

Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

94 Total Hospitals Reporting

Level I and II:	8 facilities	38.6% of data
Level III:	10 facilities	16.0% of data
(Non-Trauma) Hospitals:	76 facilities	45.4% of data

For Quarter 1 2015, which spanned from January 1, 2015 to March 31, 2015, there were 7,050 incidents reported to the Indiana Trauma Registry at the Indiana State Department of Health. There were 94 hospitals that reported data, of which 8 were level I or II trauma centers and 10 were level III trauma centers. There were 4 hospitals that either started to report again or were new to reporting during this quarter compared to the previous quarter, while 5 hospitals dropped off from reporting this quarter from the previous quarter. A map of the state with the reporting hospitals can be found on page 50. Trauma centers represented 54.6% of the data. There were 2,292 incidents reported for January, 2,205 reported for February, and 2,553 incidents reported for March.

The content of this report has changed due to suggestions and additions requested by the Indiana State Trauma Care Committee at the February 20, 2015 meeting. Explanations of the changes requested and adapted from the ISTCC meeting can be found on page 21.

Some general reminders include that the blue columns represent an Indiana average, red columns represent level I and II trauma centers, green columns represent level III trauma centers and orange non-trauma centers. If a single percent is listed above a group of bars, the percent listed represents the average for Indiana. If a number is listed above a group of bars, it represents the count for Indiana. The category 'All Transfers' denotes the patient group where ED Disposition = Transferred to Another Hospital. **The category 'Linked Transfers' represents the patient group for whom the initial hospital and final hospital information could be linked.**

The E-codes used in this report follow the ICD-9 CDC matrix of external cause of injury.

Definitions:

Direct Admit: Patient is admitted directly to the hospital and does not spend time in Emergency Department. The ED Length of Stay should reflect a direct admittance.

External Cause of Injury: ICD-9-CM codes that are used to describe the mechanism or external factor that caused the injury event.

Trauma Type: The classification of the force applied to the body. Trauma type categories include blunt, penetrating, thermal, and other trauma.

Injury Severity Score: An anatomical scoring system defined as the sum of the three highest squared maximum Abbreviated Injury Scale (AIS) values to account for multiple injuries in the six body regions.

Acronyms:

E-code: External Cause of Injury	MVC: Motor Vehicle Collision
ED: Emergency Department	OR: Operating Room
ICU: Intensive Care Unit	Ps: Probability of Survival
ISS: Injury Severity Score	CAHs: Critical Access Hospital
LOS: Length of Stay	

Calculations:

$P_s = 1/(1+e^{-b})$ where $b=b_0+b_1(RTS) + b_2(ISS) + b_3(\text{Age Index})$

Total GCS = Verbal GCS + Motor GCS + Eye GCS

$RTS = 0.94 * GCS + 0.73 * SBP + 0.29 * RR$

$ISS = (AIS)^2 + (AIS)^2 + (AIS)^2$



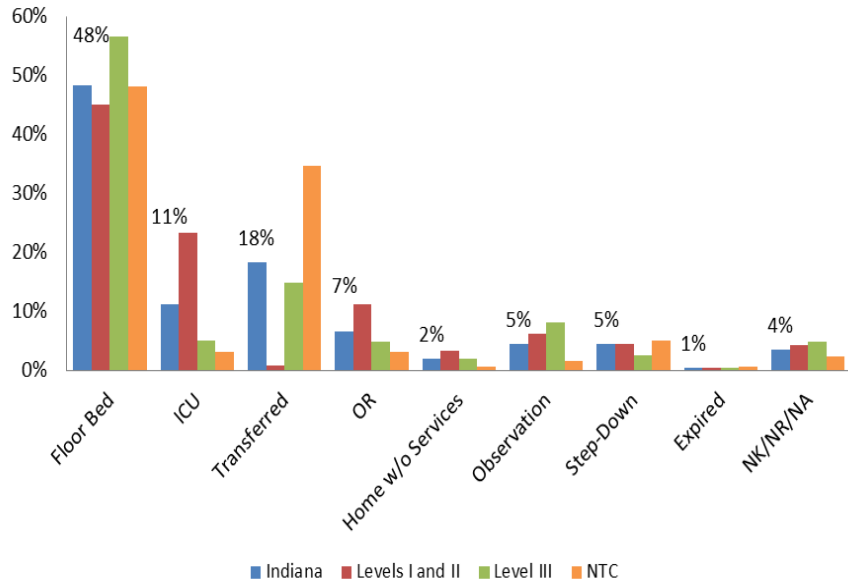
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Indiana Trauma Registry

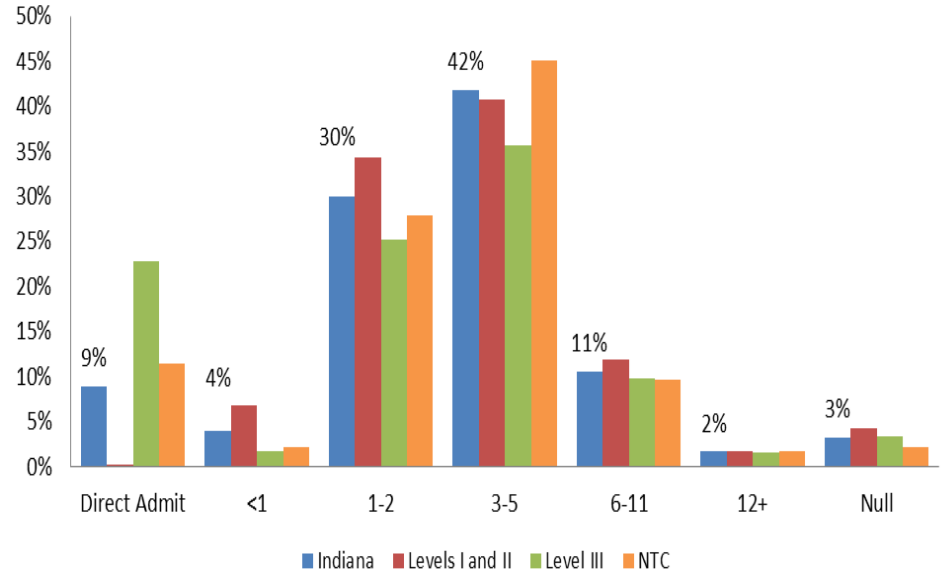
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ED Disposition by Percentage



ED Length of Stay (Hours)



Indiana Trauma Registry

Statewide Quarter 1 Data Report

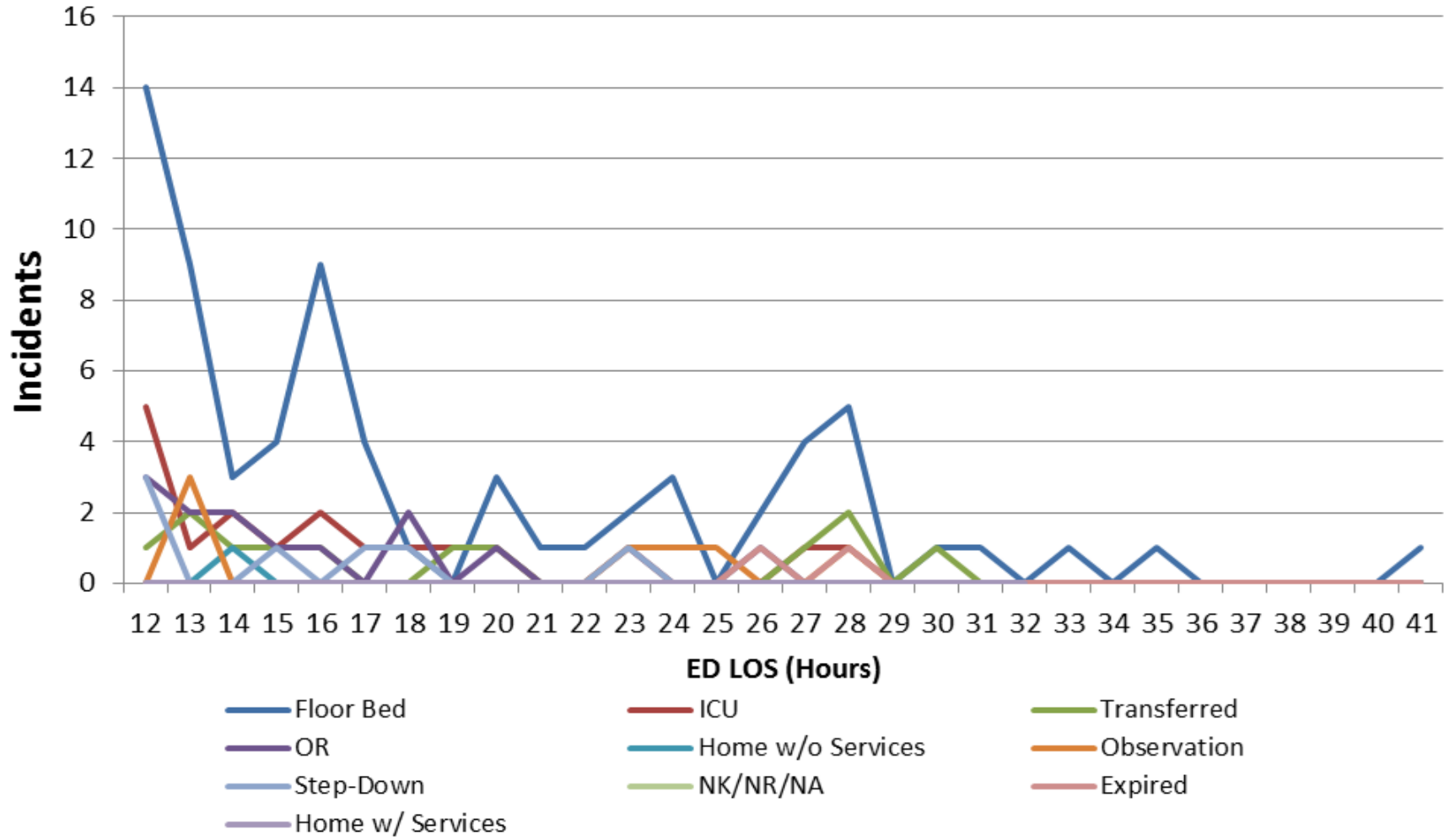
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ED Disposition for ED LOS >12 Hours



N=130

*Two cases expired: one at 26 hours and the other at 28 hours

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ED LOS > 12 Hours, N=91

Facilities	42 Level I and II 15 Level III 34 Non-trauma Centers	ISS	52 (1-8 cat); 26 (9-15 cat); 8(16-24); 2 (25-44); 3 (No ISS)
Average Distance from Scene to Facility	7.1 Miles	RTS—Systolic	4 (3-4)
Transport Type	73 Ambulance; 1 Helicopter, 16 Private Vehicle/Walk-In; 1 NK/NR	RTS—GCS Scale	3.9 (1-4)
Trauma Type	85 Blunt; 6 Penetrating	RTS—Resp. Scale	3 (3-4)
Cause of Injury	58 Fall; 14 MVC; 6 Struck by, Against; 5 Firearm; 7 Transport; 1 Cut/Pierce	RTS	7.5 (4.7-7.8)
Signs of Life	85 Yes; 1 No; 5 NA	B Value	3.89 (0.0-5.7)
Age	57.4 Years (0.1-97 Years)	Ps	0.97 (0.37-0.997)
Gender	49 Female; 42 Male;	Resp. Assistance	12 Yes; 79 No
Interfacility Transfer	9 Yes; 82 No	ED LOS	17.9 (12-40.7)
Region	20 North; 49 Central; 10 South; 2 Missing	ED Disposition	47 Floor bed; 1 Home w/o services; 13 ICU; 7 Observation; 8 OR; 1 Other; 7 Step-down; 7 Transferred

-Region was created from injury zip code. Missing = no injury zip or injury zip from out of state.

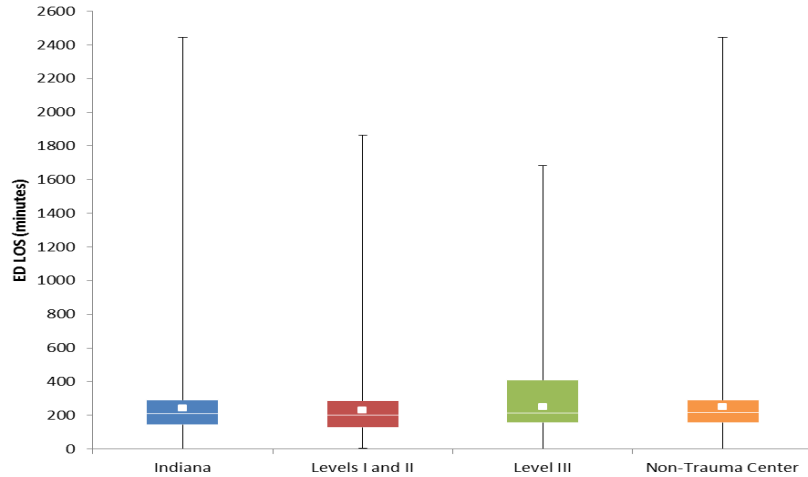
-Numbers represent counts per category or mean with minimum and maximum in parentheses.

