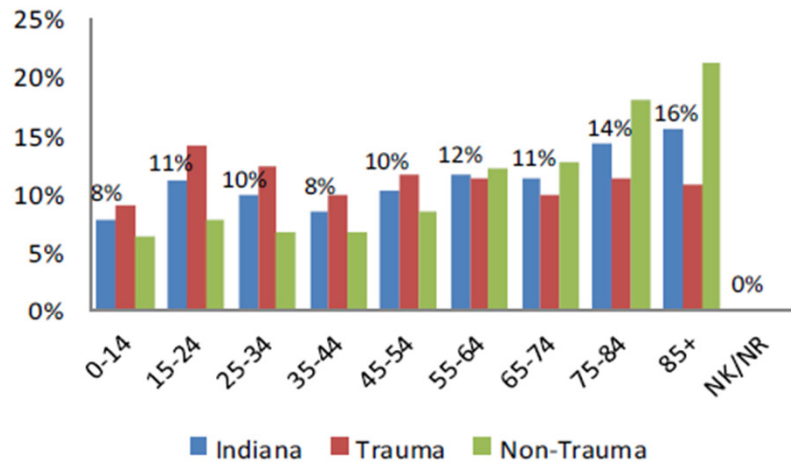
QUARTER 4 2013 STATEWIDE REPORT

- 5,839 incidents
- October 1, 2013 to December 31, 2013
- 60 total hospitals reporting
 - 9 trauma centers
 - 51 hospitals

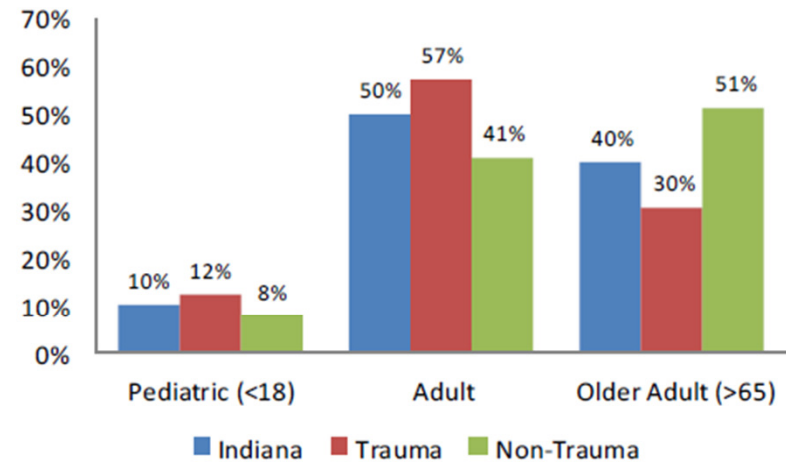


PATIENT DEMOGRAPHICS – PAGE 2

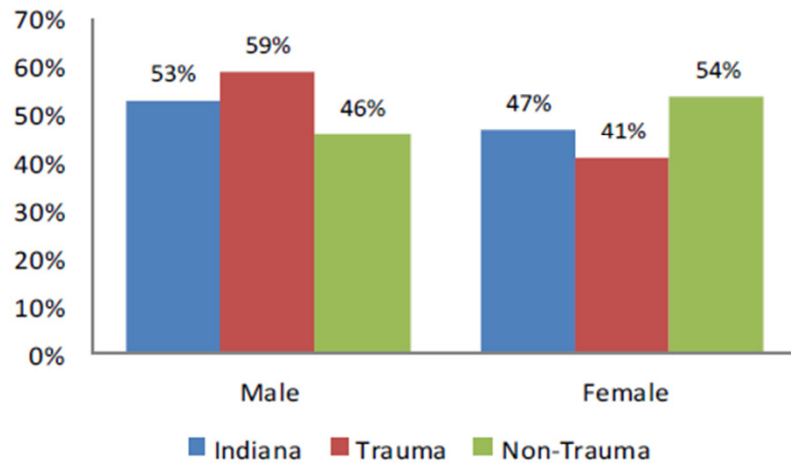
Patient Age (Years)



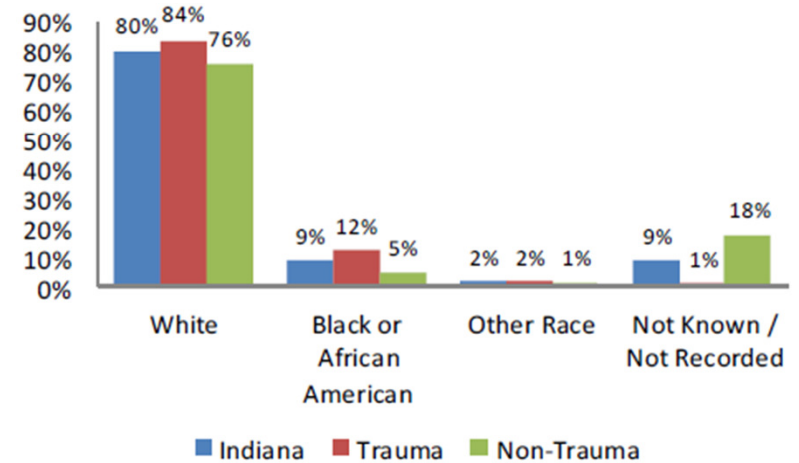
Patient Age Groupings



Patient Gender



Patient Race

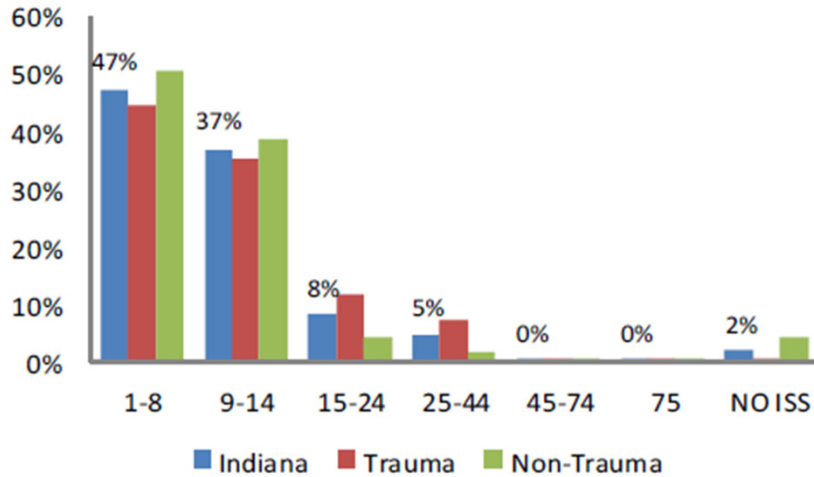


There were two unknown ages reported, which represents 0.03% of the data.

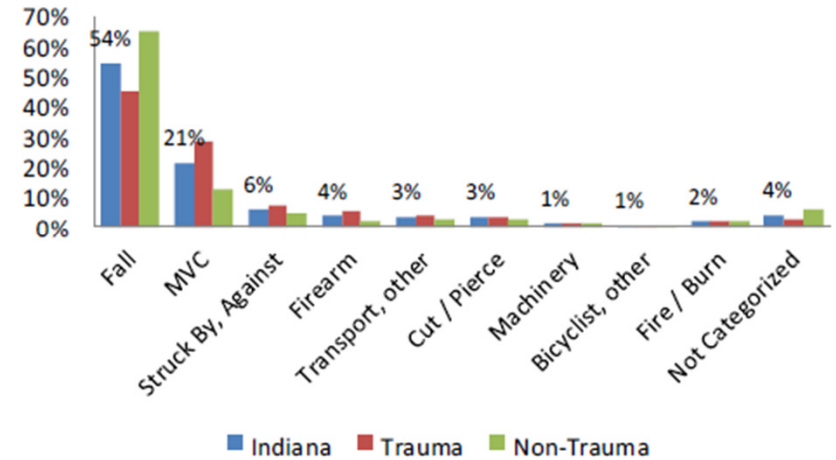
<1% Race - Asian, Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native

INJURY – PAGE 3

Injury Severity Score (ISS)

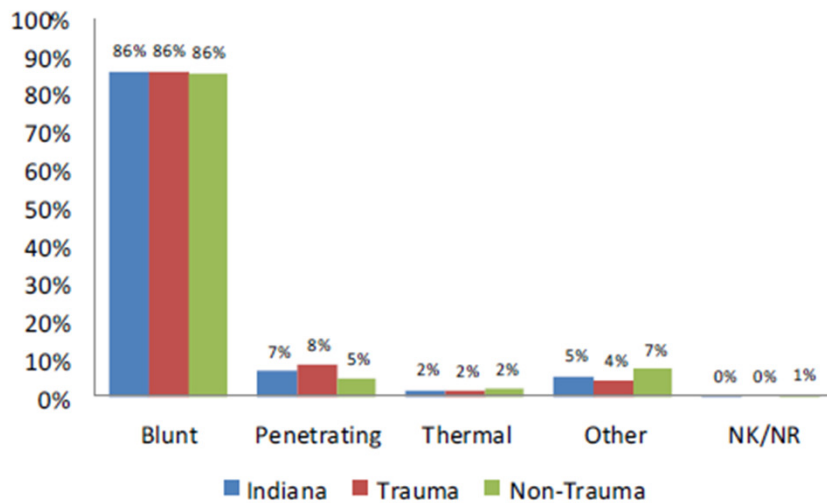


Cause of Injury

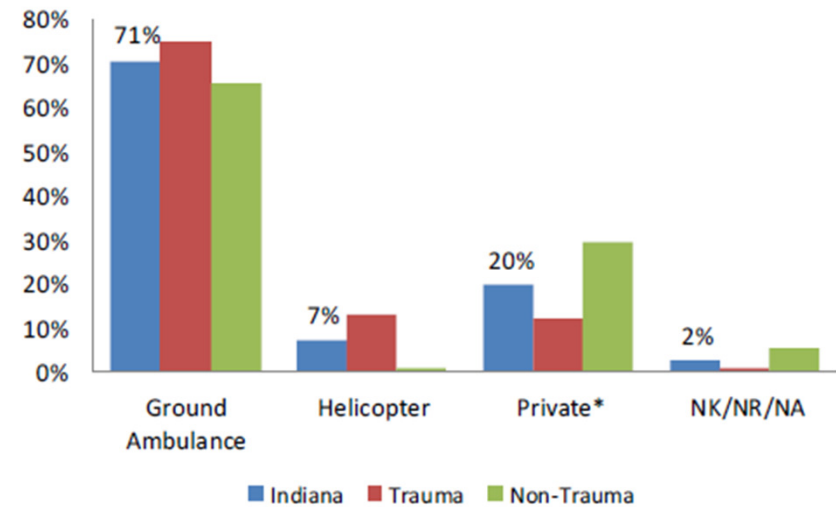


<1% COI: Pedestrian Traffic Accident, Natural/Environment, Fire/Burn, Overexertion, Bites/Stings, No E-Code

Trauma Type



Transport Mode

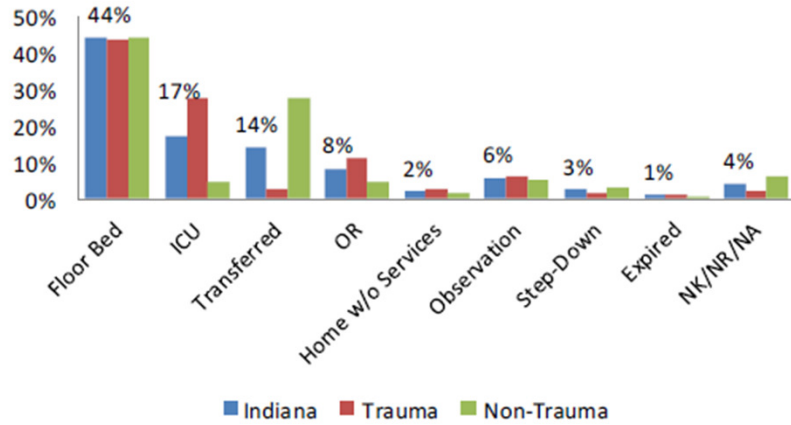


<1% Transport Mode: Police, Other

* Indicates Private/ Public Vehicle, Walk-in

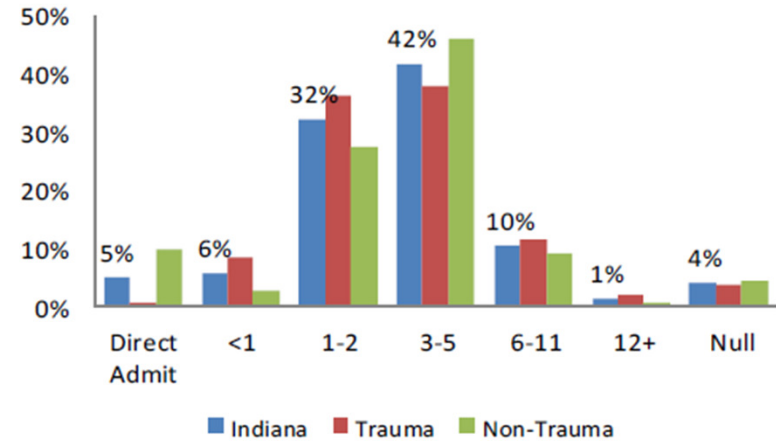
ED: DISPOSITION / LENGTH OF STAY – PAGE 4

ED Disposition by Percentage

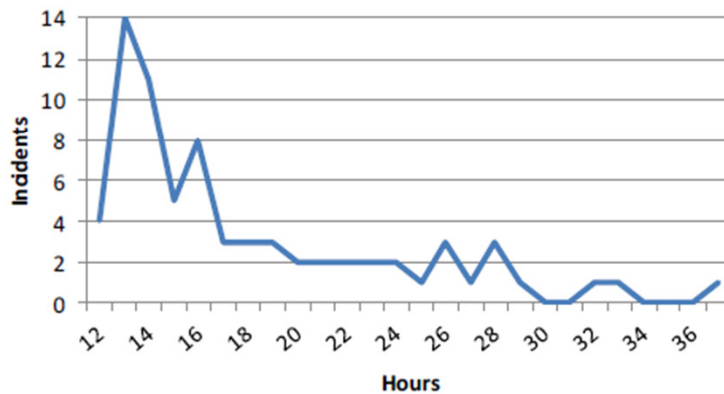


<1% ED Disposition: AMA; Home with Services; Other

ED Length of Stay (Hours)

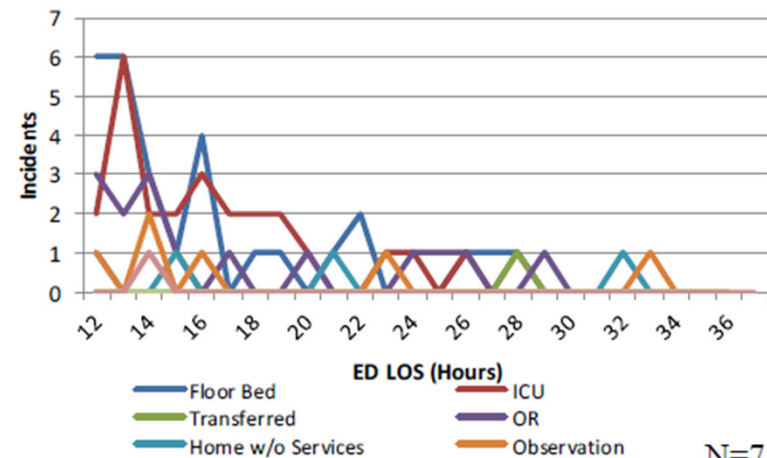


ED LOS >12 Hours



N=73

ED Disposition for ED LOS >12 Hours

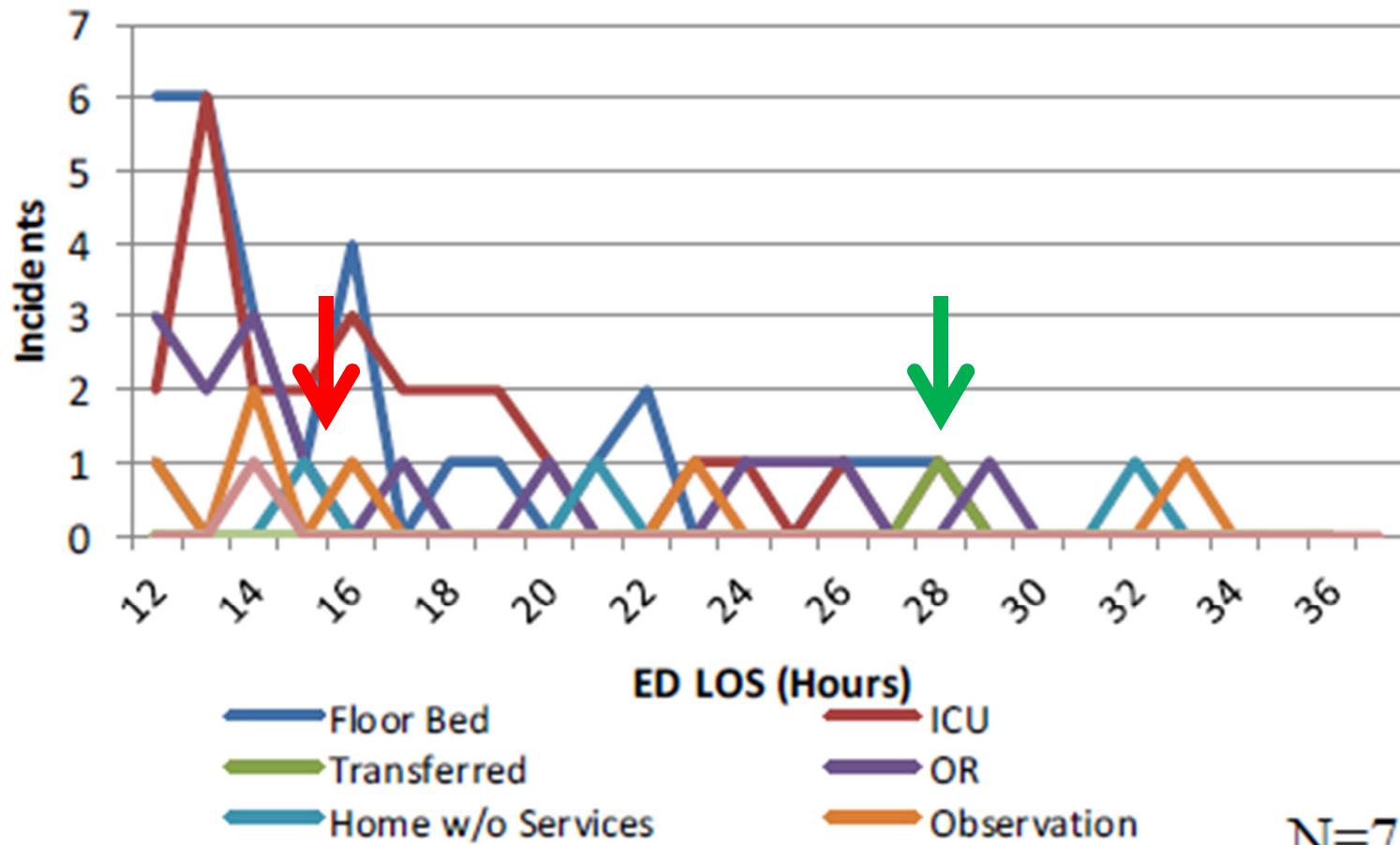


N=73

One Patient Expired at 14 Hours

ED: DISPOSITION / LENGTH OF STAY – PAGE 4

ED Disposition for ED LOS >12 Hours

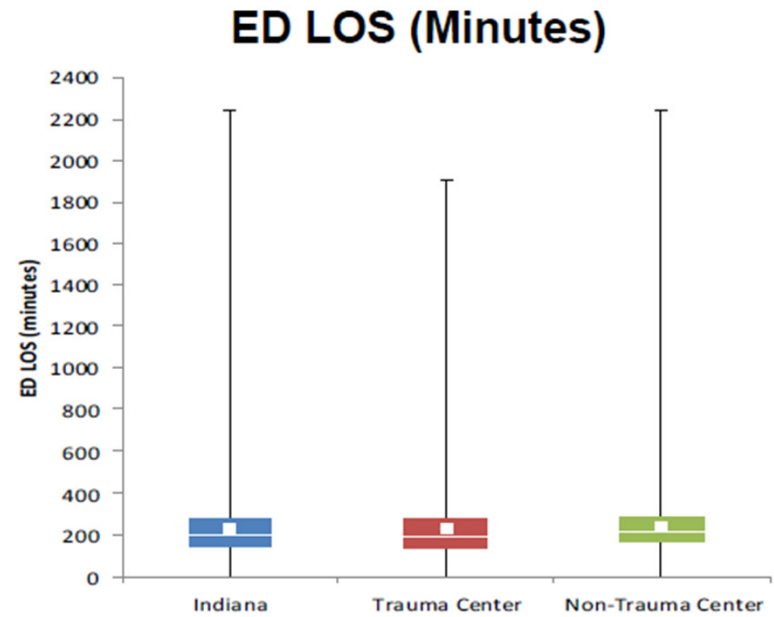
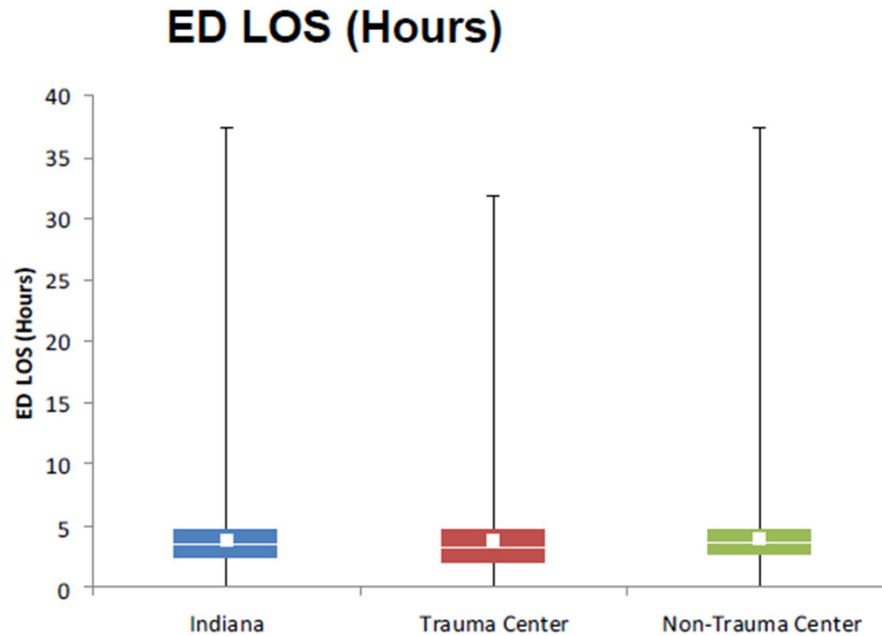
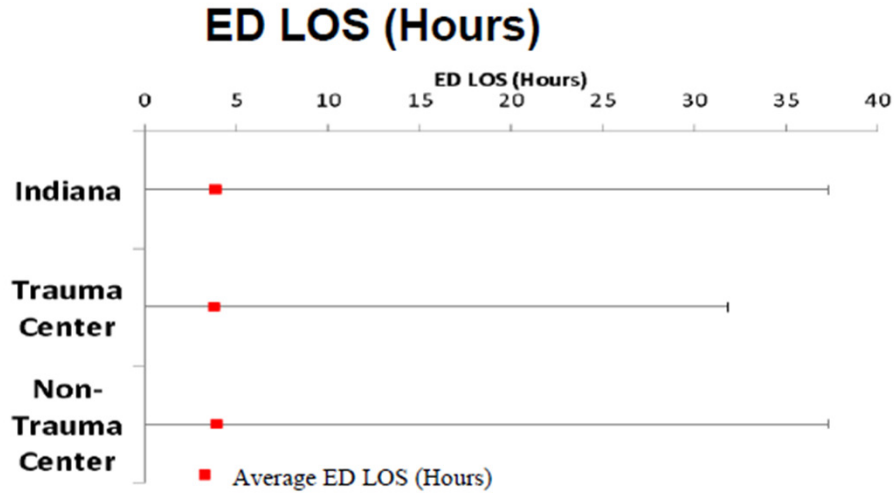


One Patient Expired at 14 Hours

N=73

+

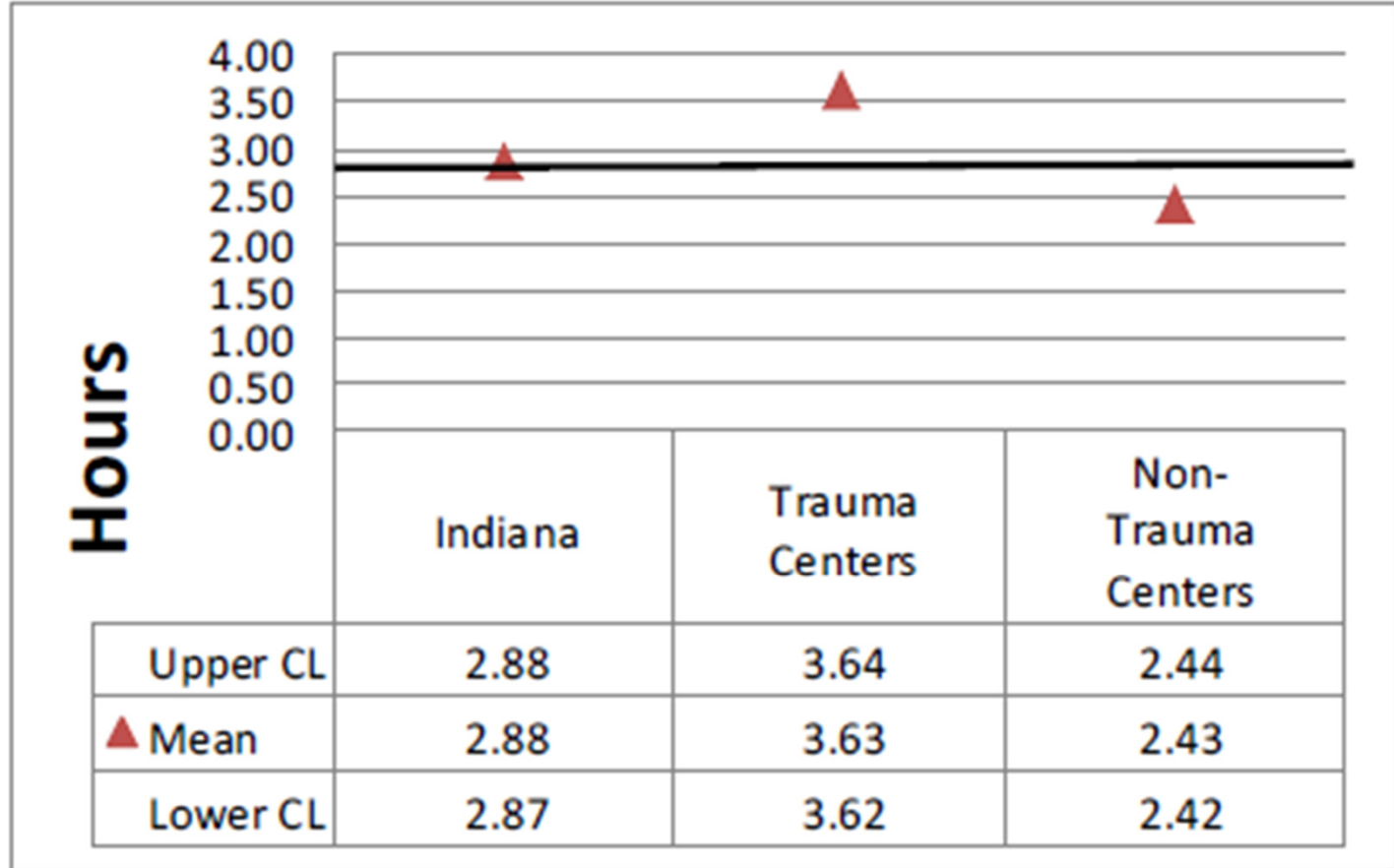
ED LENGTH OF STAY: BAR & WHISKER – PAGE 5



A table with all the values for ED LOS is found on page 22. An explanation and example of bar and whisker plots can be found on page 25.

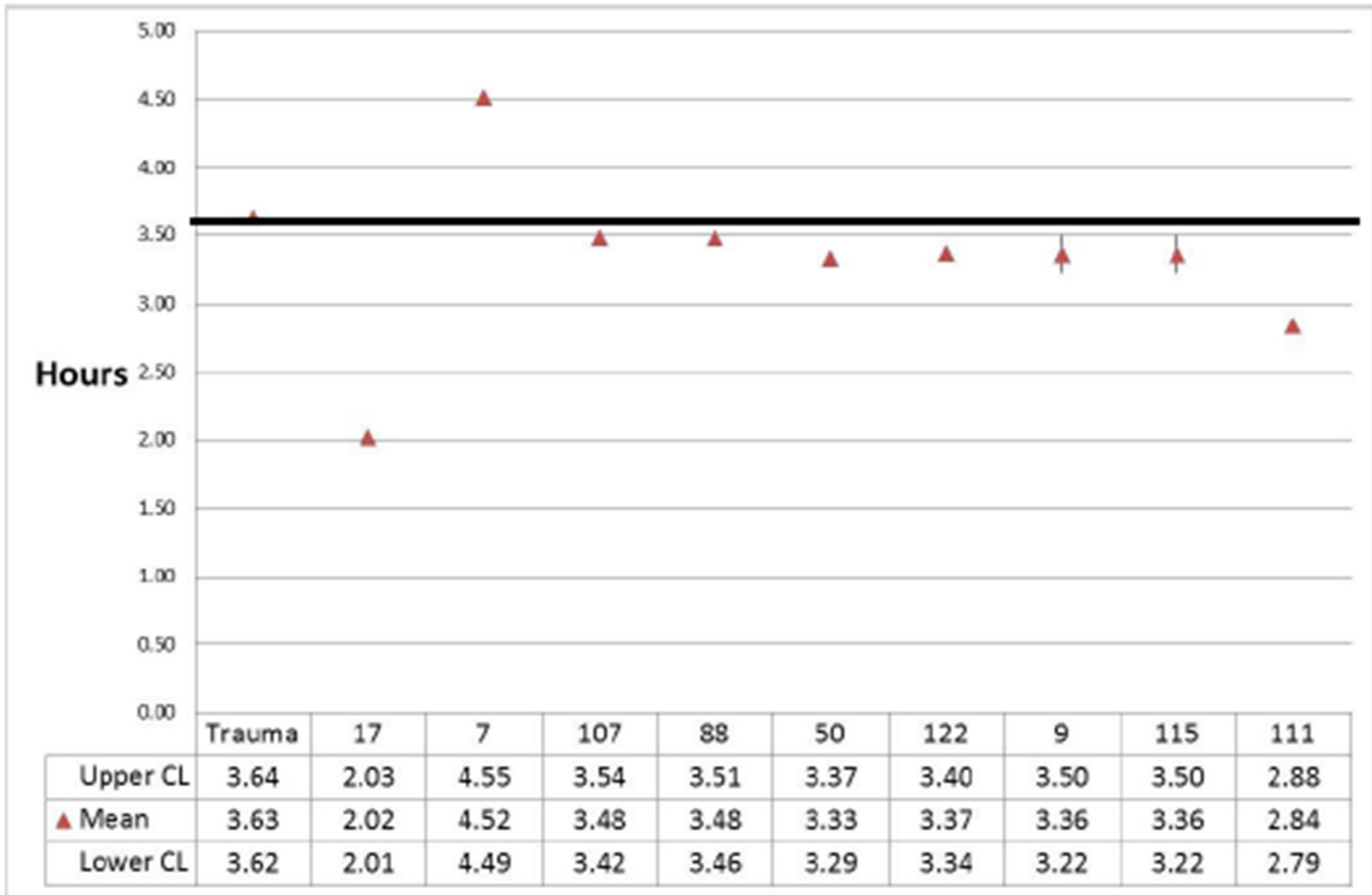
AVERAGE ED LOS: CATERPILLAR GRAPH – PAGE 6

Average ED LOS (Hours)