Indiana Trauma Registry

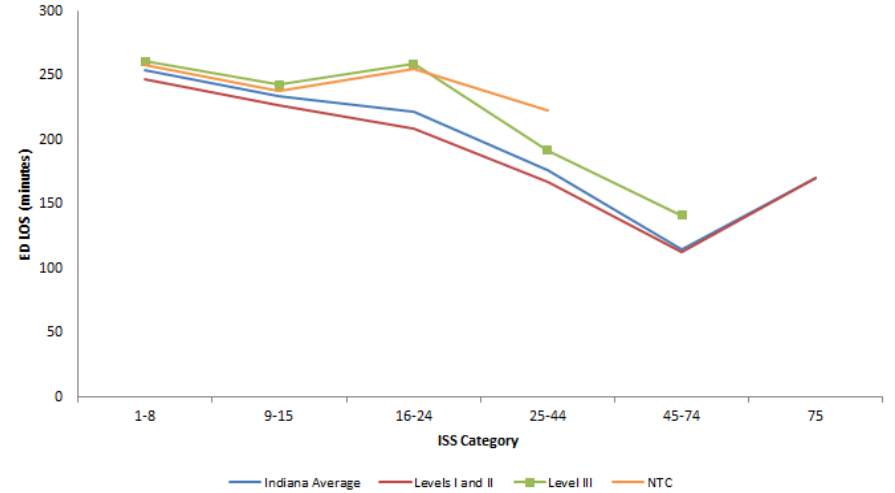
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ED LOS (Minutes) - All Patients



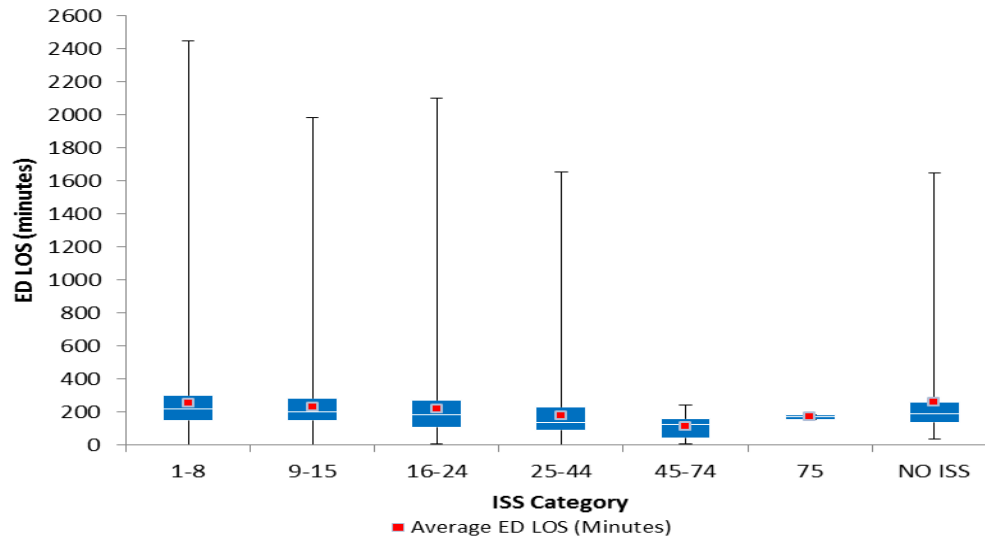
ED LOS (Minutes) by ISS



A table with all the values for ED LOS is found on page 47.

ED LOS (Minutes) by ISS

Note for EDLOS by ISS, there were 2 cases with ISS of 75; neither were at non-trauma centers.



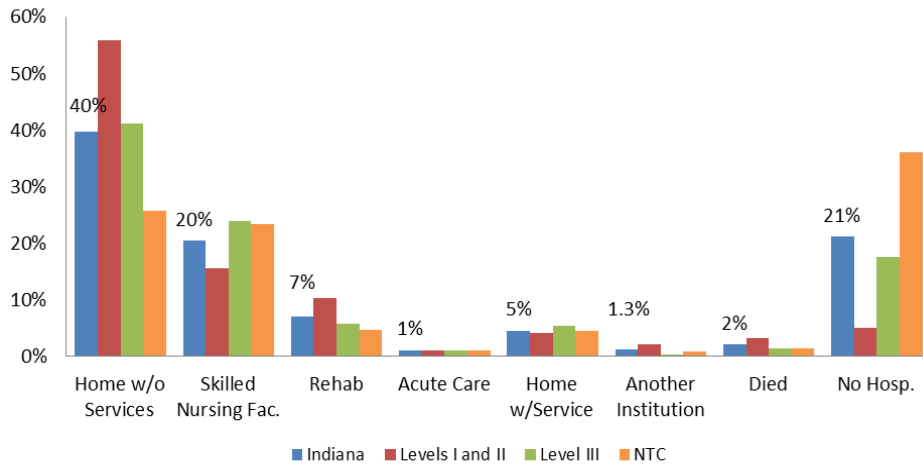
A table with values for ED LOS by ISS may be found on page 48.

Indiana Trauma Registry

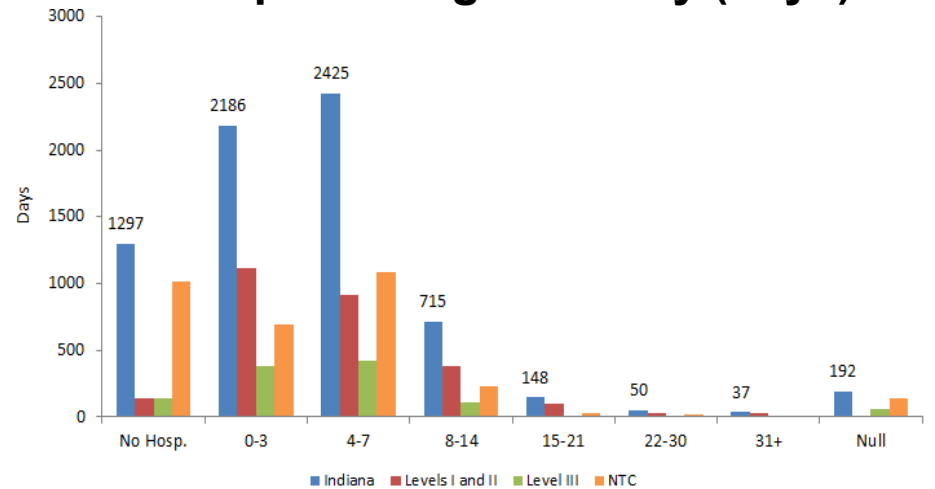
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Hospital Disposition



Hospital Length of Stay (days)



*There are new categories for the Hospital Disposition for the 2014 Data Dictionary <1%: null, psych., long term care hospital, AMA, hospice and intermediate care.

Indiana Trauma Registry

Statewide Quarter 1 Data Report

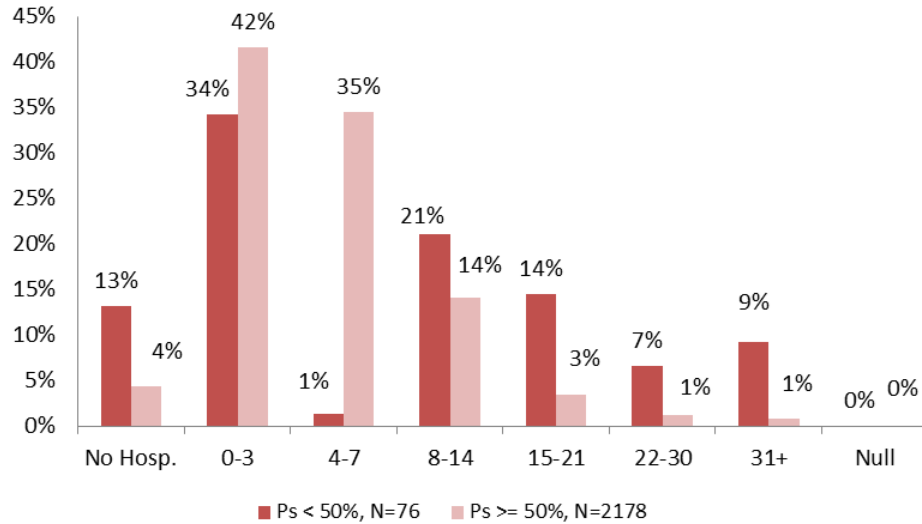
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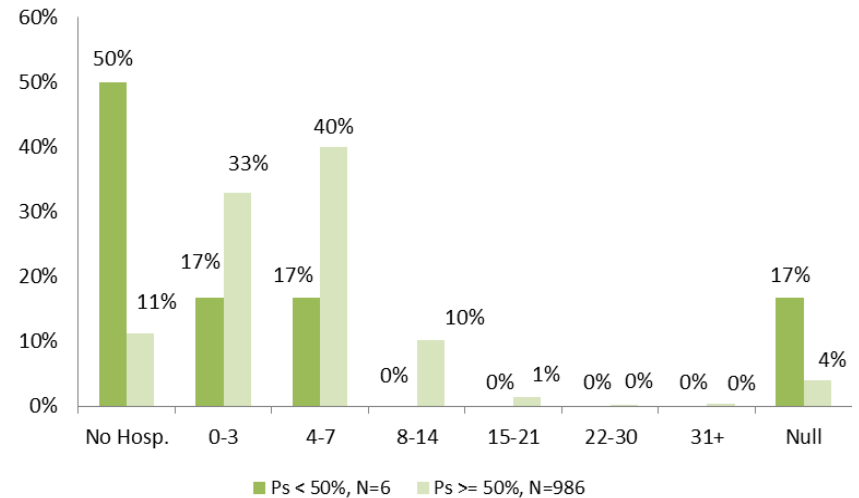
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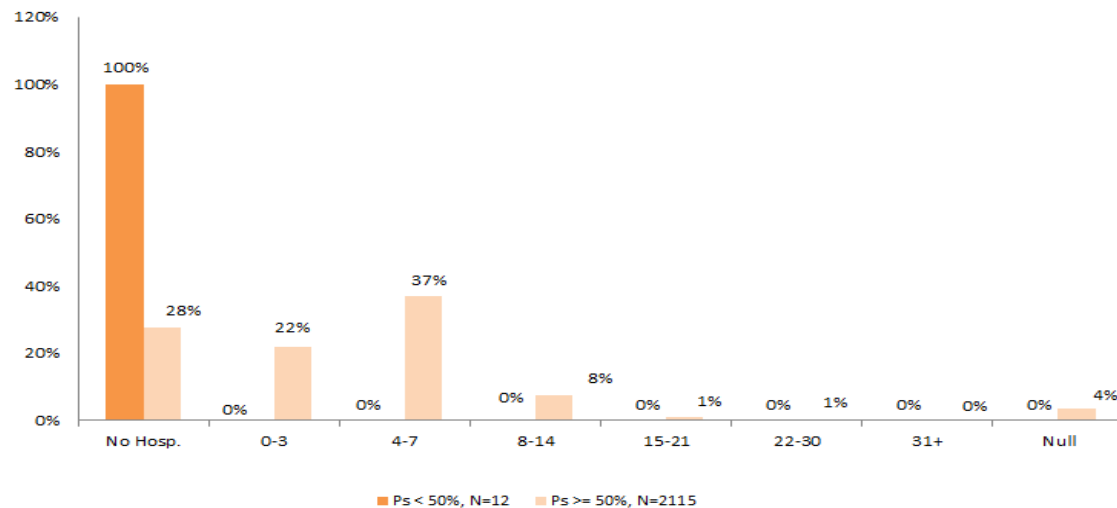
Hospital LOS (days) by Ps Levels I and II



Hospital LOS (days) by Ps Level III



Hospital LOS (days) by Ps Non-Trauma Centers



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ED Disposition of Expired for Ps ≥ 50%, N=5

Facilities	3 Non-Trauma Centers 2 Trauma Centers	ISS	2 (1-8 cat.); 3 (9-15 cat.)
Average Distance from Scene to Facility*	22.5 Miles	RTS—Systolic	3.20 (1-4)
Transport Type	4 Ground ambulance; 1 Helicopter;	RTS—GCS Scale	1.8 (0-4)
Trauma Type	5 Blunt	RTS—Resp. Scale	2.4 (0-3)
Cause of Injury	2 Falls; 3 MVC	RTS	4.6 (1.6-7.6)
Signs of Life	3 Yes; 2 Missing	B Value	1.9 (0.1-3.3)
Age	53.4 Years (15-91 Years)	Ps	0.8 (0.5-0.96)
Gender	1 Female; 4 Male	Resp. Assistance	3 Yes; 2 No
Interfacility Transfer	1 Yes; 4 No	ED LOS	2.7 hours (0.12-5.62 hours)
Region	1 North; 1 South; 3 Missing		

-Region was created from injury zip code. Missing = no injury zip or injury zip from out of state.

-Numbers represent counts per category or mean with minimum and maximum in parentheses.