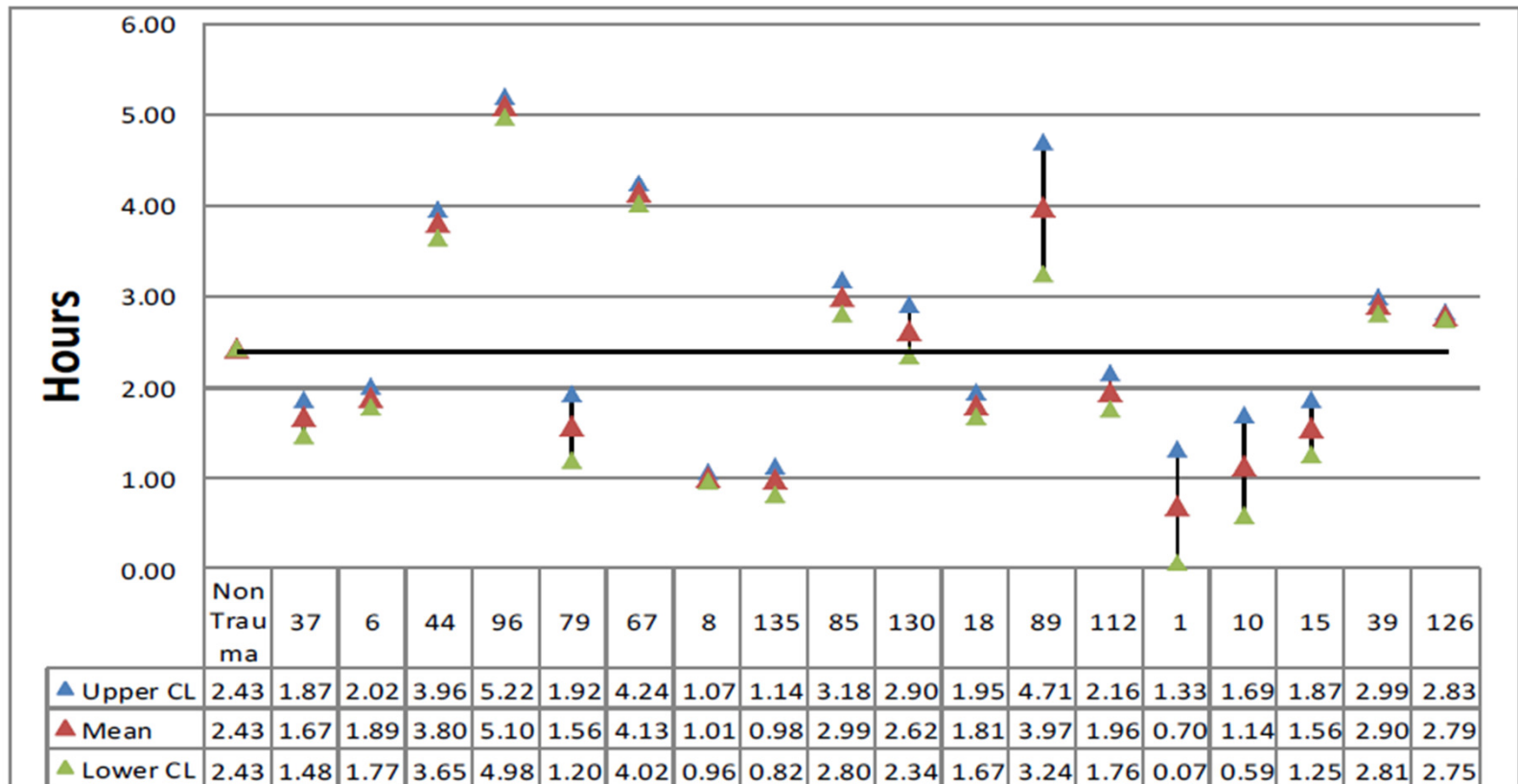
AVERAGE ED LOS: CATERPILLAR GRAPH – PAGE 6

Trauma Centers-Average ED LOS (Hours)



AVERAGE ED LOS: CATERPILLAR GRAPH – PAGE 7

Non-Trauma Centers- Average ED LOS (Hours)

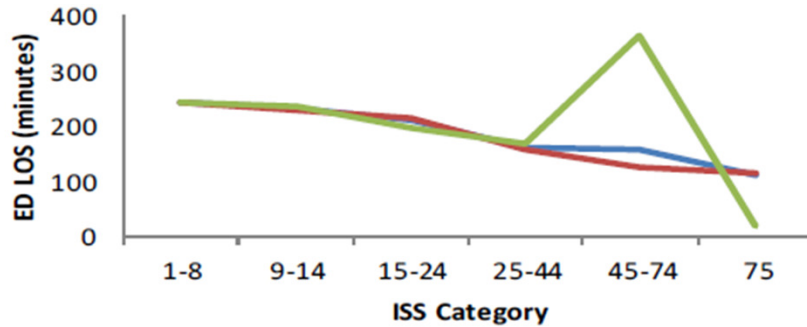


The purpose of the caterpillar graphs is to compare different groups to the average ED LOS. The Indiana mean is the comparison group, which is represented by the black line.

In the chart above, the data is for the non-trauma centers. The non-trauma center average is in the first column on the left side. Each non-trauma center has been assigned a random number for confidentiality. The mean, 95% confidence limit and lower confidence limit is listed for each group.

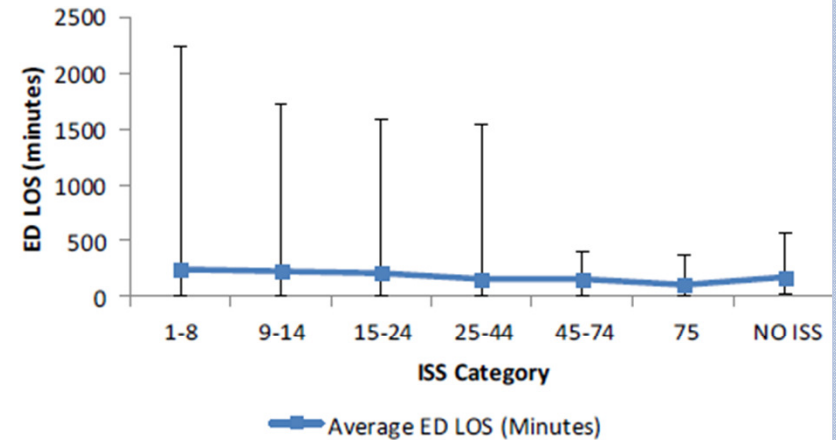
ED LOS BY ISS – PAGE 8

ED LOS (Minutes) by ISS



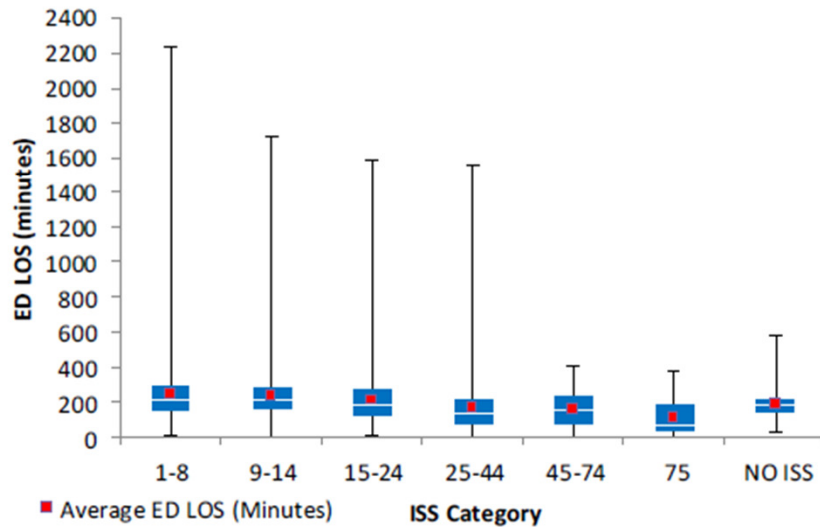
— Indiana Average — Trauma Center
— Non-Trauma Center

ED LOS (Minutes) by ISS



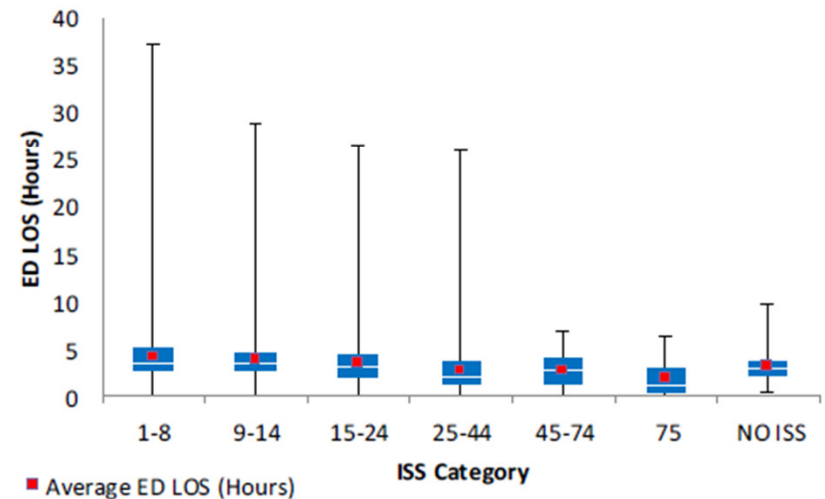
■ Average ED LOS (Minutes)

ED LOS (Minutes) by ISS



■ Average ED LOS (Minutes)

ED LOS (Hours) by ISS

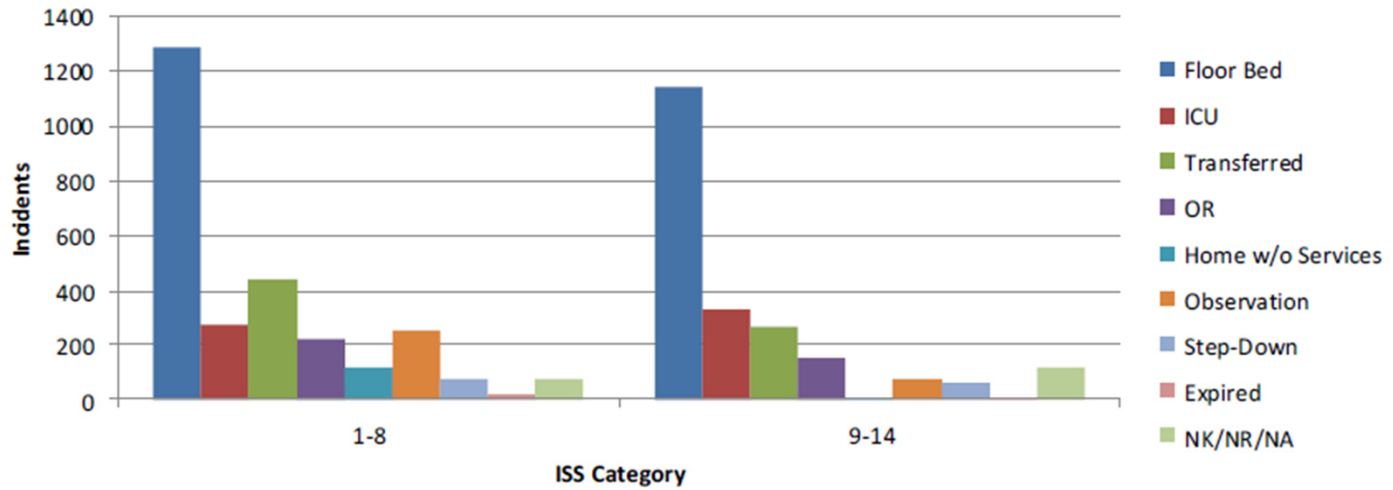


■ Average ED LOS (Hours)

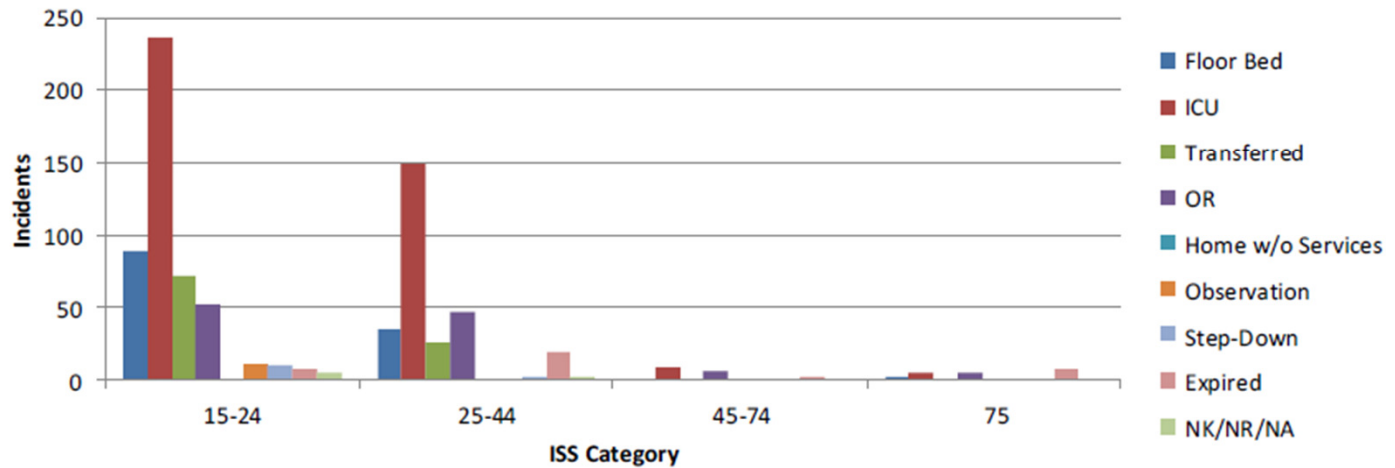
*A table with values for ED LOS by ISS is found on page 22. Note for ED LOS by ISS, there were 3 cases at Non-Trauma Centers with ISS greater than 45.

ED DISPOSITION BY ISS – PAGE 9

ED Disposition by ISS 1-14



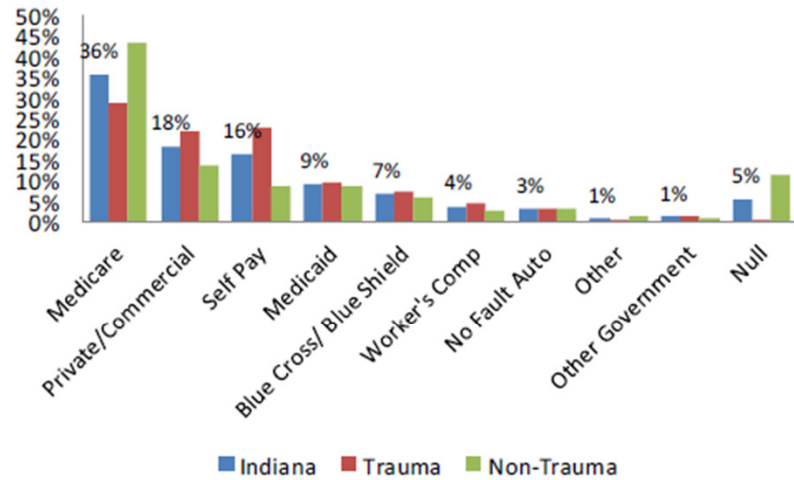
ED Disposition by ISS 15-75



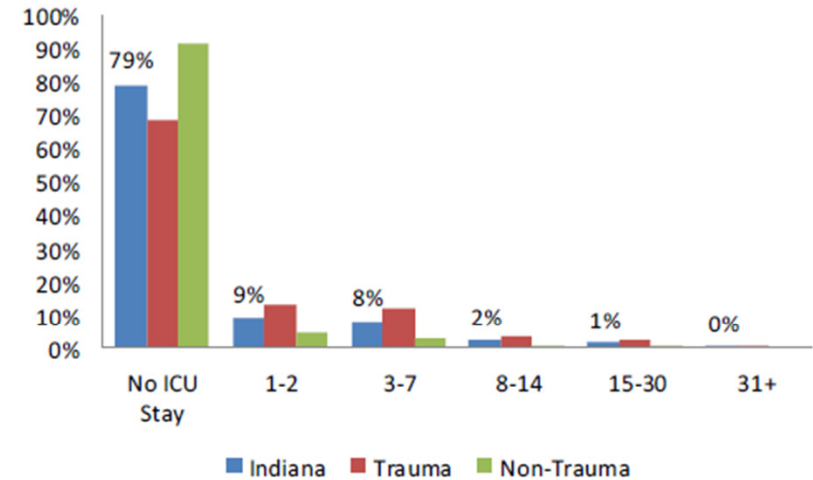
ED Disposition <1%: AMA; Home with services; Other (Jail, Mental Institution, etc.). Please note the difference in axis scale between the top and bottom graphs.
 *A table with values for ED Disposition by ISS is found on page 23.

PATIENT OUTCOMES— PAGE 10

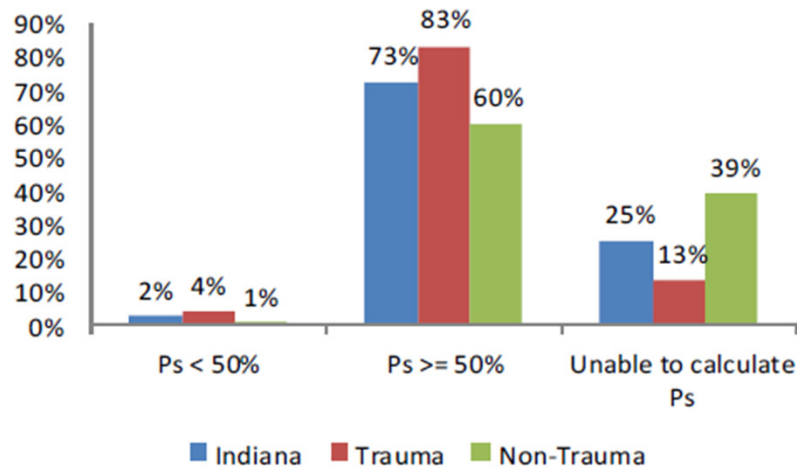
Primary Payer Mix



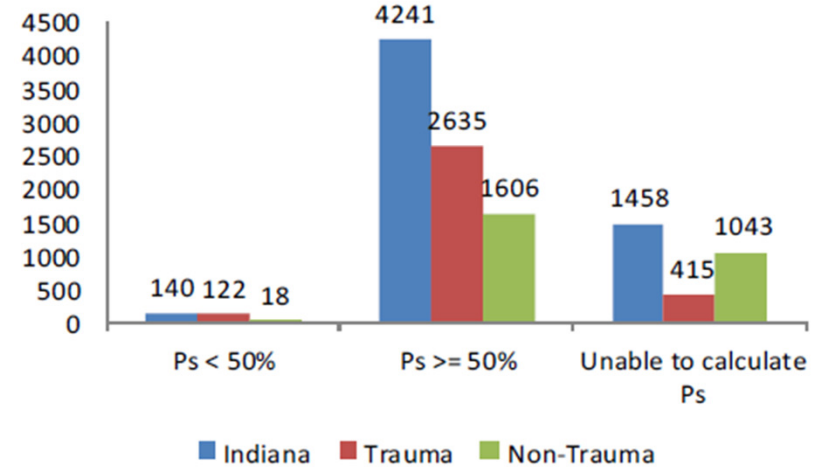
ICU Length of Stay (Days)



Probability of Survival (Ps) by Percent



Probability of Survival (Ps) by Count

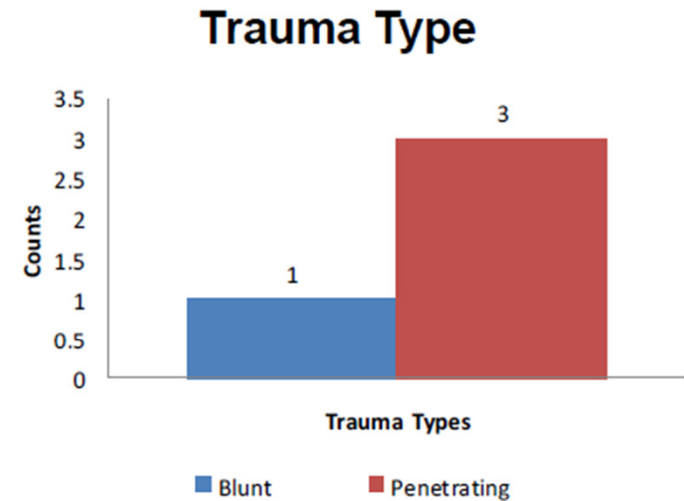


Due to the many data points required to calculate Ps, not every patient has a calculated Ps. These two graph represents 4,381 incidents with calculated Ps.

CASES TO REVIEW – PAGE 11

ED Disposition of Expired for Ps ≥50%, N=4

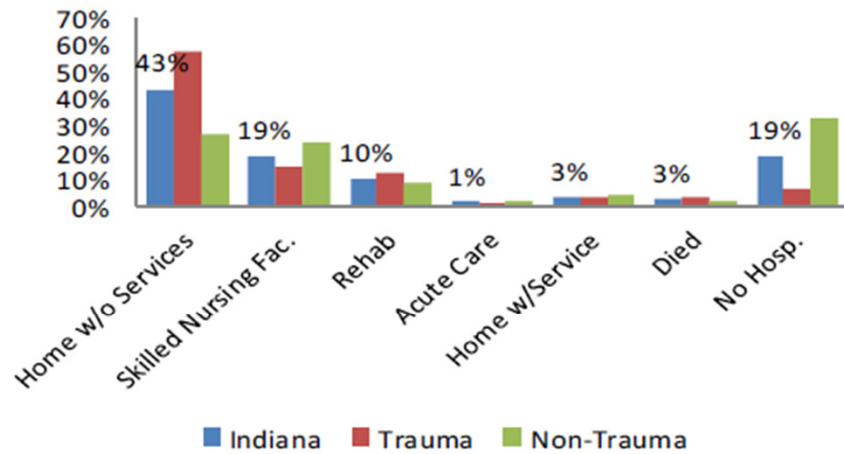
| Patients with Ps ≥50% Expired in ED, N=4 | |
|--|--|
| Gender | 4 Males |
| Average Age | 33.5 years (19-54 years) |
| Facilities | 3 Non-Trauma Centers 1 Trauma Center |
| Transport Type | 3 Ground ambulance; 1 Private/public vehicle/walk-in |
| Cause of Injury | 1 MVC; 2 Cut/Pierce; 1 Firearm |
| Inter-Facility Transfer | 0 Transfers |
| Average Distance from Scene to Facility | 7.2 miles (2.9-13.3 miles) |
| Signs of Life | 2 Arrived with no signs of life; 2 Arrived with signs of life |



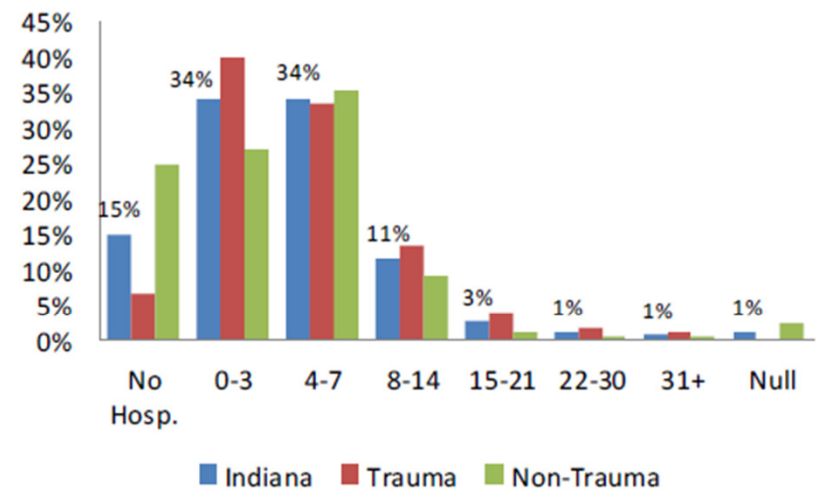
| | Trauma Type | ISS | RTS- GCS Scale | RTS- Systolic Scale | RTS- Respiratory Scale | Revised Trauma Score (RTS) | B Value | PS | Signs of life |
|---|-------------|-----|----------------|---------------------|------------------------|----------------------------|---------|--------|-------------------------------|
| 1 | Penetrating | 2 | 0 | 4 | 3 | 3.80 | 1.11 | 0.7525 | Arrived with no signs of Life |
| 2 | Penetrating | 26 | 4 | 4 | 3 | 7.55 | 3.27 | 0.9634 | Arrived with signs of Life |
| 3 | Penetrating | 14 | 3 | 4 | 3 | 6.61 | 3.12 | 0.9578 | Arrived with signs of Life |
| 4 | Blunt | 20 | 0 | 4 | 3 | 3.80 | 0.95 | 0.7221 | Arrived with no signs of Life |

HOSPITAL DISPOSITION / LENGTH OF STAY – PAGE 12

Hospital Disposition

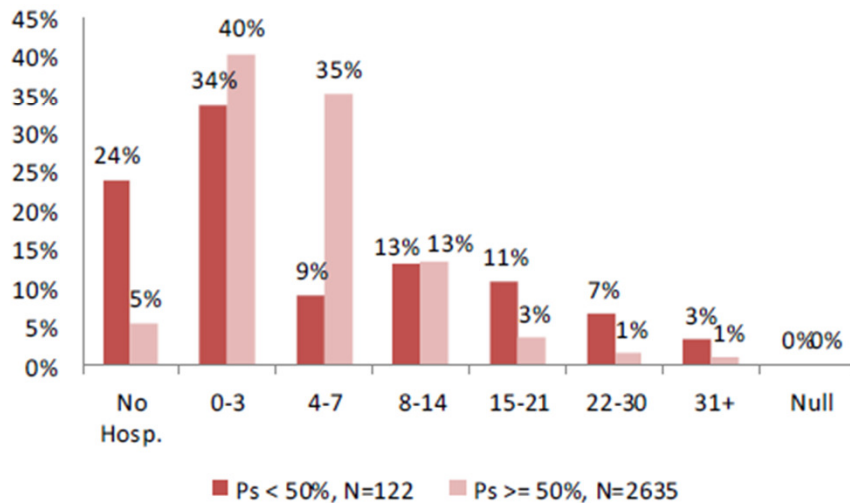


Hospital Length of Stay (days)

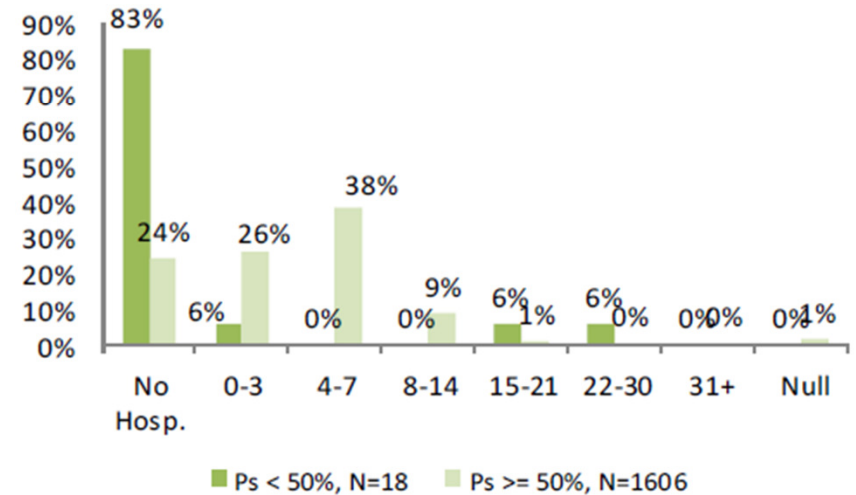


*<1% Hospital Disposition: Intermediate Care Center, Hospice Care, AMA

Hospital LOS (days) by Ps Trauma Centers



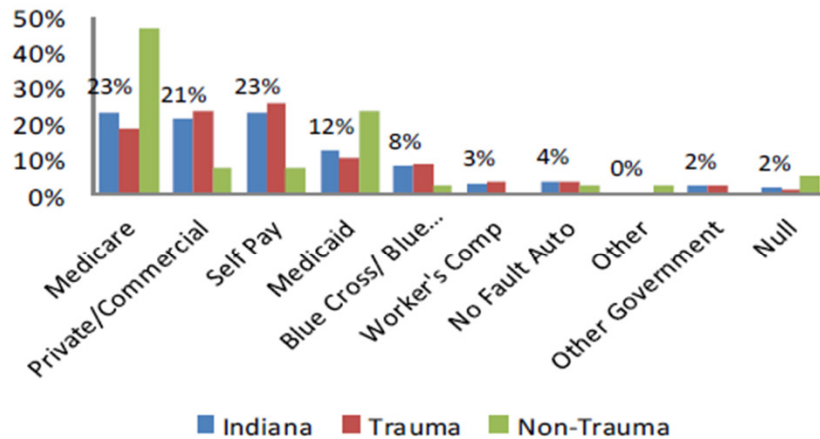
Hospital LOS (days) by Ps Non-Trauma Centers



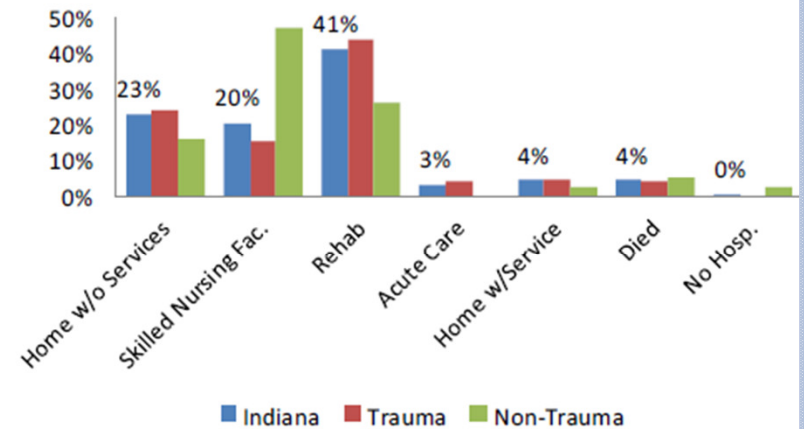
HOSPITAL LENGTH OF STAY > 15 DAYS – PAGE 13

Hospital Length of Stay > 15 days, N=249

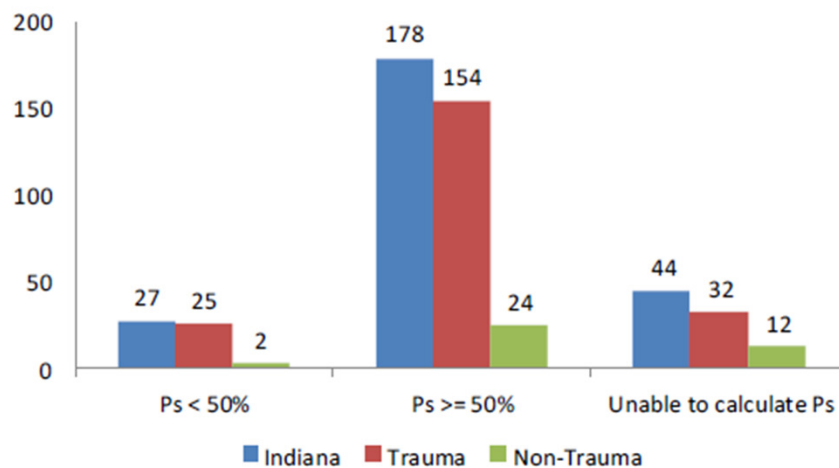
Primary Payer Mix



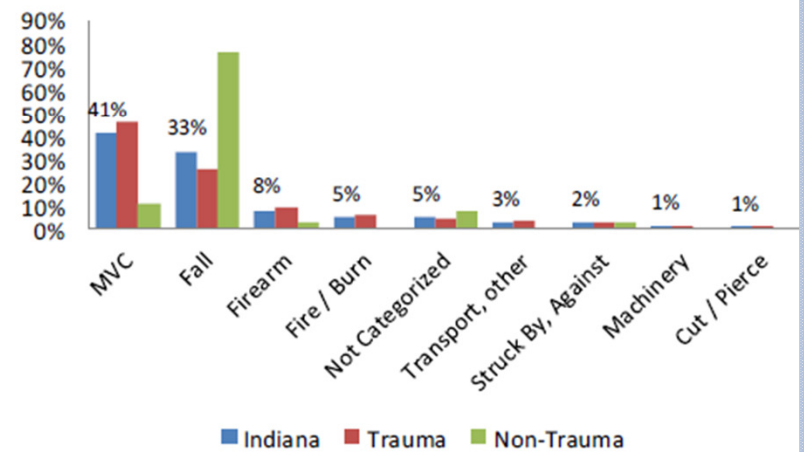
Hospital Disposition



Probability of Survival



Cause of Injury



Hospital Length of Stay > 15 Days: Total N=249; Trauma Center N= 211; Non-Trauma Center N=38

ADDED: TRANSFER CASES COVER PAGE – PAGE 14

Indiana Trauma Registry

Statewide Quarter 4 Data Report

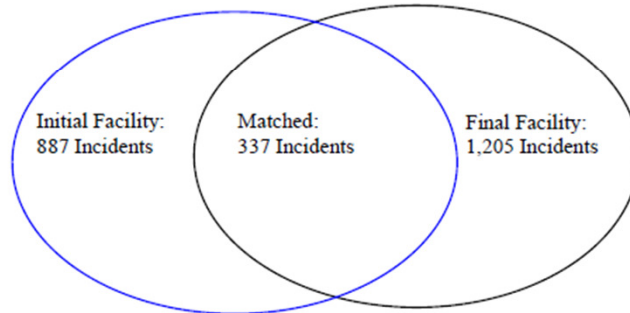
October 1, 2013 to December 31, 2013

5,839 Incidents-337 Linked Transfer Cases

60 Total Hospitals Reporting

Trauma Centers: 9 facilities 54.3% of data
(Non-Trauma) Hospitals: 51 facilities 45.7% of data

For Quarter 4 2013, of the 5,839 incidents reported to the Indiana Trauma Registry, 2,092 cases that had an ED Disposition of “Transferred to another acute care facility” at the initial facility or that had the Inter-Facility Transfer equal to “Yes” at the Trauma Center. Of those transferred, 337 cases were probabilistically matched. The linked cases make up 11.5% of the Q4 2013 data. All public health preparedness districts are represented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can then be matched.