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ED Dispo ≠ Expired, Hospital Dispo = Expired for Ps ≥ 50%, N=69, Trauma Centers

Interfacility Transfer	23 Yes	Interfacility Transfer	46 No
Average Distance from Scene to Facility	20.2 Miles	Average Distance from Scene to Facility	8.5 Miles
Transport Type	15 Ambulance; 7 Helicopter; 1 NK/NR	Transport Type	37 Ambulance; 6 Helicopter; 3 Private Vehicle
Trauma Type	15 Blunt; 2 Penetrating; 4 Burn; 2 Other	Trauma Type	40 Blunt; 2 Penetrating; 4 Other
Cause of Injury	12 Fall; 2 MVC; 2 Firearm; 4 Fire/Burn; 1 Transport; 2 Not Categorized	Cause of Injury	24 Fall; 14 MVC; 2 Firearm; 1 Transport; 1 Struck By, Against; 4 Not Categorized
Signs of Life	17 Yes; 6 Unknown	Signs of Life	33 Yes; 2 No; 11 Unknown
Age	73.5 Years (22-93 Years)	Age	71 Years (1-98 Years)
Gender	8 Female; 15 Male	Gender	22 Female; 24 Male
Region	2 North; 11 Central; 4 South; 6 missing	Region	7 North; 24 Central; 5 South; 10 Missing
ISS	3 (1-8); 7 (9-15); 1 (16-24); 10 (25-44); 1 (45-74); 1 (75)	ISS	5 (1-8); 14 (9-15); 7 (16-24); 19 (25-44); 1 (45-74)
RTS—Systolic	4 (4-4)	RTS—Systolic	4.0 (3-4)
RTS—GCS Scale	2.6 (0-4)	RTS—GCS Scale	3.2 (0-4)
RTS—Resp. Scale	3 (3-3)	RTS—Resp. Scale	3.1 (3-4)
RTS	6.3 (3.8-7.6)	RTS	6.8 (3.8-7.8)
B Value	1.7 (0.05-3.5)	B Value	2.2 (0.2-4.2)
Ps	0.8 (0.5-0.97)	Ps	0.8 (0.6—0.99)
Resp. Assistance	13 Yes; 9 No; 1 NK/NR	Resp. Assistance	16 Yes; 28 No; 2 Unknown
ED LOS	1.8 Hours (0.3-3.9 Hours)	ED LOS	3.7 Hours (0.5-8.1 Hours)

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ED Dispo ≠ Expired, Hospital Dispo = Expired for Ps ≥ 50%, N=36, Non-trauma Centers

Interfacility Transfer	36 No
Average Distance from Scene to Facility	6.0 Miles
Transport Type	32 Ambulance; 1 Private Vehicle; 3 NK
Trauma Type	33 Blunt; 3 Other
Cause of Injury	32 Falls; 1 MVC; 3 Other
Signs of Life	35 Yes; 1 No
Age	79.4 Years (22-97 Years)
Gender	14 Females; 22 Males
Region	18 North; 11 Central; 6 South; 1 Missing
ISS	9 (1-8); 19 (9-15); 5 (16-24); 1 (25-44); 2 Unknown
RTS—Systolic	4.0 (4-4)
RTS—GCS Scale	3.5 (0-4)
RTS—Resp. Scale	3.0 (3-3)
RTS	7.1 (3.8-7.6)
B Value	2.8 (0.3-5.3)
Ps	0.9 (0.6-0.995)
Resp. Assistance	5 Yes; 28 No; 3 Unknown
ED LOS	3.7 Hours (1.9-8.1 Hours)

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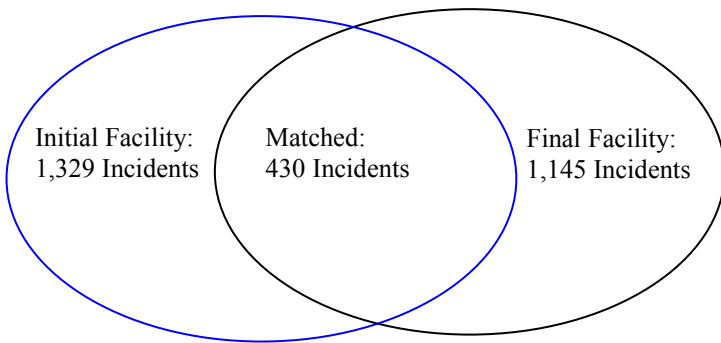
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For Quarter 1, 2015, of the 7,050 incidents reported to the Indiana Trauma Registry, 1,329 cases that had an ED Disposition of “Transferred to another acute care facility” at the initial facility or that had the Inter-Facility Transfer equal to “Yes” at the Trauma Center. Of those transferred, 430 cases were probabilistically matched. The linked cases make up 17% of the Q1 2015 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 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 these facilities reported data for Quarter 1, 2015.

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

Rural Hospitals

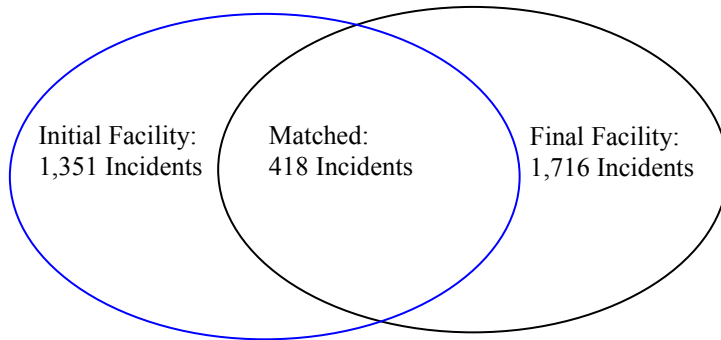
Columbus Regional Hospital	King's Daughters' Health
Daviess Community Hospital	Kosciusko Community Hospital
Doctor's Neuromedical	Marion General Hospital
Fayette Regional Health System	Memorial Hospital
Franciscan St Anthony Health - Michigan City	Memorial Hospital and Health Care Center
Franciscan St Elizabeth Health - Crawfordsville	Parkview Noble Hospital
Good Samaritan Hospital	Reid Hospital & Health Care Services
Henry County Memorial Hospital	Saint Joseph RMC - Plymouth
Indiana University Health La Porte Hospital	Schneck Medical Center
Indiana University Health Starke Hospital	

Indiana Trauma Registry

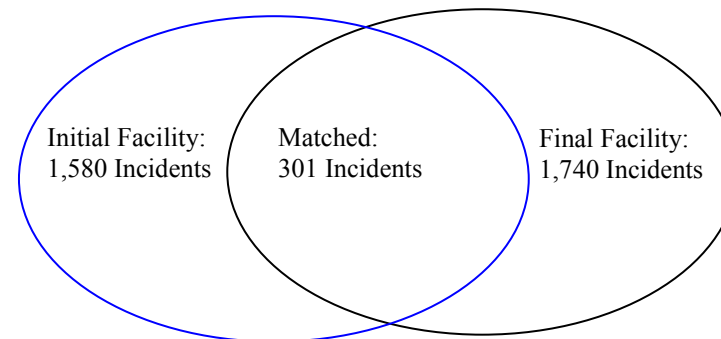
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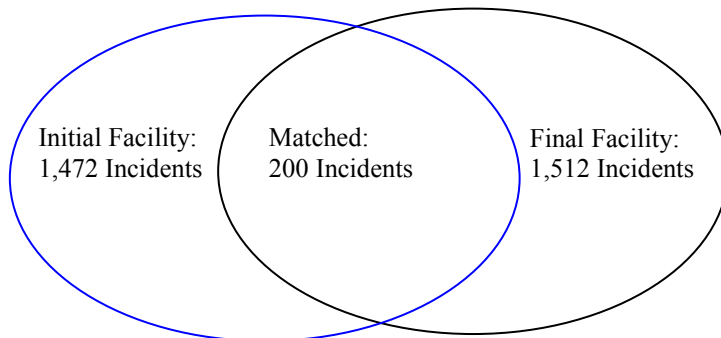
Historical Links



For Quarter 2, 2014, of the 8,272 incidents reported to the Indiana Trauma Registry, 1,716 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, 418 cases were probabilistically matched. The linked cases make up 13.7% of the Q2 2014 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 be matched.



For Quarter 3, 2014, of the 8,814 incidents reported to the Indiana Trauma Registry, 1580 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, 301 cases were probabilistically matched. The linked cases make up 9.1% of the Q3 2014 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 be matched.



For Quarter 4, 2014, of the 8,052 incidents reported to the Indiana Trauma Registry, 1472 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, 200 cases were probabilistically matched. The linked cases make up 96.7% of the Q4 2014 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 be matched.

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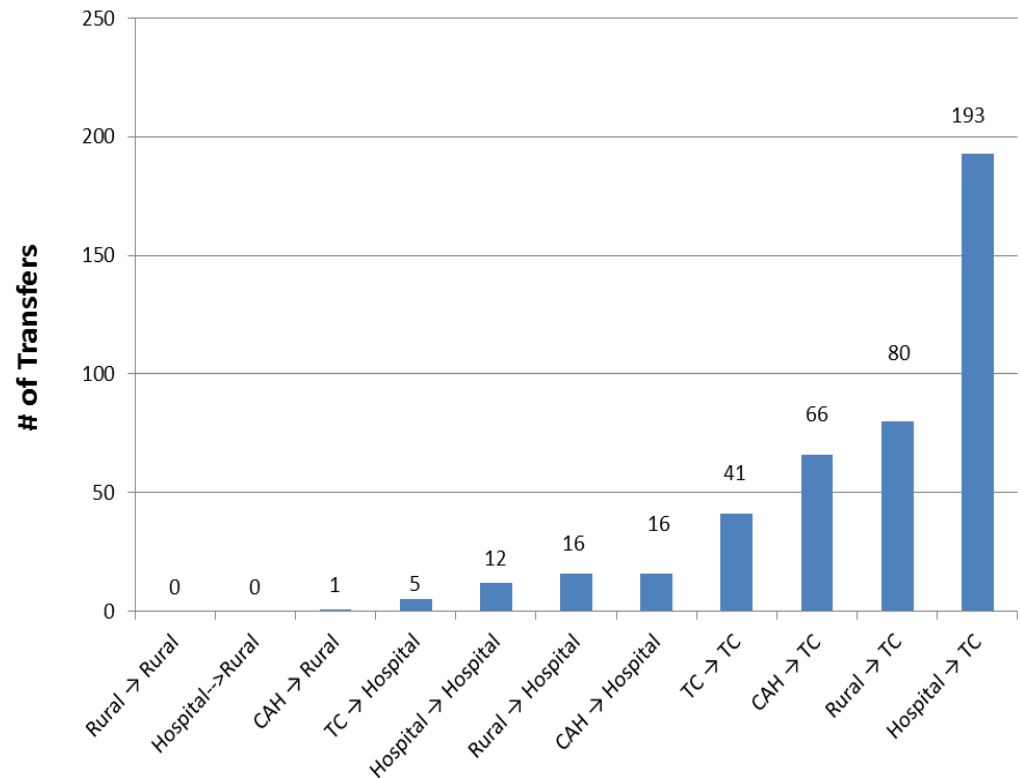
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Facility to Facility Transfers

For Transfer Patients:		
Initial Hospital Type	Final Hospital Type	Incident Counts
Rural Hospital	Rural Hospital	0
Hospital	Rural Hospital	0
Critical Access Hospital	Rural	1
Trauma Center	Hospital	5
Hospital	Hospital	12
Rural	Hospital	16
Critical Access Hospital	Hospital	16
Trauma Center	Trauma Center	41
Critical Access Hospital	Trauma Center	66
Rural Hospital	Trauma Center	80
Hospital	Trauma Center	193

Facility Transfer Type



Rural = Rural Hospital; TC = ACS Verified or In Process Trauma Center;

CAH = Critical Access Hospital; Hospital = does not fall into above categories

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For Linked Transfer Patients:

For Transfer Patients:					
	All Transfer Patients	Critical*	Physiological Critical**	ISS Critical***	<u>Ps <0.5****</u>
Number of Patients	430	415	414	38	2
EMS Notified to Scene	11.1 minutes	7.7 minutes	7.8 minutes	8.0 minutes	10.5 minutes
EMS Scene Arrival to Departure	16.9 minutes	16.3 minutes	16.3 minutes	15.8 minutes	8.5 minutes
EMS Scene Departure to Initial Hospital ED Arrival	17.1 minutes	16.9 minutes	16.7 minutes	17.2 minutes	10 minutes
Initial Hospital ED Arrival to Departure	3 hours 0.5 minutes	3 hours 4.3 minutes	3 hours 5.6 minutes	2 hours 34.4 minutes	1 hour 39 minutes
Initial Hospital ED Departure to Final Hospital ED Arrival	57.8 minutes	57.5 minutes	57.1 minutes	55.1 minutes	48 minutes
TOTAL TIME	4 hours 43.4 minutes	4 hours 42.7 minutes	4 hours 43.5 minutes	4 hours 10.5 minutes	2 hours 56 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.

***ISS Critical Transfer patient is defined as having an ISS $>$ 15.

****Patients with a probability of survival \leq 0.5.

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For Linked Transfer Patients:

For Transfer Patients:					
	All Transfer Patients	<i>Critical*</i>	<i>Physiological Critical**</i>	<i>ISS Critical***</i>	<u><i>Ps <0.5****</i></u>
Number of Patients	430	415	414	38	2
Total Time	4 hours 43.4 minutes	4 hours 42.7 minutes	4 hours 43.5 minutes	4 hours 10.5 minutes	2 hours 56 minutes
Total Mileage	53.8	54.1	54.2	59.8	77.4
Injury Scene to Initial Hospital Mileage***	8.1	8.1	8.1	7.3	9.7
Initial Facility to Final Facility Mileage	45.7	46	46	52.5	67.7

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	8.1	45.7	53.8	372	58
North Region	7.2	44.7	51.9	189	22
Central Region	8.3	47.9	56.3	99	23
South Region	9.6	45.2	54.8	84	13

*Critical patient is defined as having a GCS ≤ 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 ≤ 12 at the initial hospital.

*** ISS Critical Transfer patient is defined as ISS > 15 at the initial hospital.

****Probability of Survival < 0.5

†Injury Scene to Initial Facility Mileage location estimated by zip code centroid

Statistics for Estimated Average Distance by Region calculated by Public Health Geographics, Epidemiology Resource Center, ISDH

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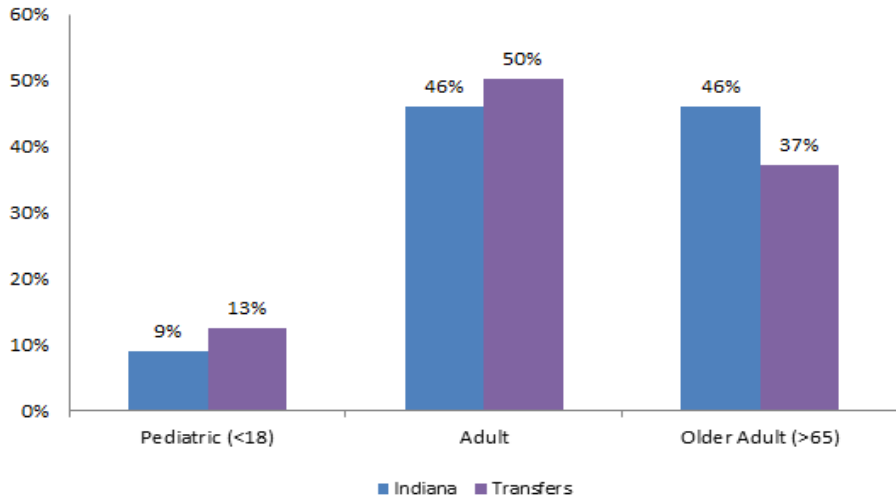
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7,050 Incidents—430 Transfers

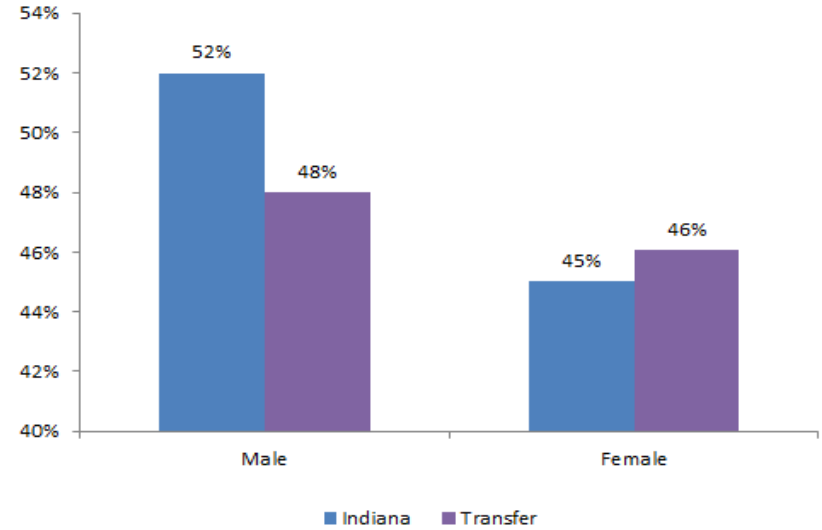
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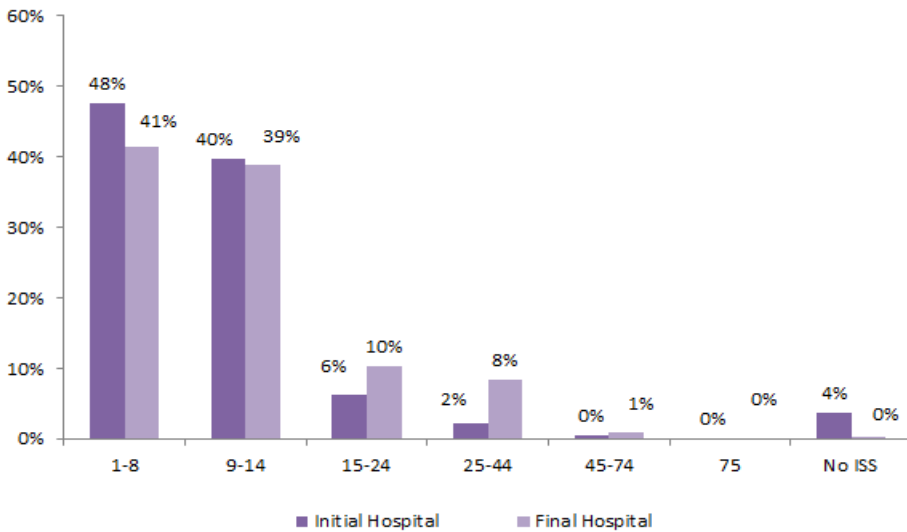
Patient Age Groupings



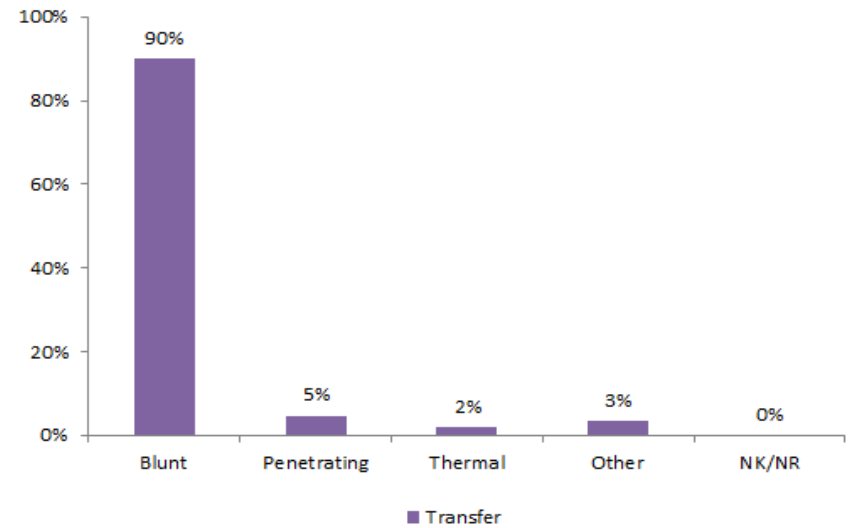
Patient Gender



Injury Severity Score (ISS)



Trauma Type- Final Hospital



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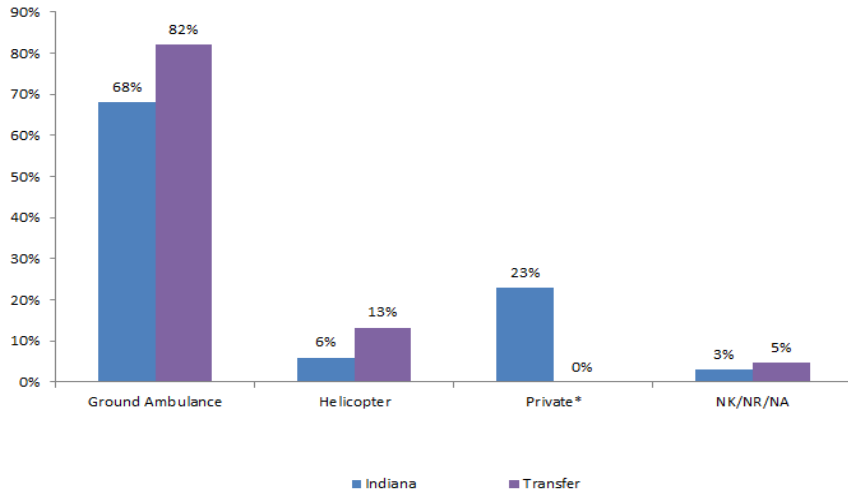
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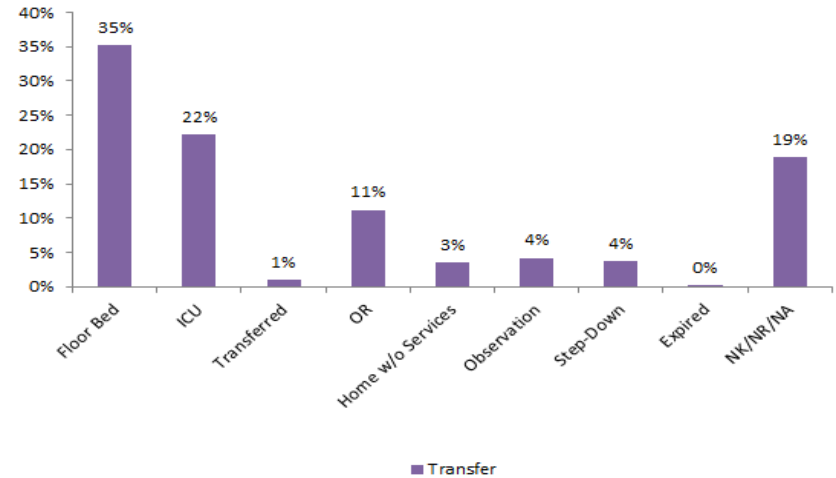
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(Non-Trauma) Hospitals:	76 facilities	45.4% of data

Transport Mode— Final Hospital

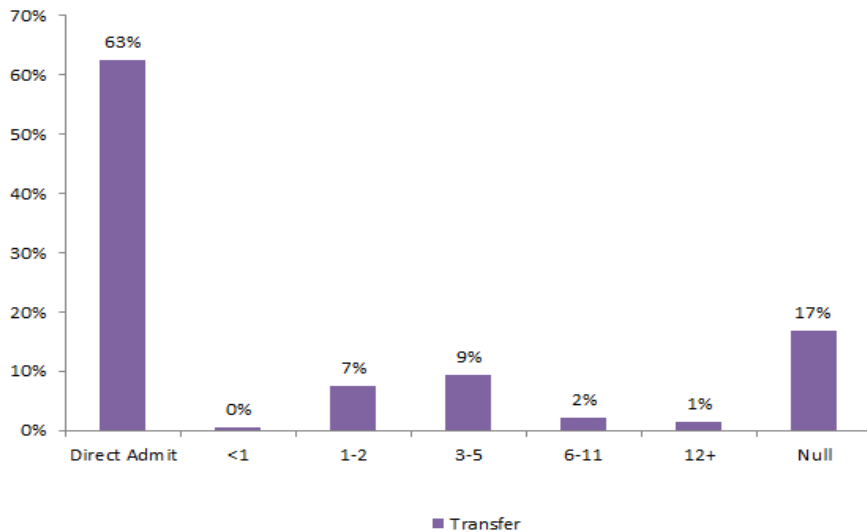


<1% Transport Mode: Police, Other * Indicates Private/ Public Vehicle, Walk-in

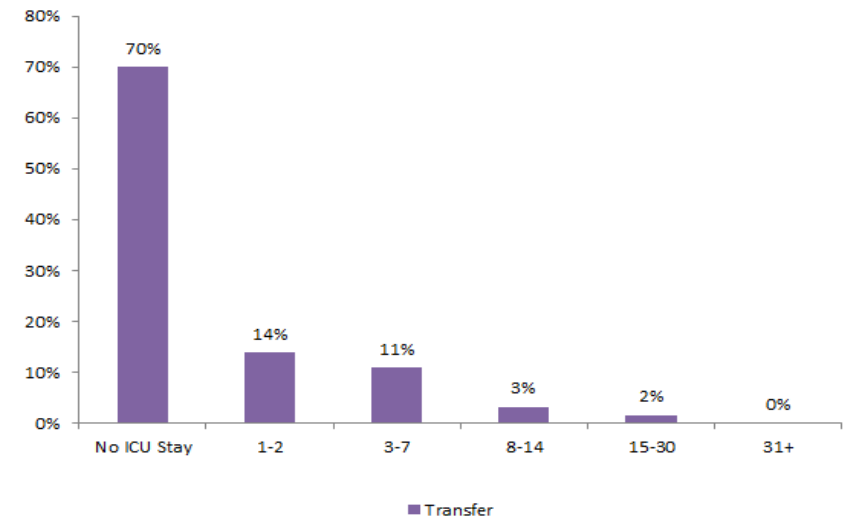
ED Disposition by Percentage- Final Hospital