The initial facility in which transfers come from may be considered Critical Access Hospitals (CAHs). All Indiana CAHs are considered Rural, and must meet additional requirements to have a CAH designation, such as having no more than 25 inpatient beds and being located in a rural area. Facilities that are highlighted indicate that this facility reported data for Quarter 4 2013.

Within this transfer data section, the purple columns represent the transfer cases and the single percentages represent the percent for the transfer cases. For two demographic variables, patient age groupings and gender, the Indiana average is included to provide more insight to this transfer population.

Indiana Critical Access Hospitals (CAHs)

| | |
|-------------------------------------|-------------------------------------|
| Adams Memorial Hospital | Pulaski Memorial Hospital |
| Cameron Memorial Community Hospital | Putnam County Hospital |
| Community Hospital of Bremen | Rush Memorial Hospital |
| Decatur County Memorial Hospital | Scott Memorial Hospital |
| Dukes Memorial Hospital | St. Mary's Warrick Hospital |
| Gibson General Hospital | St. Vincent – Clay Hospital |
| Greene County General Hospital | St. Vincent – Dunn Hospital |
| Harrison County Hospital | St. Vincent – Frankfort Hospital |
| IU Health – Bedford Hospital | St. Vincent – Jennings Hospital |
| IU Health – Blackford Hospital | St. Vincent – Mercy Hospital |
| IU Health – Paoli Hospital | St. Vincent – Randolph Hospital |
| IU Health – Tipton Hospital | St. Vincent- Salem Hospital |
| IU Health – White Memorial Hospital | St. Vincent – Williamsport Hospital |
| Jasper County Hospital | Sullivan County Community Hospital |
| Jay County Hospital | Union Hospital Clinton |
| Margaret Mary Community Hospital | Wabash County Hospital |
| Parkview LaGrange Hospital | Woodlawn Hospital |
| Perry County Memorial Hospital | |

Indiana Rural Hospitals

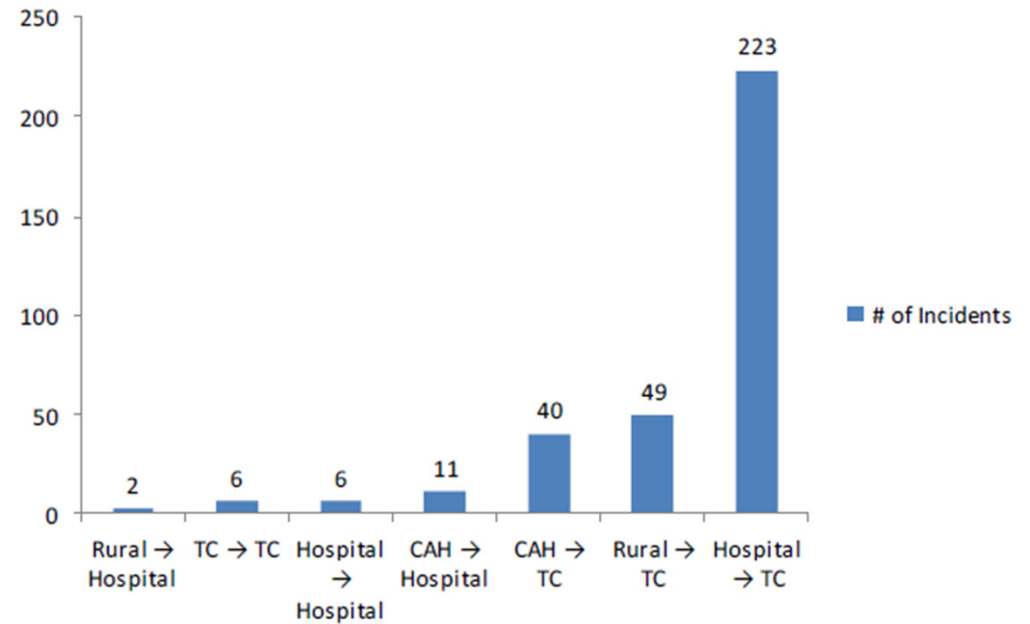
| | |
|--|---|
| Columbus Regional Hospital | Kosciusko Community Hospital |
| Fayette Regional Health System | Marion General Hospital |
| Franciscan St. Anthony Health – Michigan City | Memorial Hospital (Logansport) |
| Franciscan St. Elizabeth Health – Crawfordsville | Memorial Hospital & Health Care Center (Jasper) |
| Good Samaritan Hospital | Parkview Noble Hospital |
| Henry County Memorial Hospital | Reid Hospital & Health Care Services |
| IU Health – LaPorte Hospital | St. Joseph's Regional Medical Center – Plymouth |
| IU Health – Starke Hospital | Schneck Medical Center |
| King's Daughters' Health | |

TRANSFER PATIENT: FACILITY TYPE – PAGE 15

Facility to Facility Transfers

| For Transfer Patients: | | |
|--------------------------|---------------------|-----------------|
| Initial Hospital Type | Final Hospital Type | Incident Counts |
| Rural Hospital | Hospital | 2 |
| Hospital | Hospital | 6 |
| Trauma Center | Trauma Center | 6 |
| Critical Access Hospital | Hospital | 11 |
| Critical Access Hospital | Trauma Center | 40 |
| Rural Hospital | Trauma Center | 49 |
| Hospital | Trauma Center | 233 |
| Total | | 337 |

Facility Transfer Type



Rural = Rural Hospital; TC = ACS Verified Trauma Center; CAH = Critical Access Hospital; Hospital = does not fall into above categories



TRANSFER PATIENT DATA AVERAGES – PAGE 16

For Linked Transfer Patients:

| For Transfer Patients: | | | |
|--|---------------------------|------------------------------------|---|
| | All Transfer Patients | <u>Critical*</u> Transfer Patients | <u>Physiological Critical**</u> Transfer Patients |
| Number of Patients | 337 | 101 | 64 |
| EMS Notified to Scene | 9 minutes | 9 minutes | 8 minutes |
| EMS Scene Arrival to Departure | 16 minutes | 15 minutes | 14 minutes |
| EMS Scene Departure to Initial Hospital ED Arrival | 19 minutes | 20 minutes | 16 minutes |
| Initial Hospital ED Arrival to Departure | 2 hours 58 minutes | 2 hours 42 minutes | 2 hours 35 minutes |
| Initial Hospital ED Departure to Final Hospital ED Arrival | 1 hour 10 minutes | 59 minutes | 56 minutes |
| TOTAL TIME | 4 hours 52 minutes | 4 hours 25 minutes | 4 hours 6 minutes |

*Critical patient is defined as having a GCS \leq 12, OR Shock Index $>$ 0.9 OR ISS $>$ 15 at the initial hospital.

**Physiological Critical Transfer patient is defined as having a Shock Index $>$ 0.9 OR GCS \leq 12 at the initial hospital.

TRANSFER PATIENT DATA AVERAGES – PAGE 16

| | All Transfer Patients |
|---|-----------------------|
| Number of Patients | 337 |
| EMS Notified to Scene | 9 minutes |
| EMS Scene Arrival to Departure | 16 minutes |
| EMS Scene Departure to Initial Hospital ED Arrival | 19 minutes |
| Initial Hospital ED Arrival to Departure | 2 hours 58 minutes |
| Initial Hospital ED Departure to Final Hospital ED Arrival | 1 hour 10 minutes |
| TOTAL TIME | 4 hours 52 minutes |



TRANSFER PATIENT DATA AVERAGES – PAGE 16

| | <u>Critical* Transfer Patients</u> |
|--|------------------------------------|
| Number of Patients | 101 |
| EMS Notified to Scene | 9 minutes |
| EMS Scene Arrival to Departure | 15 minutes |
| EMS Scene Departure to Initial Hospital ED Arrival | 20 minutes |
| Initial Hospital ED Arrival to Departure | 2 hours 42 minutes |
| Initial Hospital ED Departure to Final Hospital ED Arrival | 59 minutes |
| TOTAL TIME | 4 hours 25 minutes |

Critical Patient defined as:

- ISS > 15
- OR
- GCS ≤ 12
- OR
- Shock Index > 0.9



TRANSFER PATIENT DATA AVERAGES – PAGE 16

| | <u>Physiological Critical** Transfer Patients</u> |
|--|---|
| Number of Patients | 64 |
| EMS Notified to Scene | 8 minutes |
| EMS Scene Arrival to Departure | 14 minutes |
| EMS Scene Departure to Initial Hospital ED Arrival | 16 minutes |
| Initial Hospital ED Arrival to Departure | 2 hours 35 minutes |
| Initial Hospital ED Departure to Final Hospital ED Arrival | 56 minutes |
| TOTAL TIME | 4 hours 6 minutes |

Physiological Critical Patient defined as:

- GCS \leq 12
- OR
- Shock Index $>$ 0.9



TRANSFER PATIENT DATA – PAGE 17

Statewide Quarter 4 Data Report

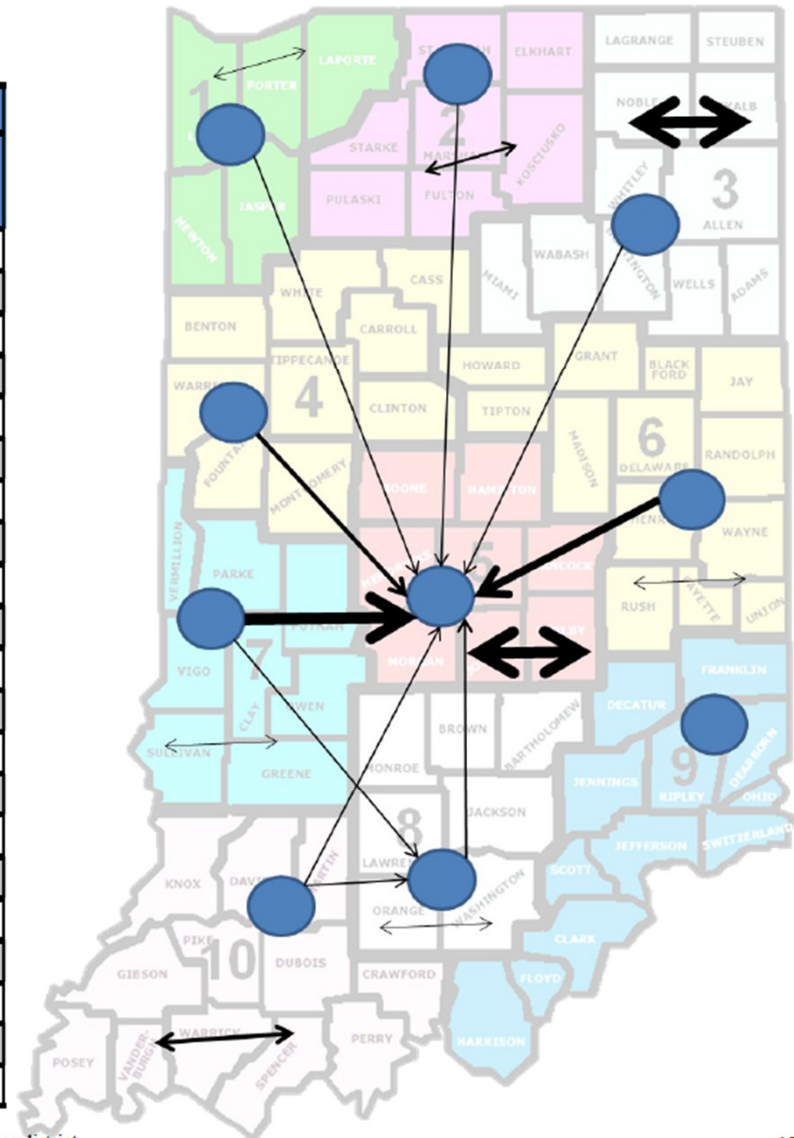
October 1, 2013 to December 31, 2013

5,839 Incidents-337 Linked Transfer Cases

For Transfer Patients:

| Public Health Preparedness District Initial Hospital | Public Health Preparedness District Final Hospital | Incident Counts |
|--|--|-----------------|
| 1 | 1 | 5 |
| 1 | 2 | 2 |
| 1 | 5 | 1 |
| 2 | 2 | 12 |
| 2 | 3 | 6 |
| 2 | 5 | 3 |
| 3 | 3 | 50 |
| 3 | 5 | 3 |
| 4 | 5 | 21 |
| 5 | 5 | 58 |
| 6 | 3 | 13 |
| 6 | 5 | 45 |
| 6 | 6 | 1 |
| 7 | 5 | 72 |
| 7 | 7 | 3 |
| 7 | 8 | 1 |
| 8 | 5 | 17 |
| 8 | 8 | 7 |
| 10 | 5 | 6 |
| 10 | 8 | 1 |
| 10 | 10 | 10 |

Public Health Preparedness Districts



*The thickness of the line indicates the frequency of transfers out of that public health preparedness district
The circles represent transfers from a specific Public Health Preparedness District, not of a specific hospital or county.

TRANSFER PATIENT DATA – PAGE 18

For Linked Transfer Patients:

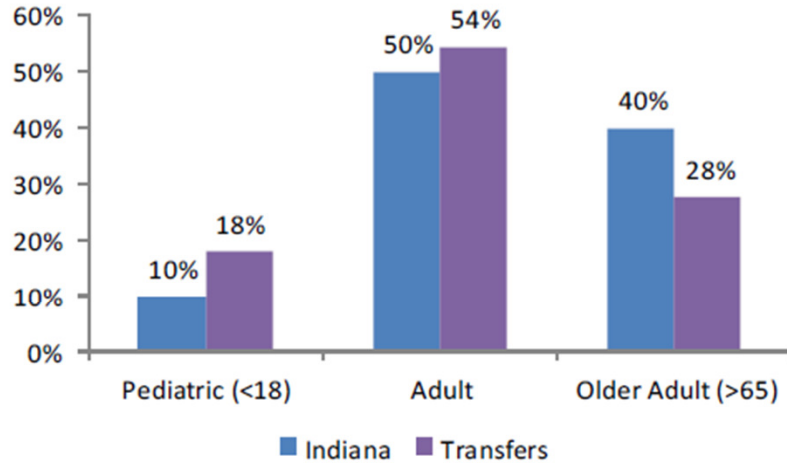
| For All Transfer Patients: | | | |
|---|-----------------------|---------------------------------------|--|
| | All Transfer Patients | <u>Critical*</u> Transfer Patients | <u>Physiological Critical**</u> Transfer Patients |
| Number of Patients | 337 | 101 | 64 |
| Total Time | 4 hours 52 minutes | 4 hours 25 minutes | 4 hours 6 minutes |
| Total Mileage | 59.67 | 74 | 72 |
| Injury Scene to Initial Hospital Mileage*** | 9.98 | 15 | 14 |
| Initial Hospital to Final Facility Mileage | 49.69 | 59 | 58 |

Estimated Average Distance (miles) by Region (region of final hospital):

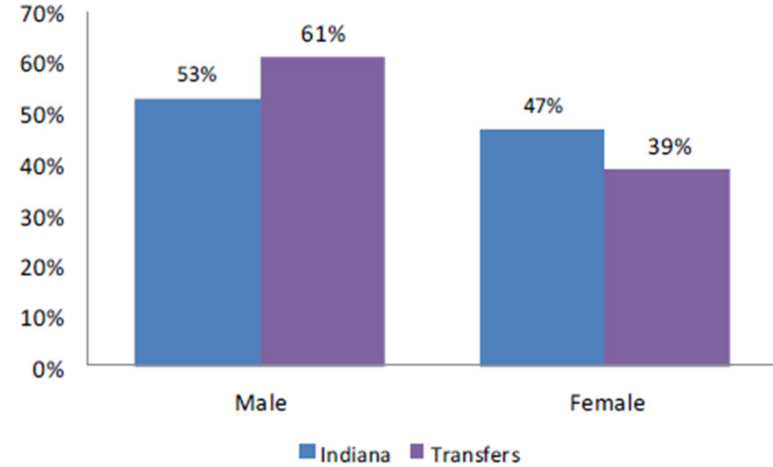
| Region | Injury Scene to Initial Facility Mileage* | Initial Facility to Final Facility Mileage | Total Mileage | Drive Count | Air Count |
|-----------------|---|--|---------------|-------------|-----------|
| Indiana Average | 9.98 | 49.69** | 59.67 | 273 | 57 |
| North Region | 6.27 | 32.61 | 38.88 | 79 | 6 |
| Central Region | 10.51 | 54.60 | 65.11 | 176 | 50 |
| South Region | 20.34 | 46.44 | 66.78 | 18 | 1 |