ED Length of Stay (hours)- Final Hospital



ICU Length of Stay (days)- Final Hospital

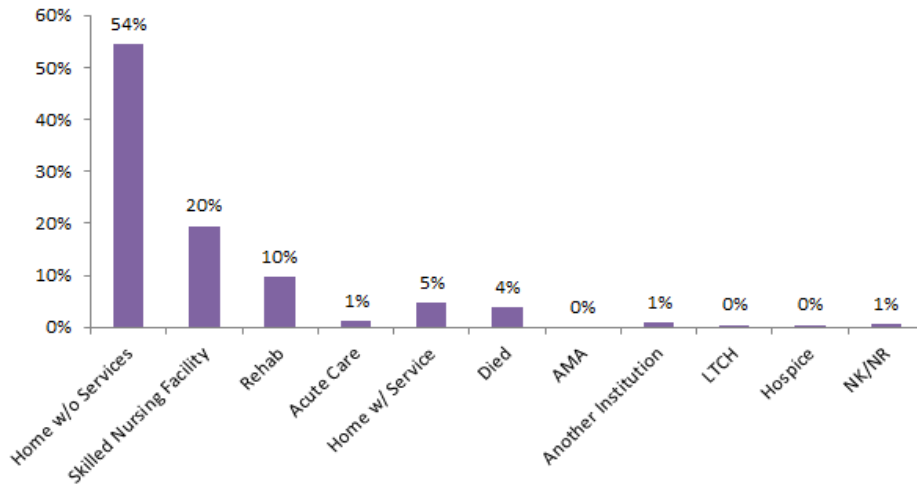


Indiana Trauma Registry

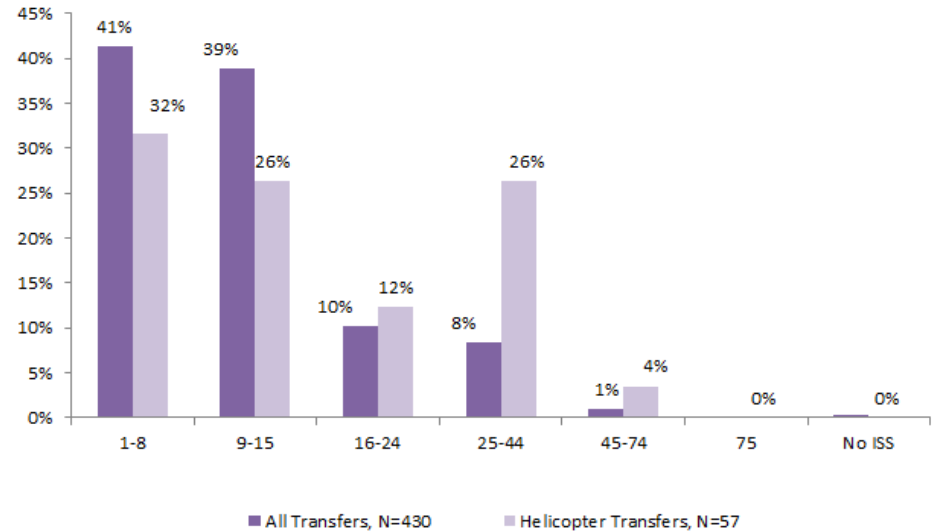
Statewide Quarter 1 Data Report
January 1, 2015—March 31, 2015
7,050 Incidents—430 Transfers

94 Total Hospitals Reporting
Level I and II: 8 facilities 38.6% of data
Level III: 10 facilities 16.0% of data
(Non-Trauma) Hospitals: 76 facilities 45.4% of data

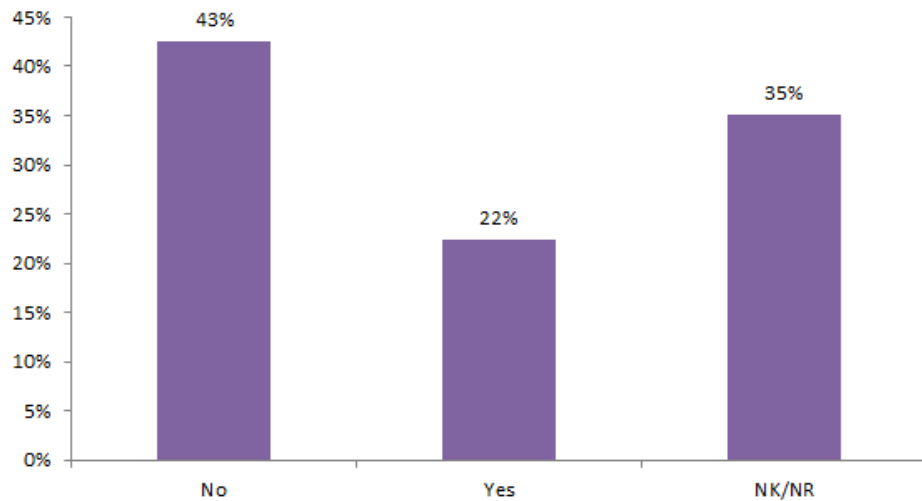
Discharge Disposition— Final Hospital



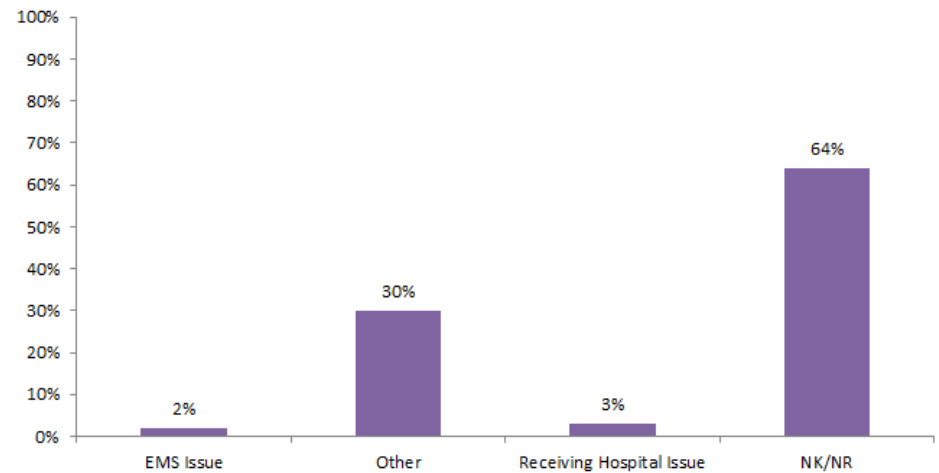
Helicopter Transfers by ISS— Final Hospital



Transfer Delay Indicated- Initial Hospital



Initial Facility Transfer Delay Reason



Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

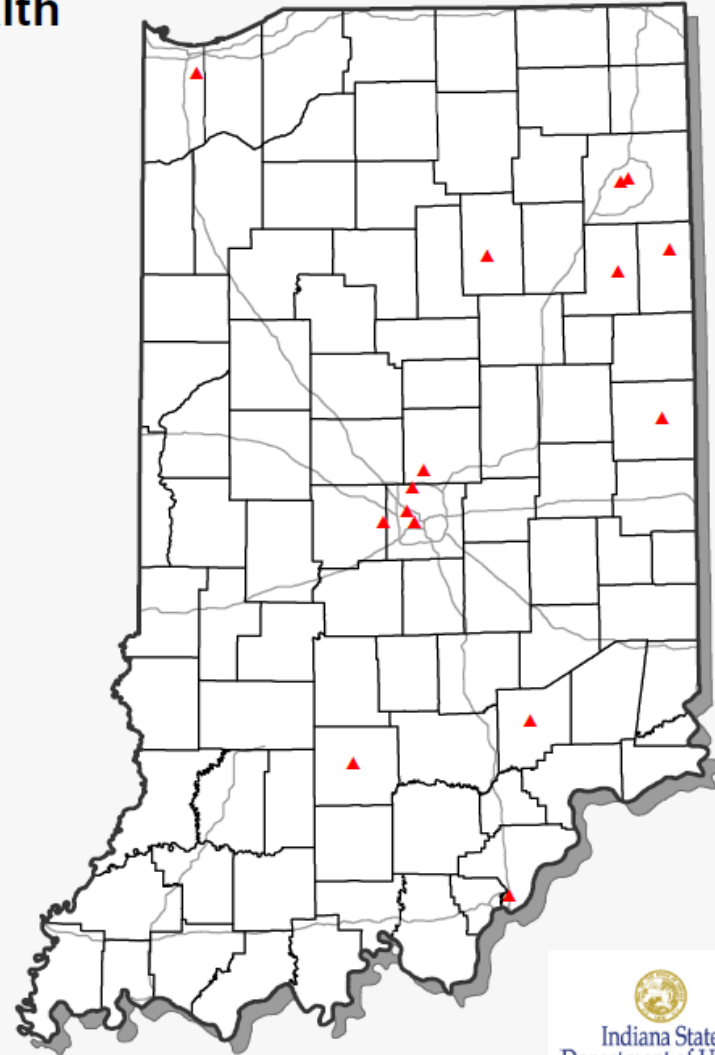
94 Total Hospitals Reporting

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Indiana State Department of Health Indiana Trauma Registry

Hospitals Not Reporting Trauma Data
to the Indiana Trauma Registry

Adams Memorial Hospital
Bluffton Regional Medical Center
Community Westview Hospital
IU Health - West Hospital
Kentuckiana Medical Center
Parkview Wabash Hospital
Richard L Roudebush VA Medical Center
St. Joseph Hospital (Fort Wayne)
St. Mary Medical Center Hobart
St. Vincent - Carmel Hospital
St. Vincent - Dunn Hospital
St. Vincent - Fishers Hospital
St. Vincent - Jennings Hospital
St. Vincent - Peyton Manning Children's Hospital
St. Vincent - Randolph Hospital
VA Northern IN Healthcare System



Not reporting as of 7/15/2015

Map Author: ISDH ERC PHG and ISDH Trauma & Injury Prevention - July 2015

Indiana Trauma Registry

Statewide Quarter 1 Data Report January 1, 2015—March 31, 2015 7,050 Incidents

94 Total Hospitals Reporting

Level I and II:	8 facilities	38.6% of data
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Requests and Changes to the Report from Trauma Care Committee members at the February 2015 ISTCC Meeting:

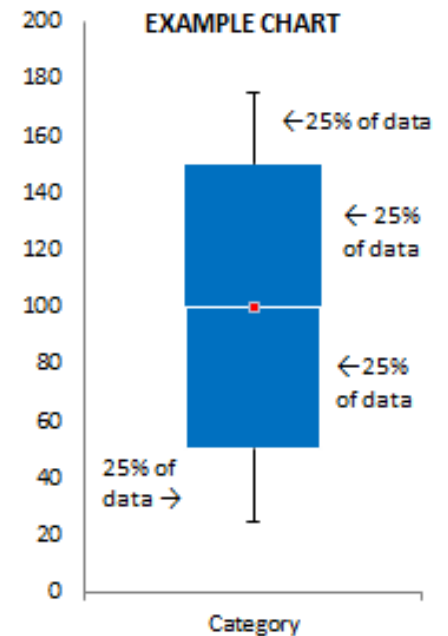
General Report:

- The hospital categories are now: Level I or II trauma centers, Level III trauma centers, and non-trauma hospitals. The trauma center categories include both verified and in process trauma centers. This is the second report that uses this categorization.
- The first half of the report (pages 1-21) focuses on data and timely topics for the past quarter. The second half of the report (Supplemental Report, pages 22-51) contain demographic information, data that stays nearly constant from quarter to quarter, and reference tables and maps.
- We are continuing to track the number of cases that fell into the ED LOS >12 hours category, which is on page 3.
- A map of all reporting hospitals is found on page 50.
- A map of all hospital not reporting is found on page 20.
- Average ED LOS by district may be found on pages 24. ED LOS is split out into transfers and critical transfers.
- There were five cases with Ps $\geq 50\%$ and ED Disposition of expired.
- A fifth column for transferred patients with Ps < 0.50 was added on pages 14 and 16.

Example Bar and Whisker Plot:

-Bar and whisker plots were requested at the November, 2013 ISTCC meeting in order to show more than just an average ED LOS and ED LOS by ISS. The bar and whisker plots represent the four quartiles of data, as illustrated on the example graph to the right. The blue boxes each contain 25% of the values and the error bars each represent where 25% of the values fell. The median is represented in the middle of the two blue boxes with the white line. The red dot in the center indicates the average for that category. The cap on the error bars indicates the minimum and maximum of each category and all the values fall within the two caps.

-For the ED LOS bar and whisker plots to the right, the average is represented by the white dot and the color boxes reflect the hospital type. The ED LOS by ISS plots on the next page follow the same layout and the red dots indicate the average for each of the ISS categories.



Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

94 Total Hospitals Reporting

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(Non-Trauma) Hospitals:	76 facilities	45.4% of data

Supplemental Report

-The Supplemental Report (pages 22-51) contain demographic information, data that stays nearly constant from quarter to quarter, and reference tables and maps.

Definitions:

Direct Admit: Patient is admitted directly to the hospital and does not spend time in Emergency Department. The ED Length of Stay should reflect a direct admittance.

External Cause of Injury: ICD-9-CM codes that are used to describe the mechanism or external factor that caused the injury event.

Trauma Type: The classification of the force applied to the body. Trauma type categories include blunt, penetrating, thermal, and other trauma.

Injury Severity Score: An anatomical scoring system defined as the sum of the three highest squared maximum Abbreviated Injury Scale (AIS) values to account for multiple injuries in the six body regions.

Acronyms:

E-code: External Cause of Injury	MVC: Motor Vehicle Collision
ED: Emergency Department	OR: Operating Room
ICU: Intensive Care Unit	Ps: Probability of Survival
ISS: Injury Severity Score	CAHs: Critical Access Hospital
LOS: Length of Stay	

Calculations:

$Ps = 1/(1+e^{-b})$ where $b=b_0+b1(RTS) + b2(ISS) + b3(\text{Age Index})$

Total GCS = Verbal GCS + Motor GCS + Eye GCS

$RTS = 0.94 * GCS + 0.73 * SBP + 0.29 * RR$

$ISS = (AIS)^2 + (AIS)^2 + (AIS)^2$



Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

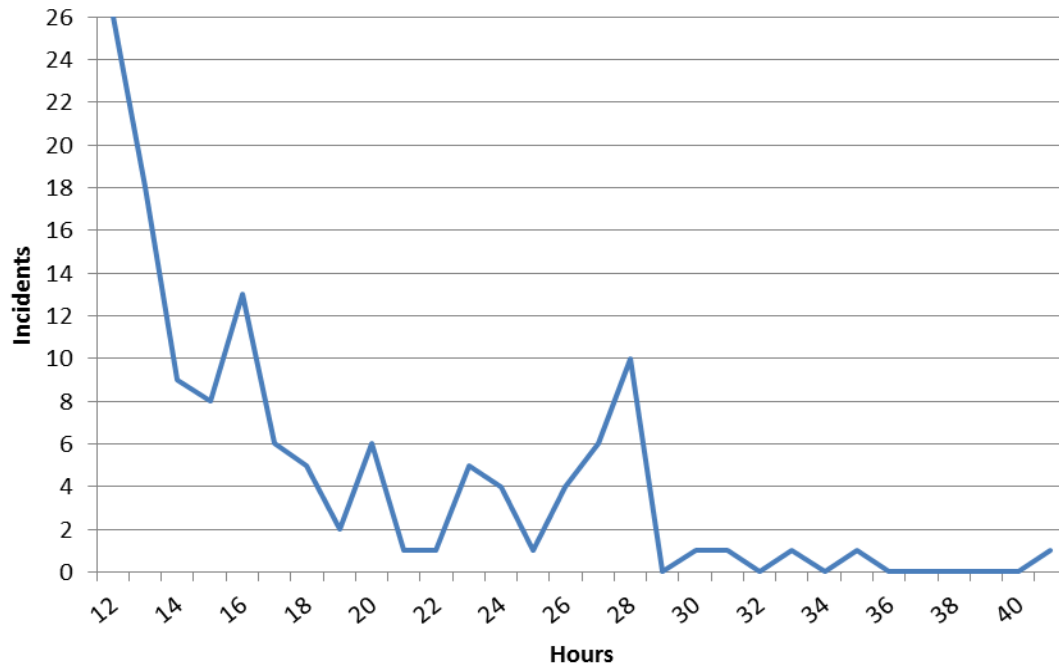
94 Total Hospitals Reporting

Level I and II: 8 facilities 38.6% of data

Level III: 10 facilities 16.0% of data

(Non-Trauma) Hospitals: 76 facilities 45.4% of data

ED LOS ≥ 12 Hours



N=130

ED Length of Stay ≥ 12 Hours

Hour	Count	Hour	Count
12th	26	27th	6
13th	18	28th	10
14th	9	29th	0
15th	8	30th	1
16th	13	31st	1
17th	6	32nd	0
18th	5	33rd	1
19th	2	34th	0
20th	6	35th	1
21st	1	36th	0
22nd	1	37th	0
23rd	5	38th	0
24th	4	39th	0
25th	1	40th	0
26th	4	41st	1

Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

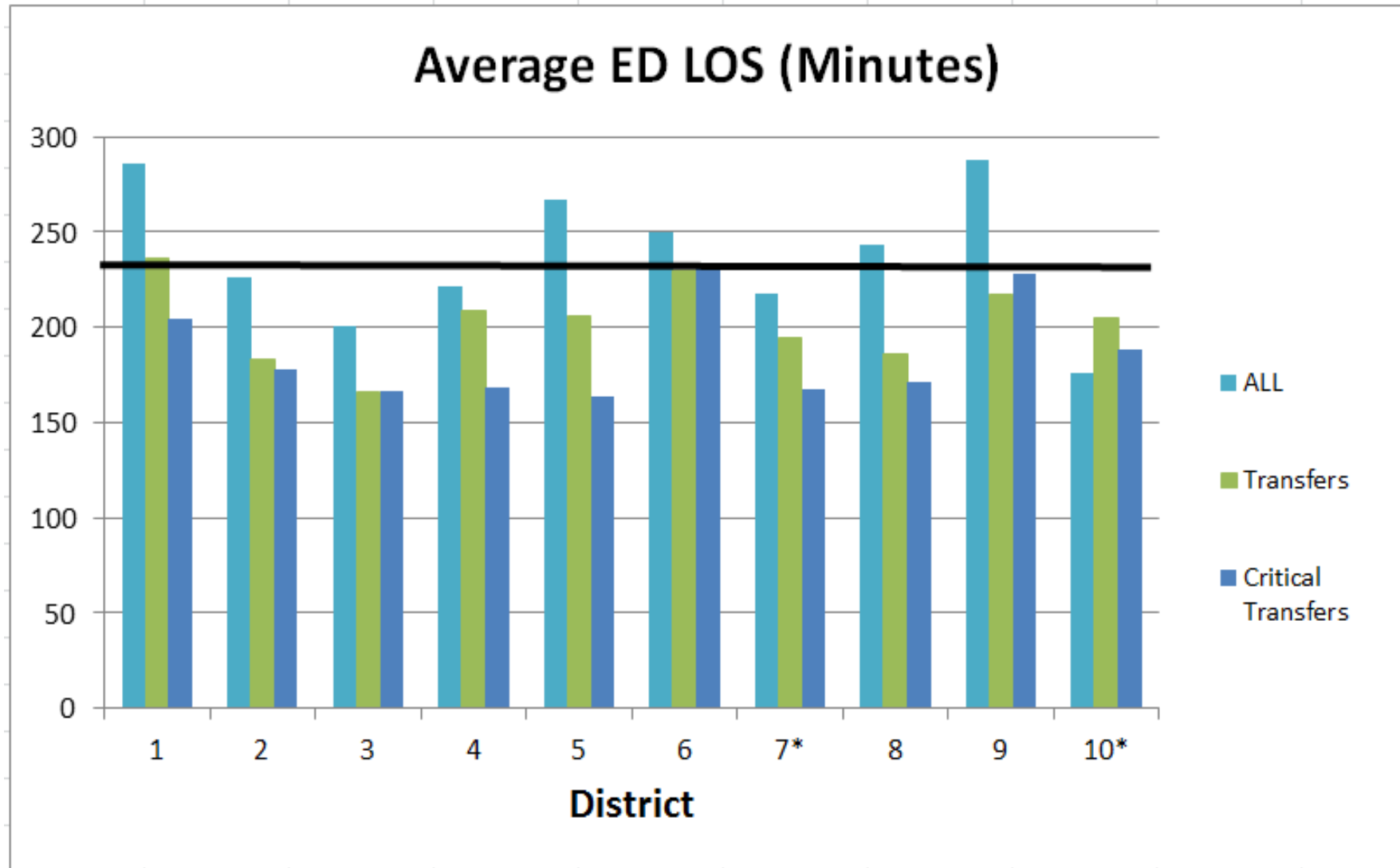
7,050 Incidents

94 Total Hospitals Reporting

Level I and II: 8 facilities 38.6% of data

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*Districts 7 and 10 have all hospitals reporting. The average bar is for all patients.

Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

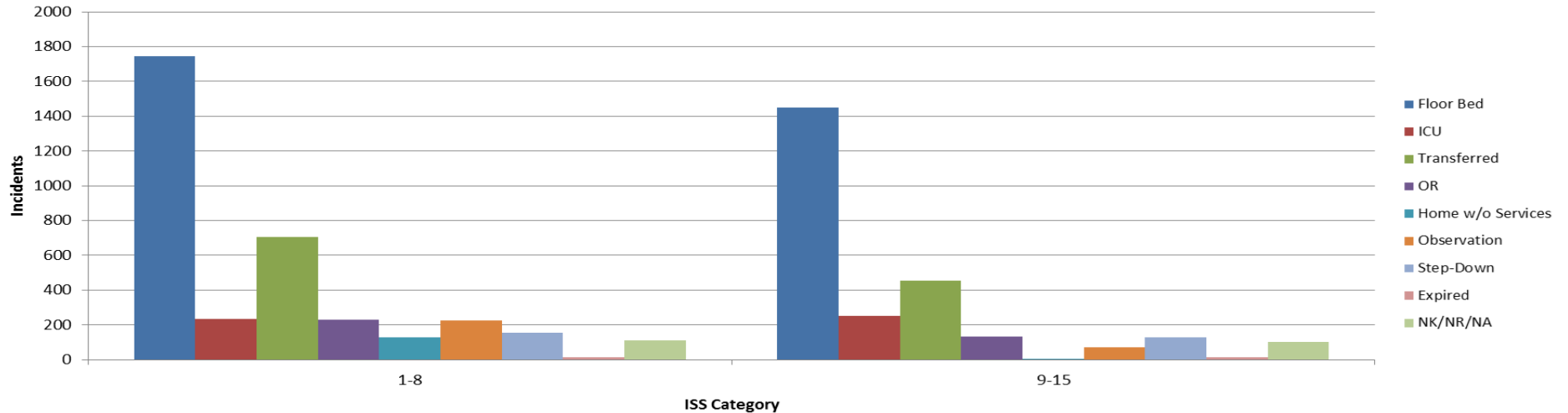
94 Total Hospitals Reporting

Level I and II: 8 facilities 38.6% of data

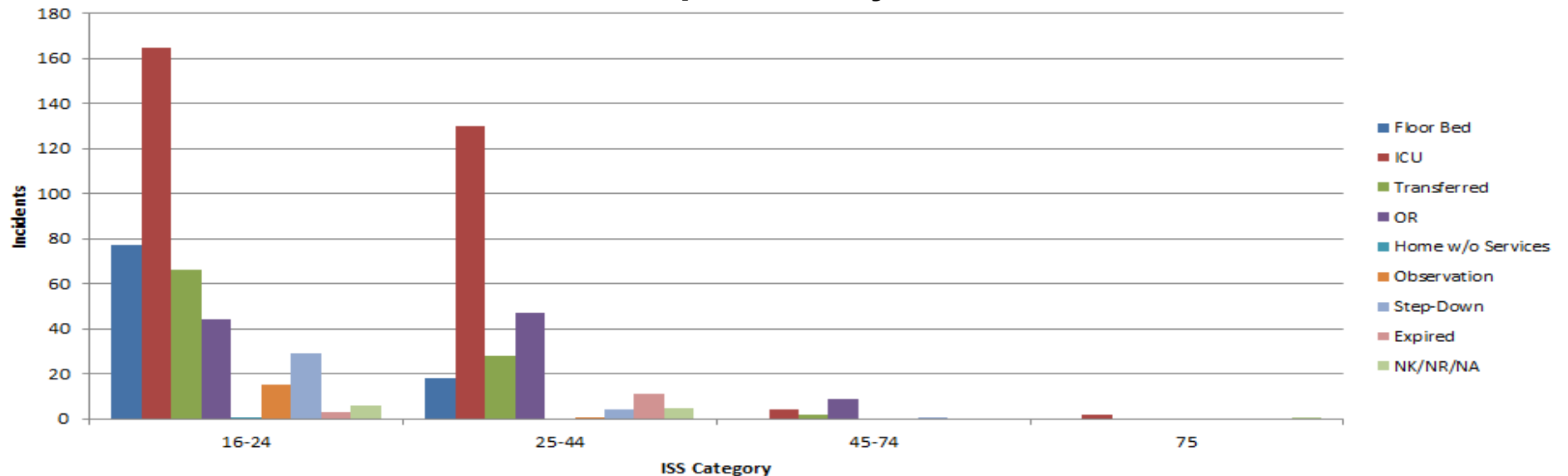
Level III: 10 facilities 16.0% of data

(Non-Trauma) Hospitals: 76 facilities 45.4% of data

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 49.