TRANSFER PATIENT POPULATION – PAGE 14

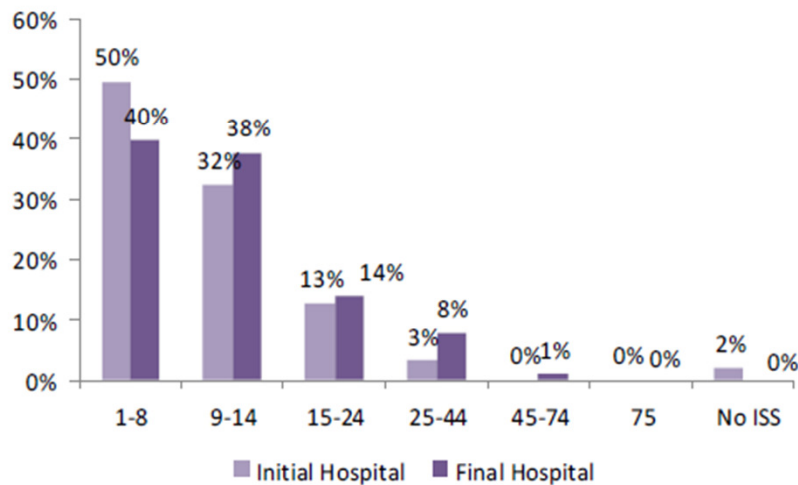
Patient Age Groupings



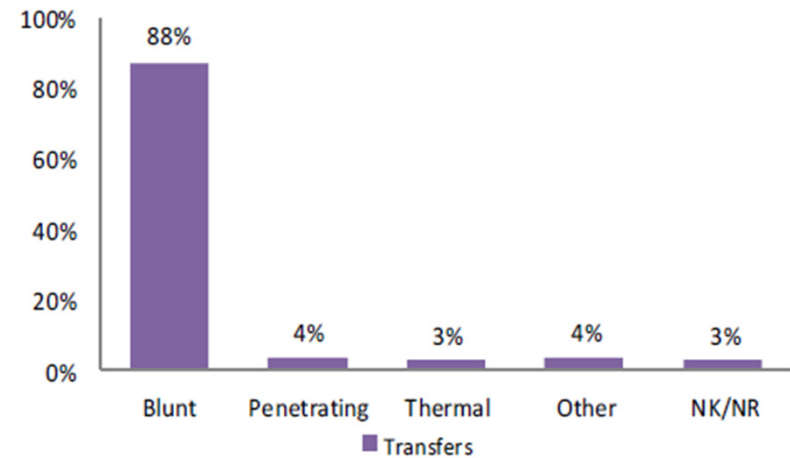
Patient Gender



Injury Severity Score (ISS)

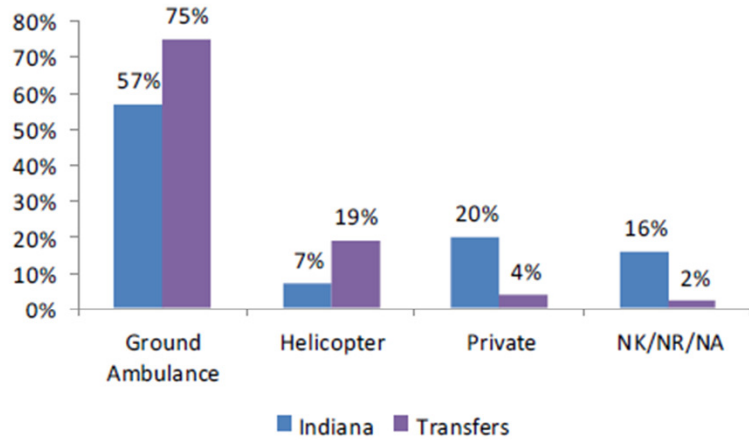


Trauma Type- Final Hospital



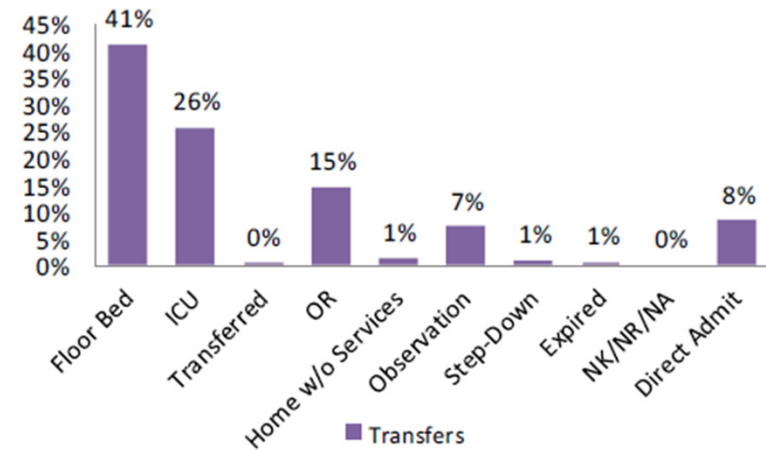
TRANSFER PATIENT POPULATION – PAGE 15

Transport Mode– Final Hospital



<1% Transport Mode: Police, Other * Indicates Private/ Public Vehicle, Walk-in

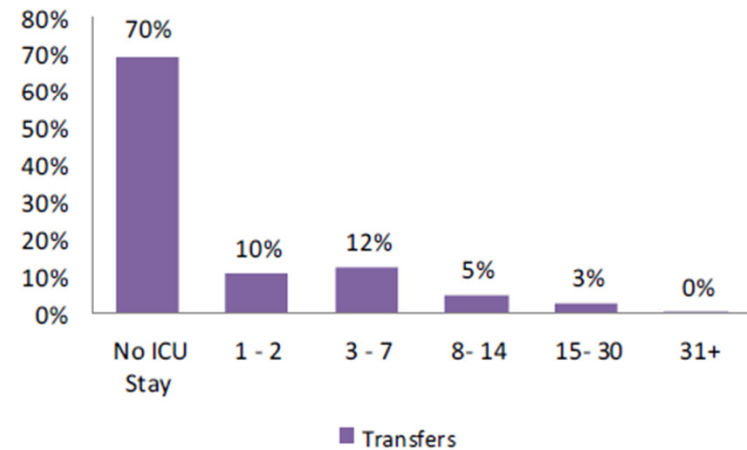
ED Disposition by Percentage- Final Hospital



ED Length of Stay (hours)- Final Hospital

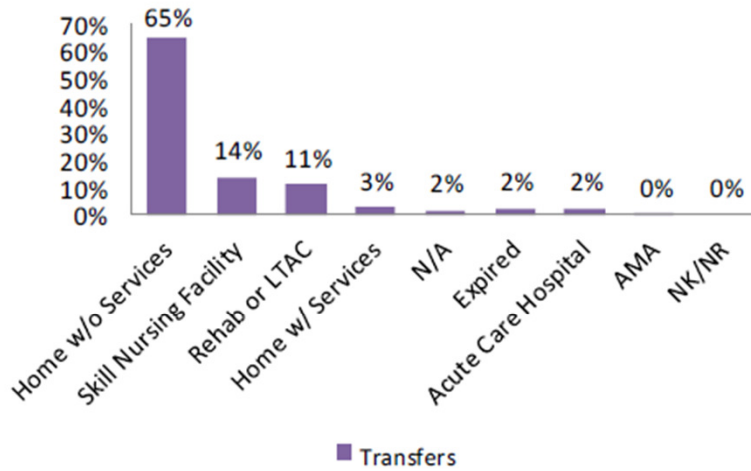


ICU Length of Stay (days)- Final Hospital

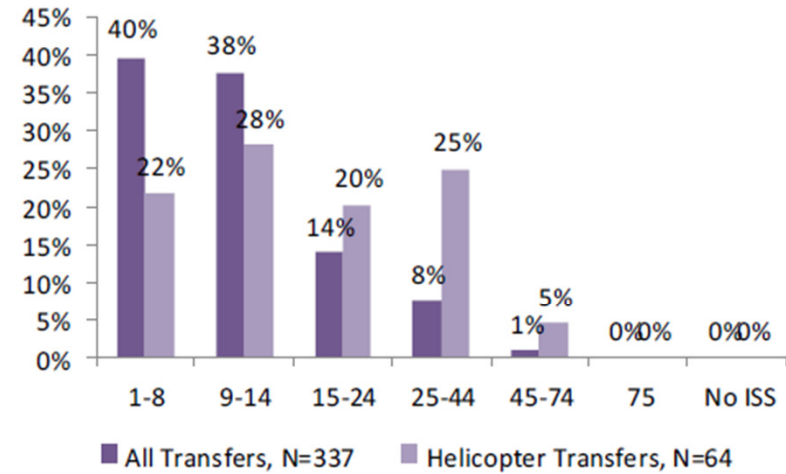


TRANSFER PATIENT POPULATION – PAGE 16

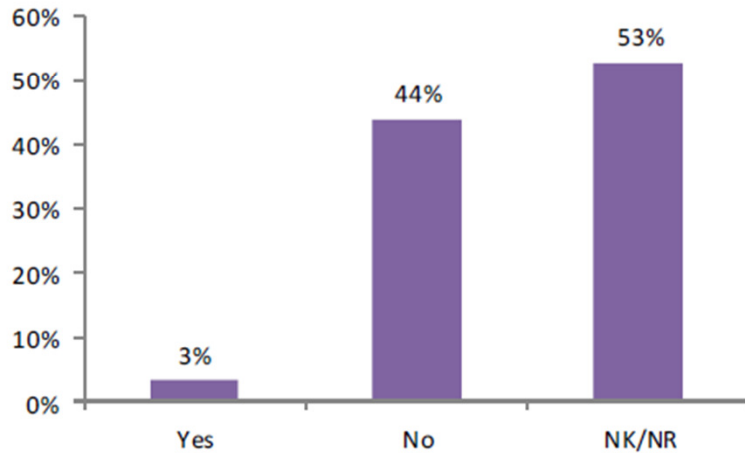
Discharge Disposition– Final Hospital



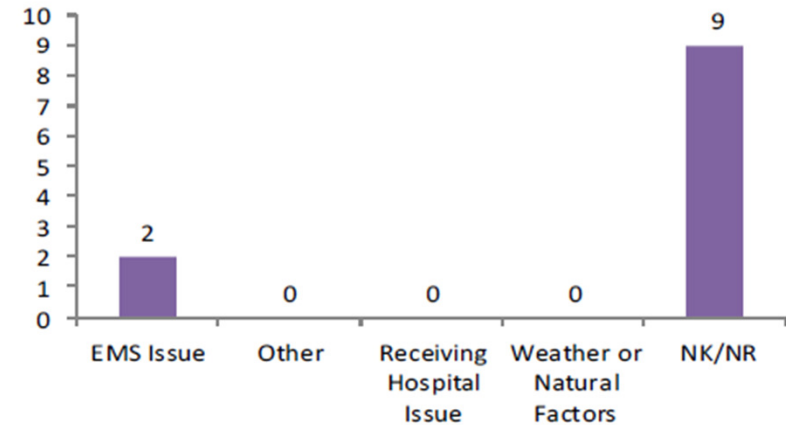
Helicopter Transfers by ISS



Transfer Delay Indicated- Initial Hospital



Initial Facility Transfer Delay Reason- Initial Hospital



TRAUMA CARE COMMITTEE REQUESTS – PAGE 24

Indiana State Department of Health Indiana Trauma Registry

Hospitals Reporting Trauma Data
Quarter 4, 2013

Trauma Centers

Deaconess Hospital
Eskenazi Health
IU Health - Methodist Hospital
Lutheran Hospital of Indiana
Memorial Hospital of South Bend
Parkview Regional Medical Center
Riley Hospital for Children at IU Health
St. Mary's Medical Center of Evansville
St. Vincent Indianapolis Hospital

"In the Process" Hospital*

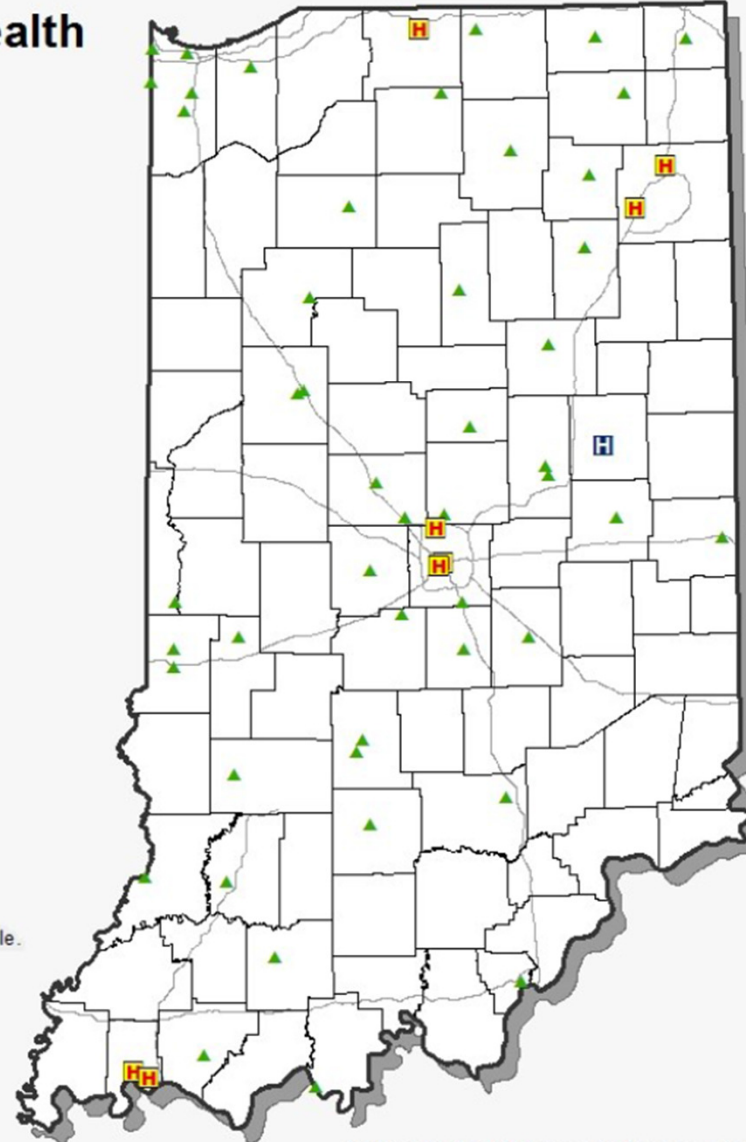
IU Health - Ball Memorial Hospital

Non-Trauma Hospitals

50 Non-Trauma Hospitals

Quarter 4 2013:
October 1- December 31, 2013

* Considered a trauma center for purposes of the triage and transport rule.



Map Author: ISDH ERC PHG and ISDH Trauma & Injury Prevention - May, 2014

QUESTIONS?



LINKED DATA BETWEEN TRAUMA & EMS

- 1,192 probabilistically linked cases for Q4 2013 between the EMS Registry and Trauma Registry!!!