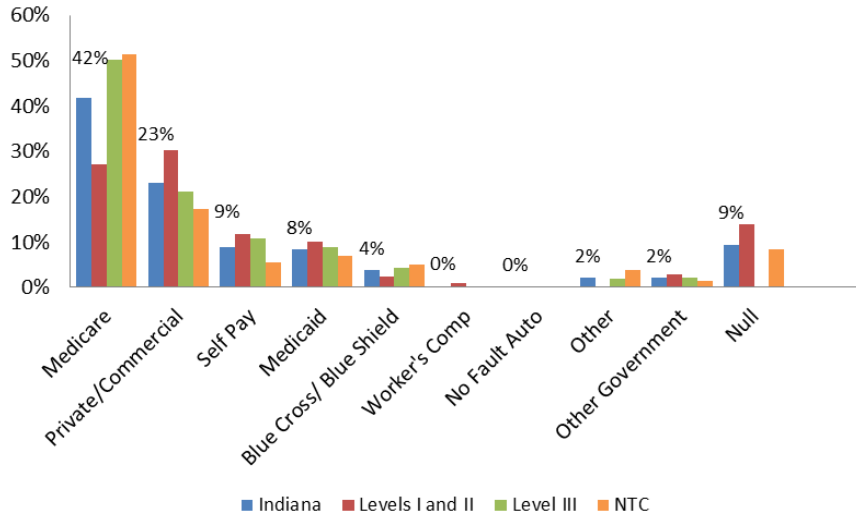
Indiana Trauma Registry

Statewide Quarter 1 Data Report
January 1, 2015—March 31, 2015
7,050 Incidents

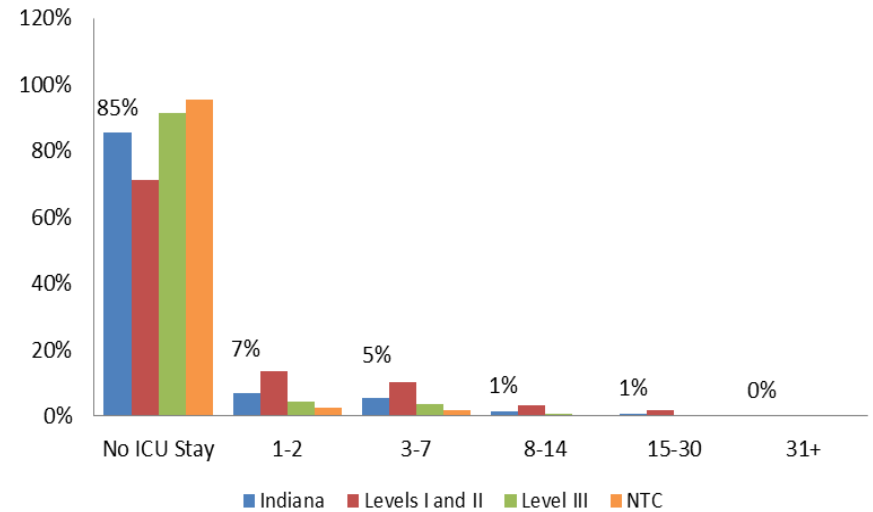
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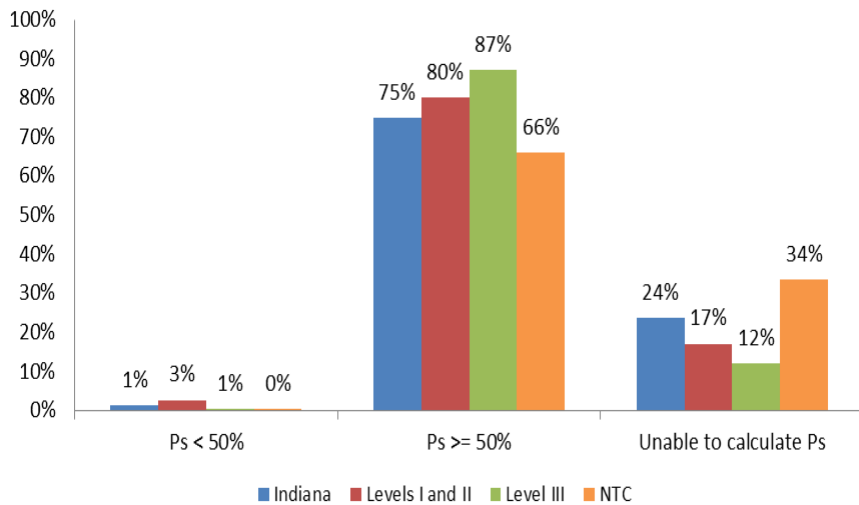
Primary Payer Mix



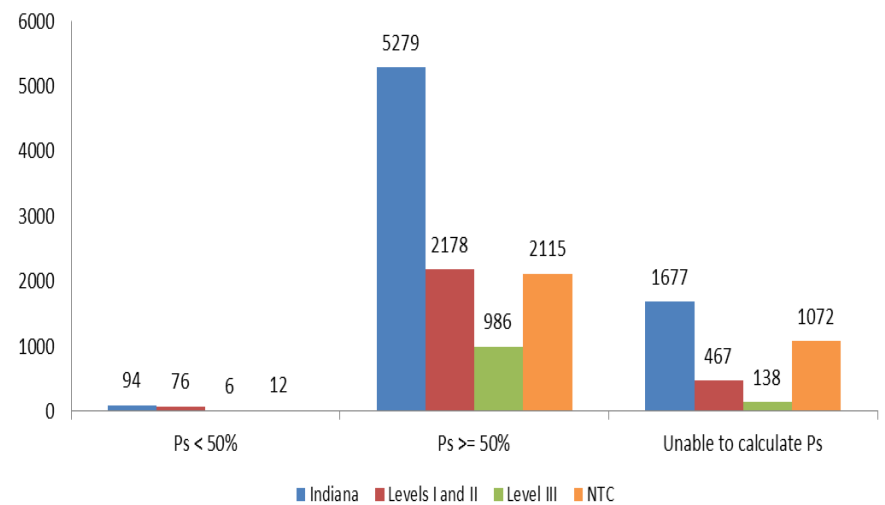
ICU Length of Stay (Days)



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 6,174 incidents with calculated Ps.

Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

94 Total Hospitals Reporting

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(Non-Trauma) Hospitals: 76 facilities 45.4% of data

Probability of Survival Components—All Patients									
Components		Count Missing				Percent Missing			
		Indiana	Levels I and II	Level III	Non-Trauma Center	Indiana	Levels I and II	Level III	Non-Trauma Centers
RTS	GCS	1092	255	48	789	15.49%	9.37%	4.25%	24.66%
	SBP	385	90	36	259	5.46%	3.31%	3.19%	8.10%
	Respiratory Rate	338	85	28	225	4.79%	3.12%	2.48%	7.035
ISS		210	1	14	195	2.98%	0%	0%	6.10%
Age		1	0	0	1	0.01%	0%	0%	0.03%

$$RTS = 0.9368 * GCS + 0.7326 * SBP + 0.2908 * \text{Respiratory Rate}$$

Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

94 Total Hospitals Reporting

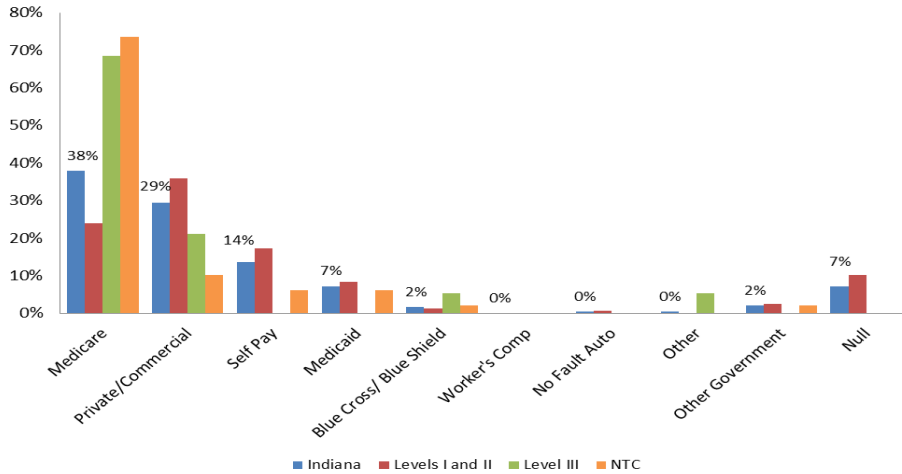
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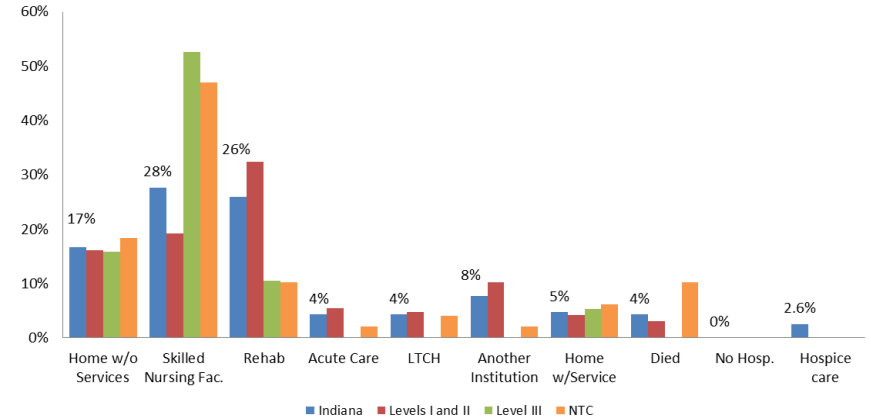
(Non-Trauma) Hospitals: 76 facilities 45.4% of data

Hospital Length of Stay > 15 days, N=235

Primary Payer Mix

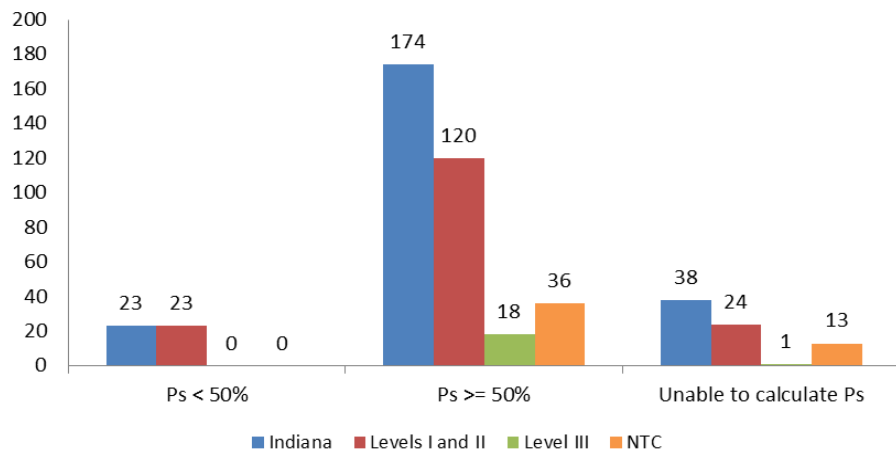


Hospital Disposition

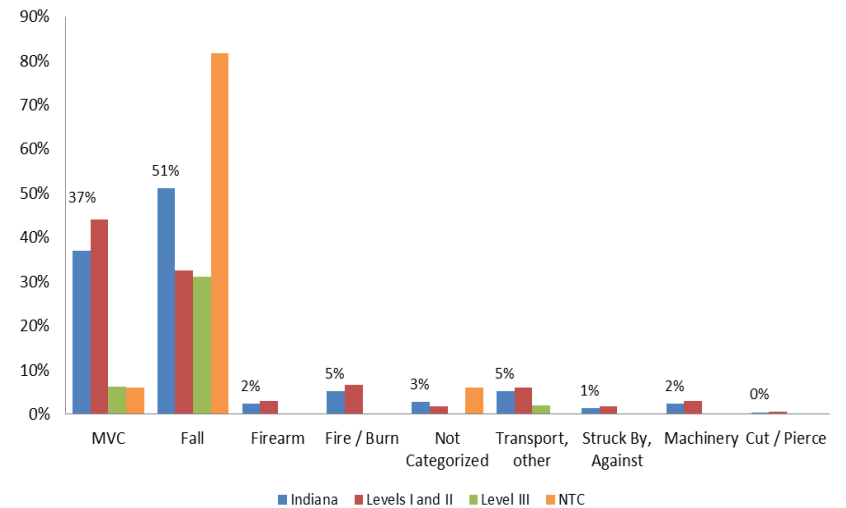


Another Institution includes any other medical facility not defined in the other categories.

Probability of Survival



Cause of Injury



Hospital Length of Stay > 15 Days: Total N=235;
Level III N=19;

Levels I and II N= 167;
NTC N=49

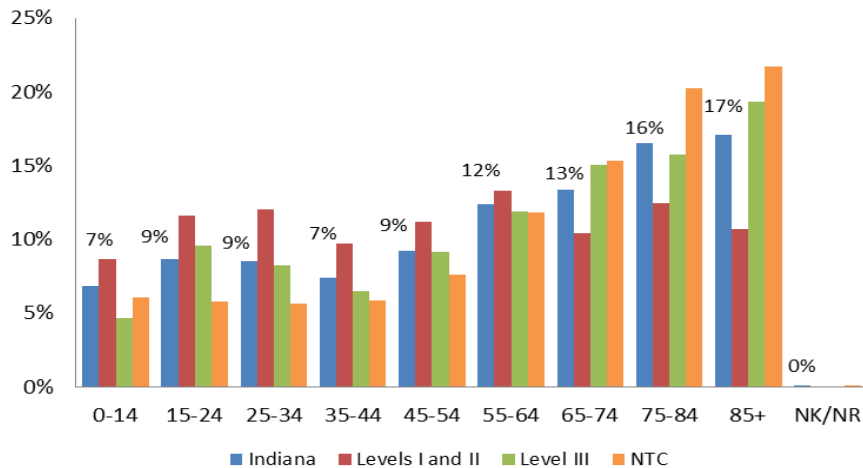
Indiana Trauma Registry

Statewide Quarter 1 Data Report January 1, 2015—March 31, 2015 7,050 Incidents

94 Total Hospitals Reporting

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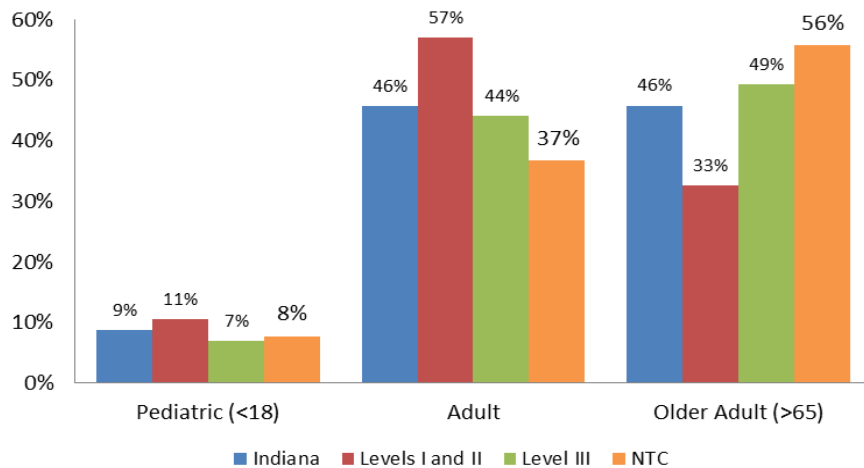
Patient Age (Years)



There was 1 unknown age.