WHAT TO DO NOW?

| Total GCS 1-10 | | | Total GCS 11+ | | |
|------------------------------|-----------|---------|------------------------------|-----------|---------|
| Medication Given by EMS | Frequency | Percent | Medication Given by EMS | Frequency | Percent |
| Albuterol Sulfate | 0 | 0.0% | Albuterol Sulfate | 1 | 0.2% |
| Amiodorone (Cordarone) | 0 | 0.0% | Amiodorone (Cordarone) | 1 | 0.2% |
| Amyl Nitrate | 0 | 0.0% | Amyl Nitrate | 1 | 0.2% |
| Aspirin (ASA) | 0 | 0.0% | Aspirin (ASA) | 6 | 1.1% |
| Dextrose 10% (D10) | 0 | 0.0% | Dextrose 10% (D10) | 1 | 0.2% |
| Dextrose 50% (D50) | 0 | 0.0% | Dextrose 50% (D50) | 1 | 0.2% |
| Diphenhydramine (Benadryl) | 0 | 0.0% | Diphenhydramine (Benadryl) | 1 | 0.2% |
| Dopamine | 1 | 1.9% | Dopamine | 2 | 0.4% |
| Epinephrine 1:10,000 | 2 | 3.7% | Epinephrine 1:10,000 | 1 | 0.2% |
| Etomidate | 0 | 0.0% | Etomidate | 1 | 0.2% |
| Fentanyl | 1 | 2.0% | Fentanyl | 11 | 2.0% |
| Furosemide (Lasix) | 0 | 0.0% | Furosemide (Lasix) | 1 | 0.2% |
| Glucagon | 0 | 0.0% | Glucagon | 1 | 0.2% |
| Glucose (Oral) | 0 | 0.0% | Glucose (Oral) | 2 | 0.4% |
| Heparin | 0 | 0.0% | Heparin | 1 | 0.2% |
| Lactated Ringers | 0 | 0.0% | Lactated Ringers | 1 | 0.2% |
| Hydromorphone (Dilaudid) | 0 | 0.0% | Hydromorphone (Dilaudid) | 10 | 1.8% |
| Lorazepam (Ativan) | 0 | 0.0% | Lorazepam (Ativan) | 1 | 0.2% |
| Morphine Sulfate | 0 | 0.0% | Morphine Sulfate | 5 | 0.9% |
| Nitroglycerin | 0 | 0.0% | Nitroglycerin | 6 | 1.1% |
| Normal Saline | 0 | 0.0% | Normal Saline | 11 | 2.0% |
| Not Applicable | 28 | 51.9% | Not Applicable | 263 | 46.9% |
| Not Available | 0 | 0.0% | Not Available | 5 | 0.9% |
| Not Known | 13 | 24.1% | Not Known | 130 | 23.2% |
| Ondansetron (Zofran) | 0 | 0.0% | Ondansetron (Zofran) | 19 | 3.4% |
| Oxygen | 7 | 13.0% | Oxygen | 68 | 12.1% |
| Oxygen (non-rebreather mask) | 0 | 0.0% | Oxygen (non-rebreather mask) | 1 | 0.2% |
| Oxygen by Blow By | 0 | 0.0% | Oxygen by Blow By | 0 | 0.0% |
| Oxygen by Nasal Cannula | 0 | 0.0% | Oxygen by Nasal Cannula | 8 | 1.4% |
| Terbutaline (Brethine) | 1 | 2.0% | Terbutaline (Brethine) | 0 | 0.0% |
| Thiamine | 1 | 2.0% | Thiamine | 0 | 0.0% |
| Vasopressin | 0 | 0.0% | Vasopressin | 1 | 0.2% |
| | 54 | 100% | | 561 | 100% |



ISDH EMS REGISTRY DATA

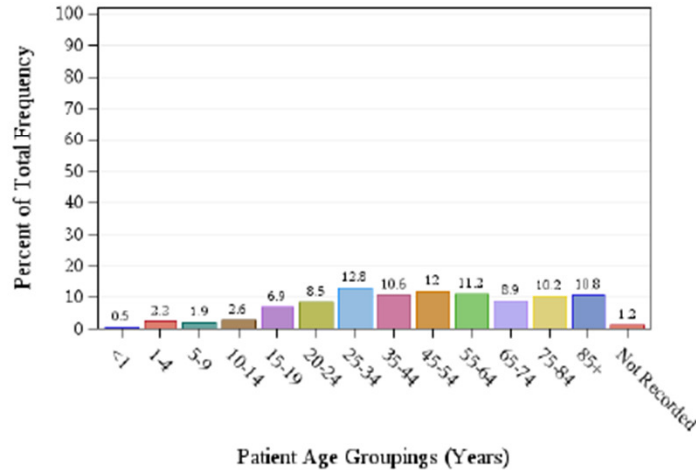
- 28,308 traumatic injury incidents
 - Possible Injury indicated
 - Provider Primary Impression
 - Provider Secondary Impression
 - Complaint Reported by Dispatch is trauma injury
- January 1, 2013 to April 30, 2014
- 91 total providers reporting

364,000+ runs in
the ISDH EMS
Registry

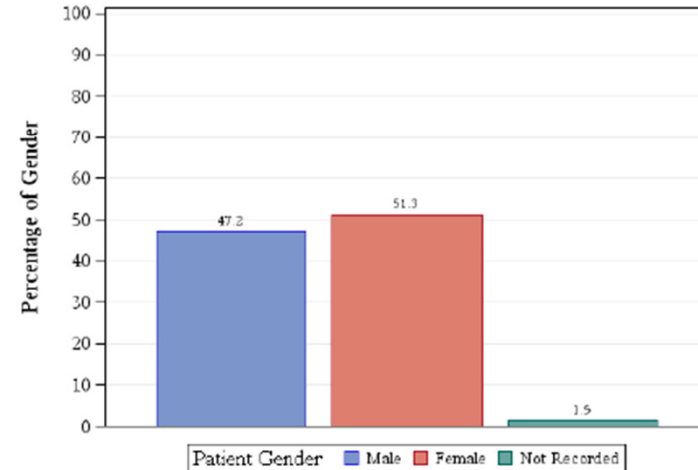


Indiana Trauma Registry- Prehospital Data Report
28,308 Traumatic Injury Incidents*
01/01/2013 - 4/30/2014 91 Total Providers Reporting

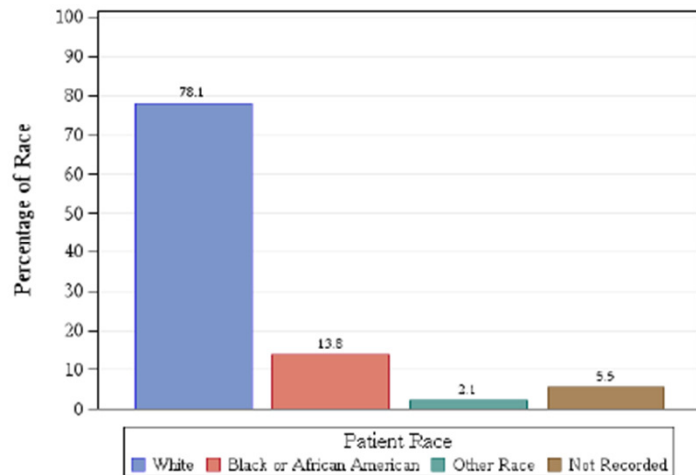
Patient Age Groupings (Years)



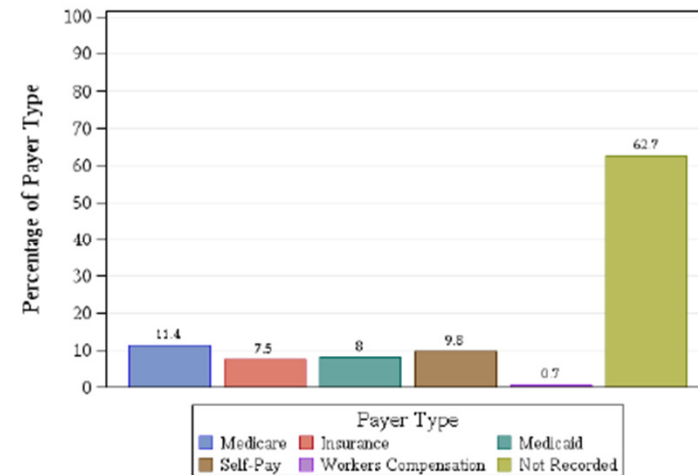
Patient Gender



Patient Race



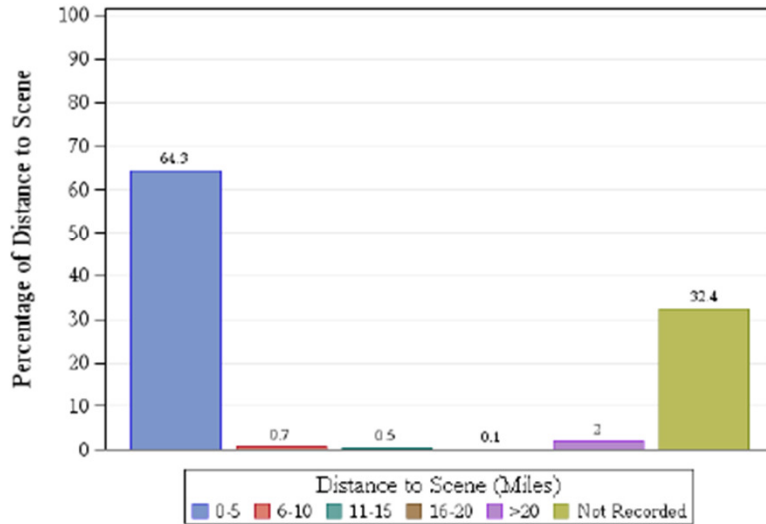
Payer Type



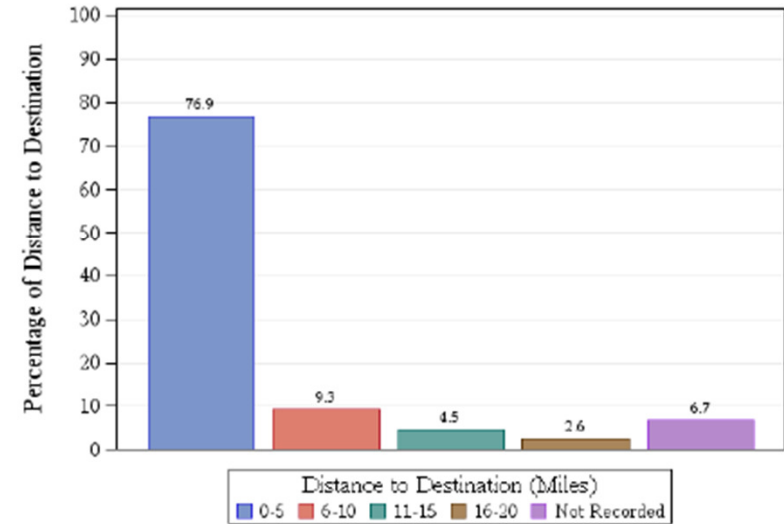
<1% Race: Asian, Native Hawaiian, American Indian/Alaskan Native

*Traumatic Injuries include the following criteria:
 Possible Injury indicated, or Provider Primary or Secondary Impression
 is Traumatic Injury, or Complaint Reported by Dispatch is Traumatic Injury

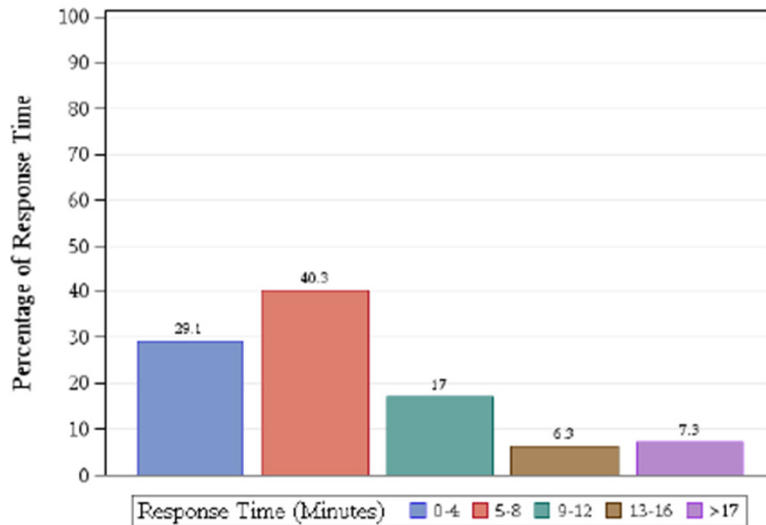
Distance to Scene (Miles)



Distance to Destination (Miles)

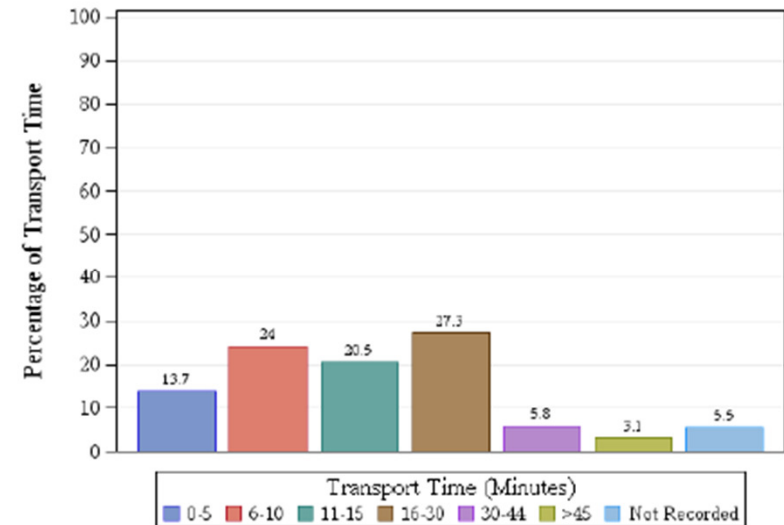


Response Time (Minutes)



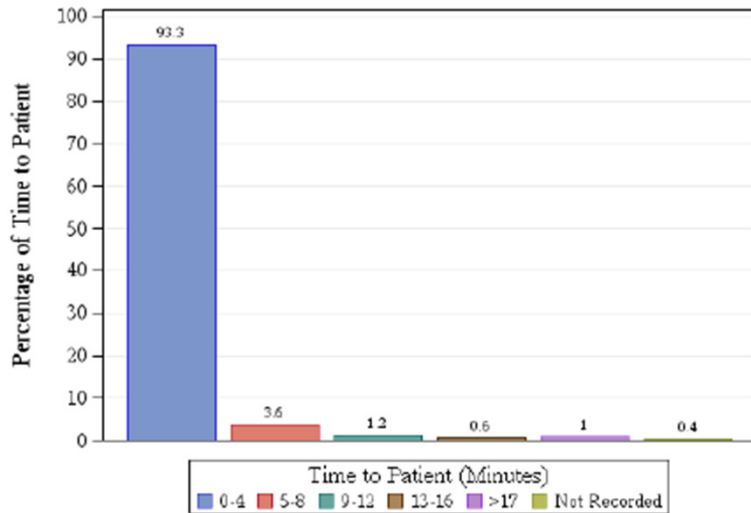
Response Time: Difference in Time from Dispatch to Arrival on Scene

Transport Time (Minutes)



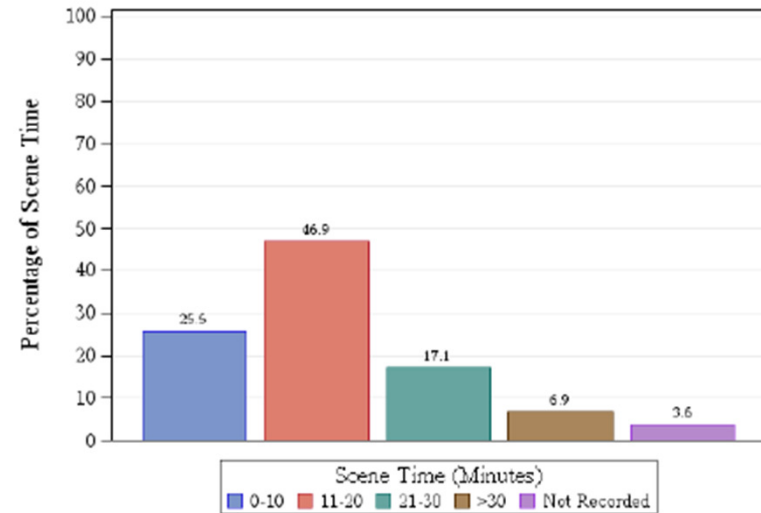
Transport Time: Difference in Time from Departure from Scene to Arrival At Destination

Time to Patient (Minutes)



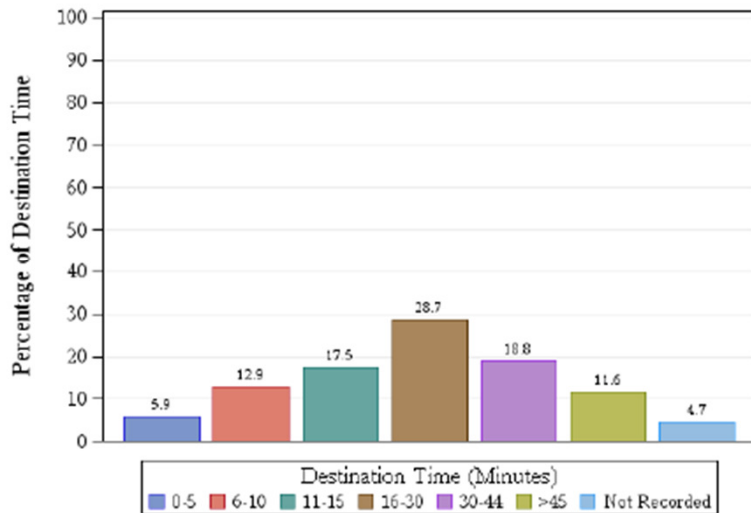
Time To Patient: Difference in Time from Arrival at Scene

Scene Time (Minutes)



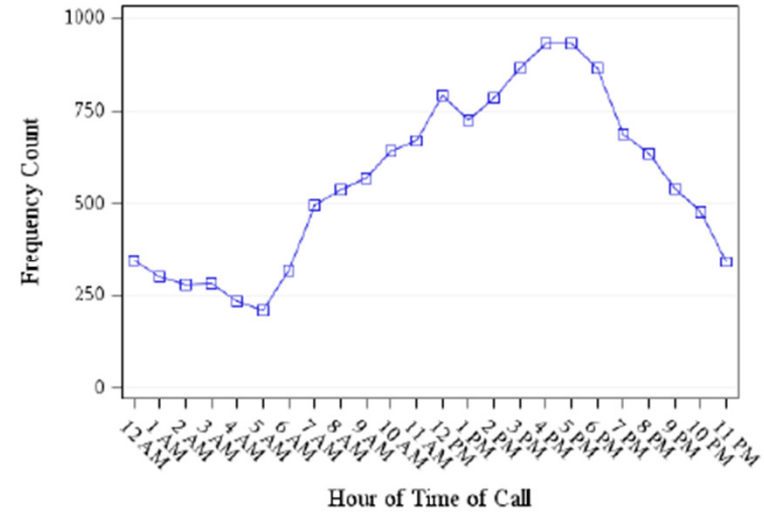
Scene Time: Difference in Time from Arrival at Scene

Destination Time (Minutes)



Scene Time: Difference in Time from Arrival at Destination to Unit Back in Service

Time of Call



Time of Call Not Recorded for 14,894 Incidents

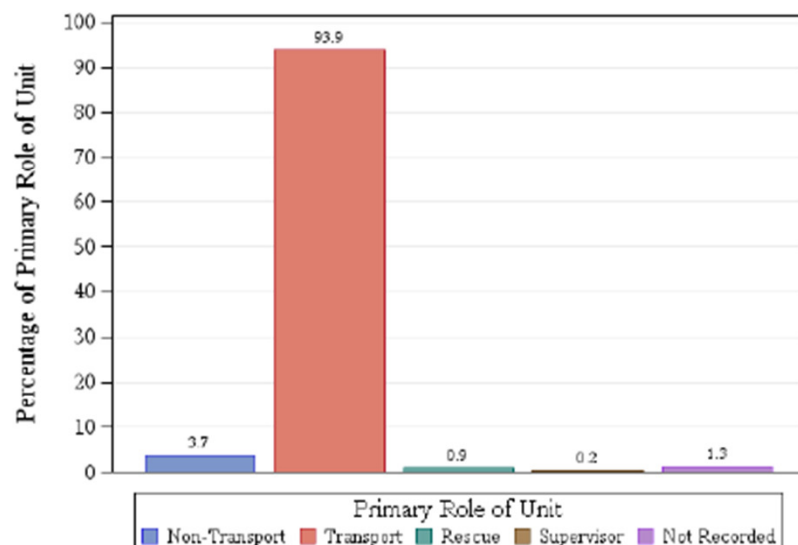
Average Run Mileage

| Obs | Destination | Miles |
|-----|------------------------|-------|
| 1 | Mileage to Scene | 1.4 |
| 2 | Mileage to Destination | 2.8 |
| 3 | Total Mileage | 5.4 |

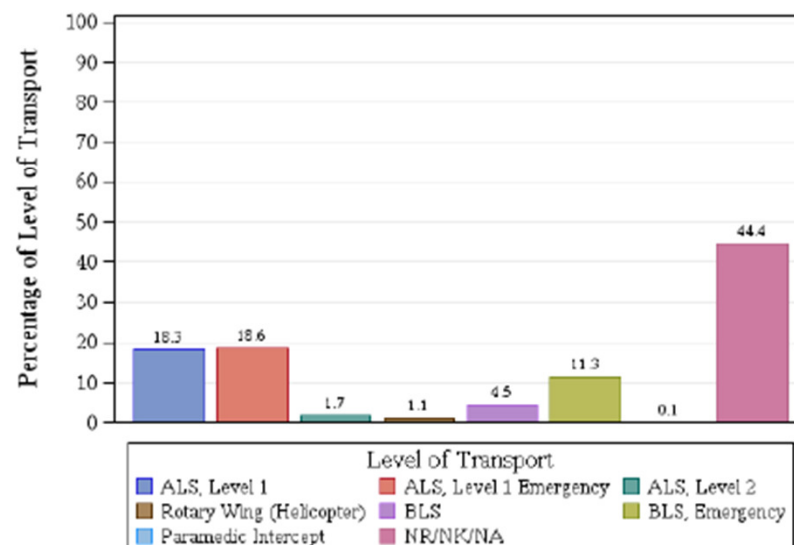
Average Run Time (Minutes)

| Obs | Destination | Minutes |
|-----|---------------------|---------|
| 1 | Time to Scene | 8.19 |
| 2 | Time to Patient | 1.91 |
| 3 | Time at Scene | 16.45 |
| 4 | Time to Destination | 15.67 |
| 5 | Back in Service | 25.21 |
| 6 | Total Run Time | 59.77 |

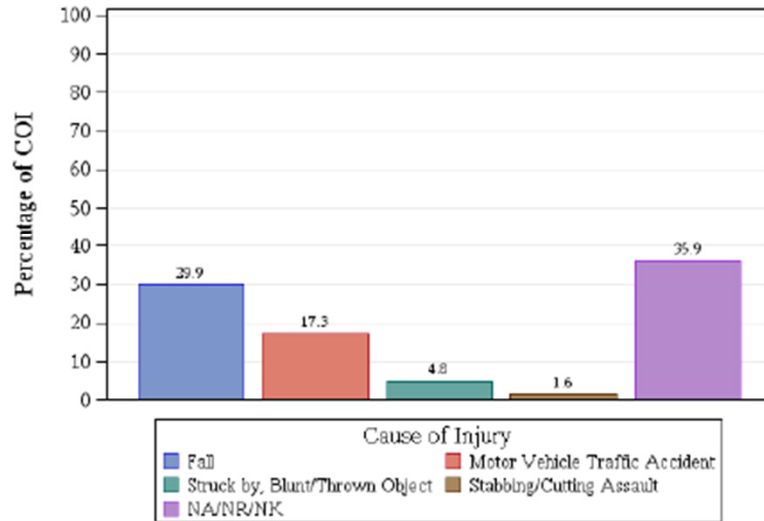
Primary Role of Unit



Level of Transport

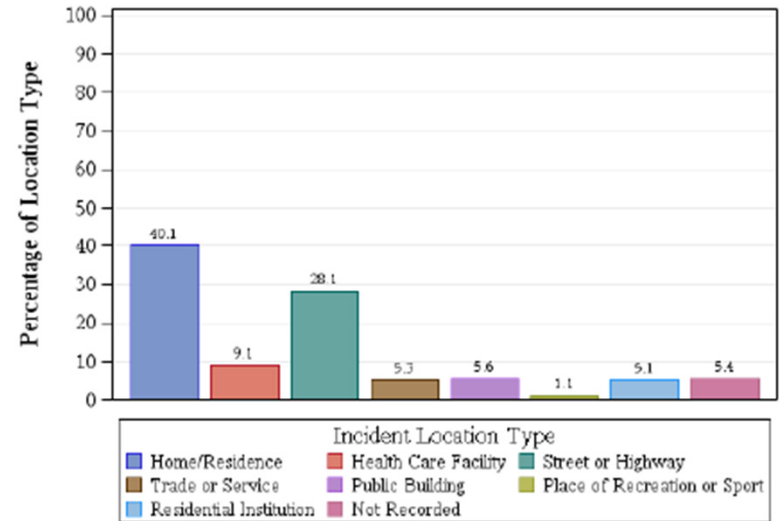


Cause of Injury (COI)



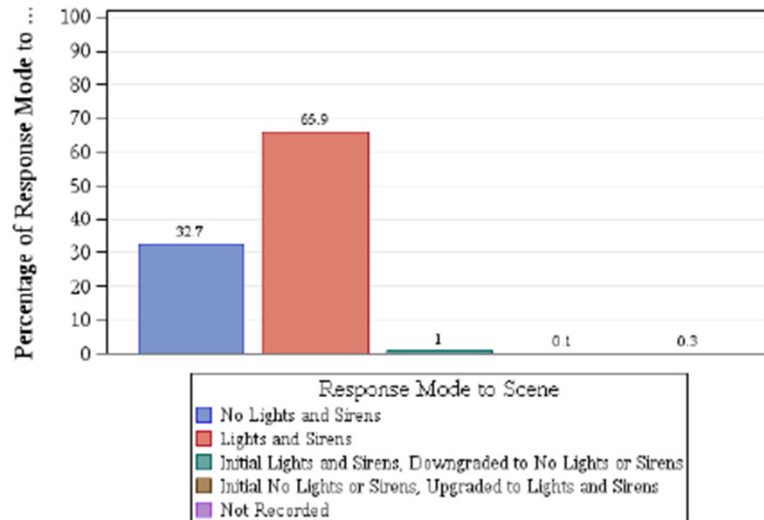
Causes of Injury <1.5% Not Listed

Incident Location Type

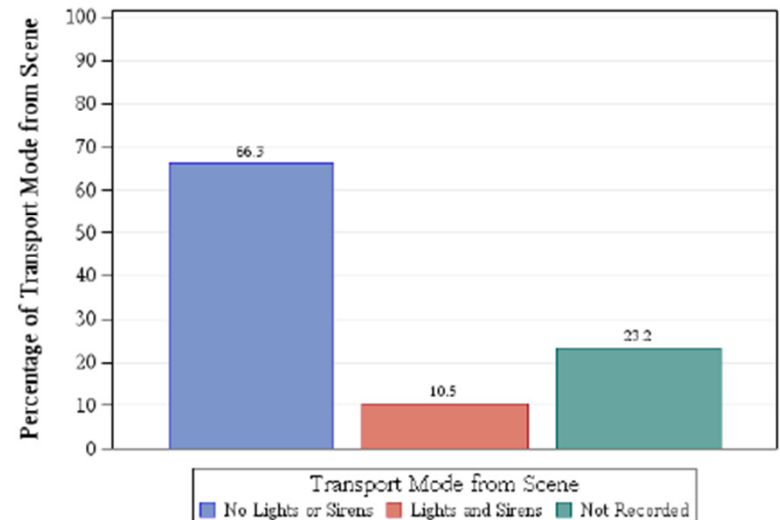


Incident Location Type <1% Not Listed

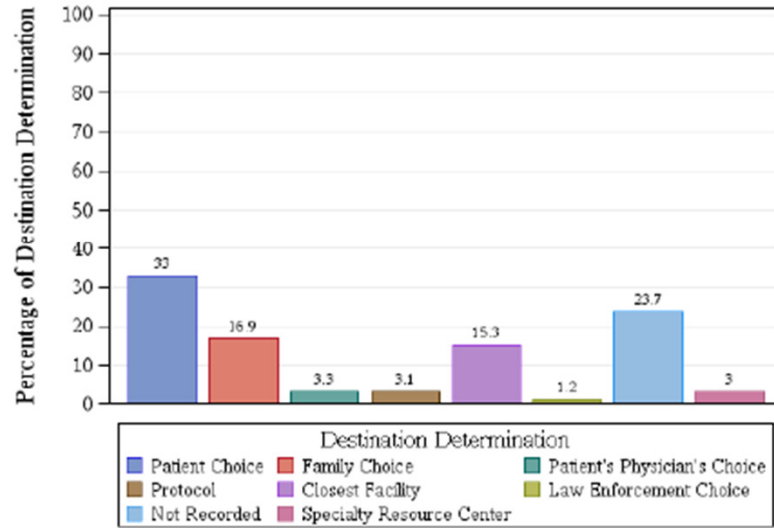
Response Mode to Scene



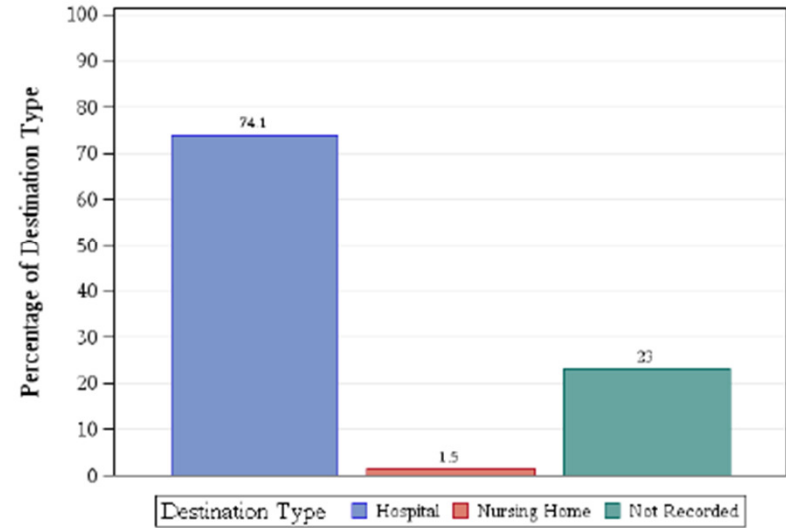
Transport Mode from Scene



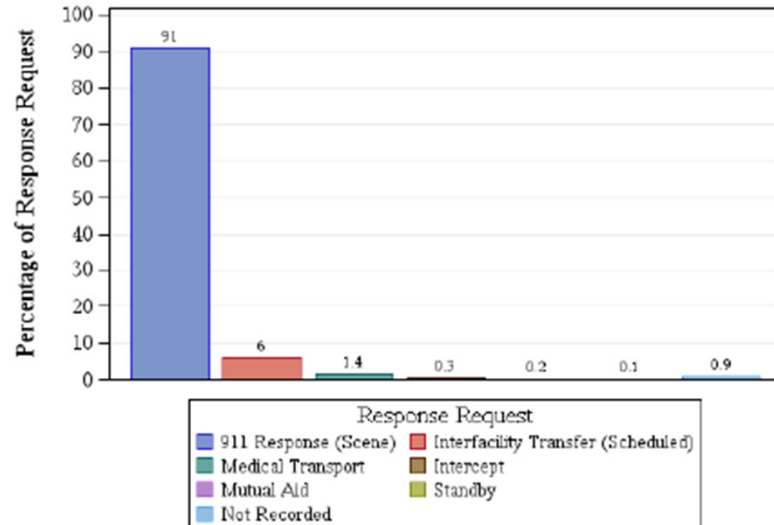
Destination Determination



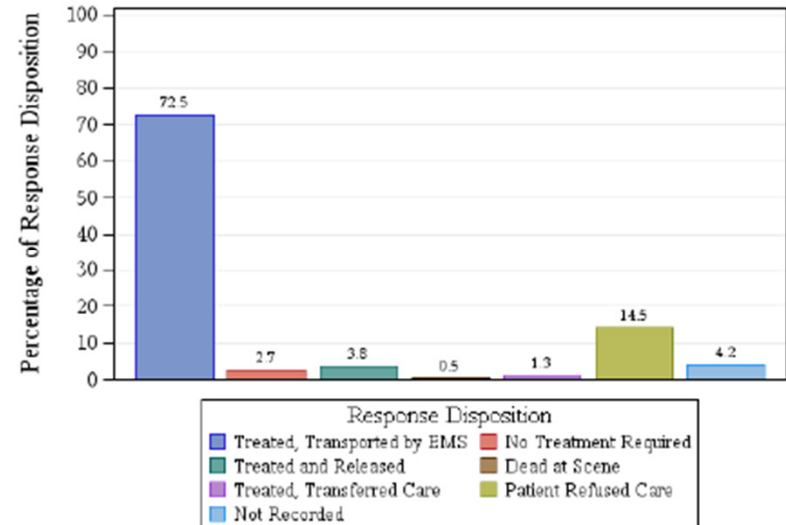
Destination Type



Response Request



Response Disposition



Response Disposition <0.5% Not Listed

QUESTIONS?