Age Group	Indiana	I and II	III	NTC
0-14	482	236	53	193
15-24	609	316	108	185
25-34	600	327	93	180
35-44	523	264	73	186
45-54	651	305	103	243
55-64	874	362	134	378
65-74	944	283	170	491
75-84	1163	338	178	647
85+	1203	290	218	695
NK/NR	1	0	0	1
Total	7050	2721	1130	3199

Patient Age Groupings



Age Group	Indiana	I and II	III	NTC
Pediatric	608	286	77	245
Adult	3216	1548	497	1171
Older Adult	3225	887	556	1782
Total	7049	2721	1130	3198

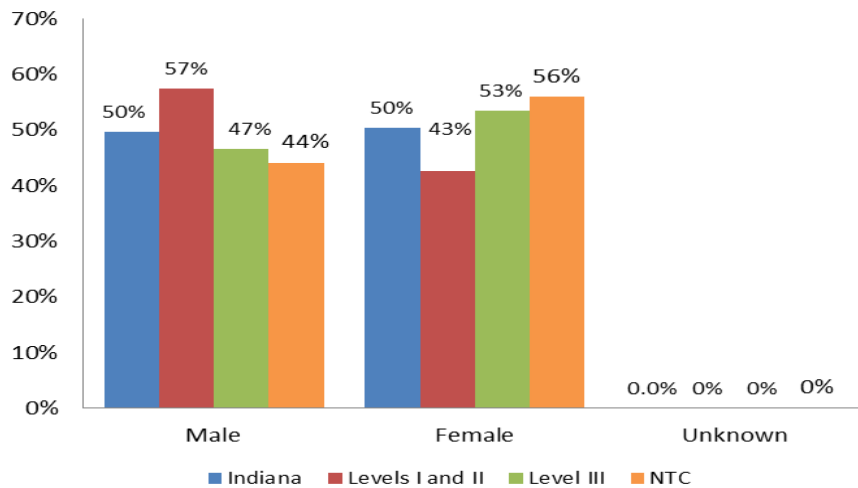
Indiana Trauma Registry

Statewide Quarter 1 Data Report
January 1, 2015—March 31, 2015
7,050 Incidents

94 Total Hospitals Reporting

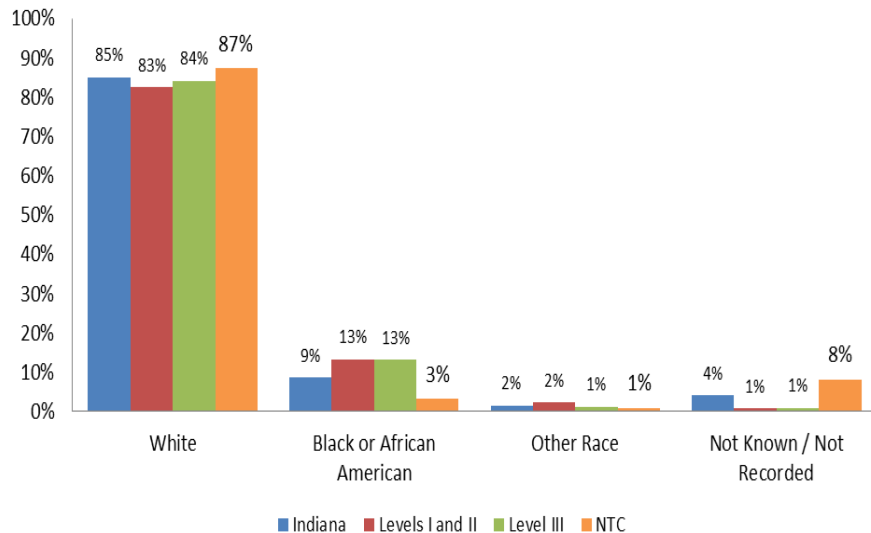
Level I and II:	8 facilities	38.6% of data
Level III:	10 facilities	16.0% of data
(Non-Trauma) Hospitals:	76 facilities	45.4% of data

Patient Gender



Gender	Indiana	I and II	III	NTC
Male	3496	1561	526	1409
Female	3553	1160	604	1789
Unknown	1	0	0	1
Total	7050	2721	1131	3199

Patient Race



Race	Indiana	I and II	III	NTC
White	5988	2245	950	2793
Black or African American	611	361	149	101
Other	108	63	13	32
Not Known/Not Recorded	291	21	10	260
American Indian or Alaska Native	7	1	5	1
Asian	37	25	2	10
Native Hawaiian or Pacific Islander	8	5	1	2
Total	7050	2721	1130	3199

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

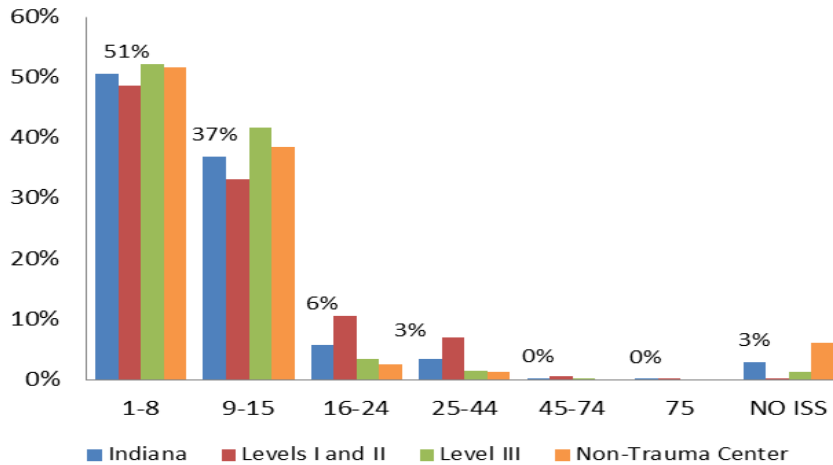
Indiana Trauma Registry

Statewide Quarter 1 Data Report
January 1, 2015—March 31, 2015
7,050 Incidents

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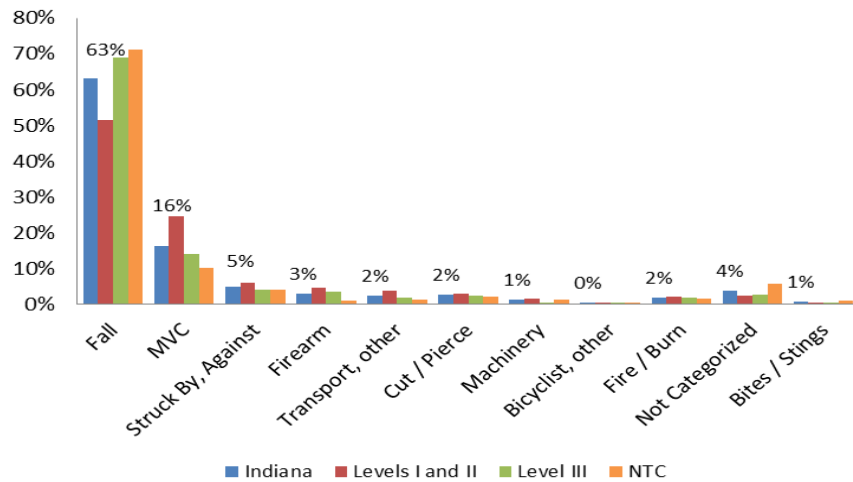
Injury Severity Score (ISS)



ISS Category	Indiana	I and II	III	NTC
1-8	3566	1323	589	1654
9-15	2605	904	471	1230
16-24	406	287	38	81
25-44	244	189	16	39
45-74	16	14	2	0
75	3	3	0	0
No ISS	210	1	14	195
Total	7050	2721	1130	3199

There were 16 and 3 cases in the 45-74 and 75+ categories, respectively

Cause of Injury



Cause of Injury	Indiana	I and II	III	NTC
Fall	4455	1397	778	2280
MVC	1140	663	157	320
Struck By, Against	328	161	43	124
Firearm	193	125	39	29
Transport	162	101	20	41
Cut/Pierce	173	79	26	68
Machinery	81	39	5	37
Bicyclist	22	9	4	9
Fire/Burn	119	52	18	49
Not Categorized	267	63	29	175
Bites/Stings	41	12	3	26

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

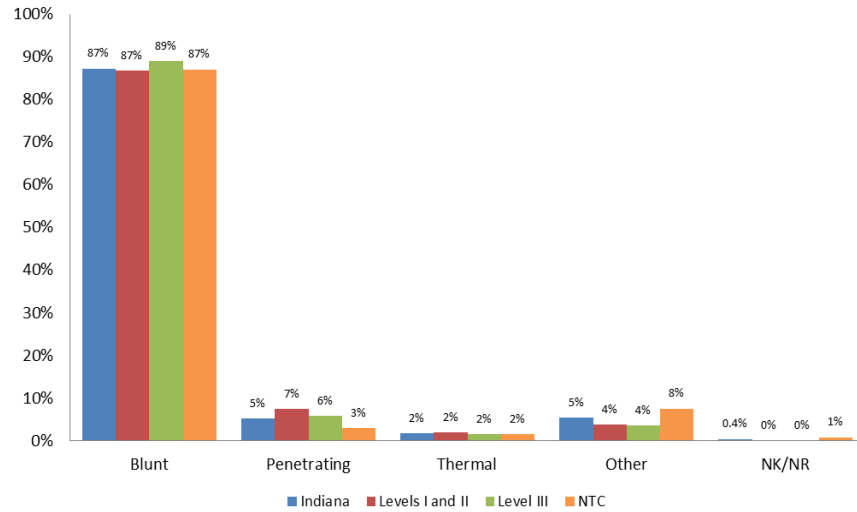
Indiana Trauma Registry

Statewide Quarter 1 Data Report January 1, 2015—March 31, 2015 7,050 Incidents

94 Total Hospitals Reporting

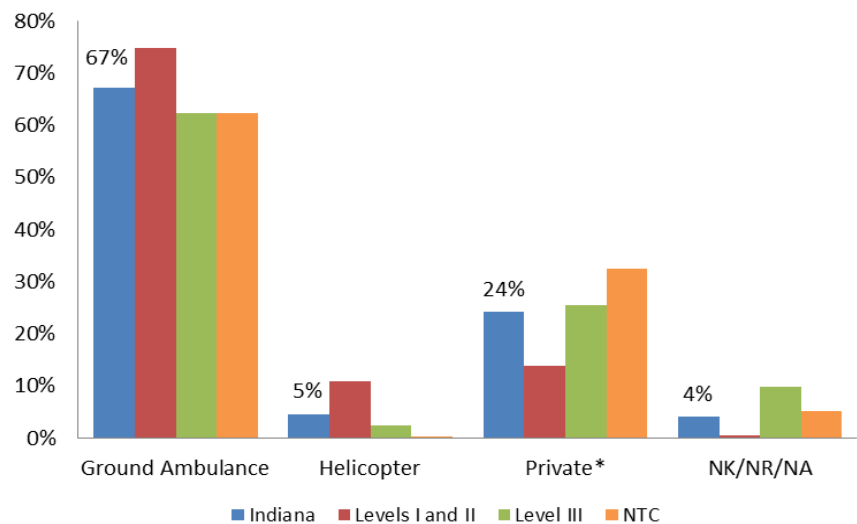
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Level III:	10 facilities	16.0% of data
(Non-Trauma) Hospitals:	76 facilities	45.4% of data

Trauma Type



Trauma Type	Indiana	I and II	III	NTC
Blunt	6151	2362	1005	2784
Penetrating	366	204	65	97
Thermal	120	53	18	49
Other	385	102	41	242
NK/NR	28	0	1	27
Total	7050	2721	1130	3199

Transport Mode



Transport Mode	Indiana	I and II	III	NTC
Ground Ambulance	4730	2034	703	1993
Helicopter	323	295	27	1
Private	1698	376	288	1034
NK/NR/NA	282	11	110	161
Police	16	5	2	9
Other	1	0	0	1
Total	7050	2721	1130	3199

Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

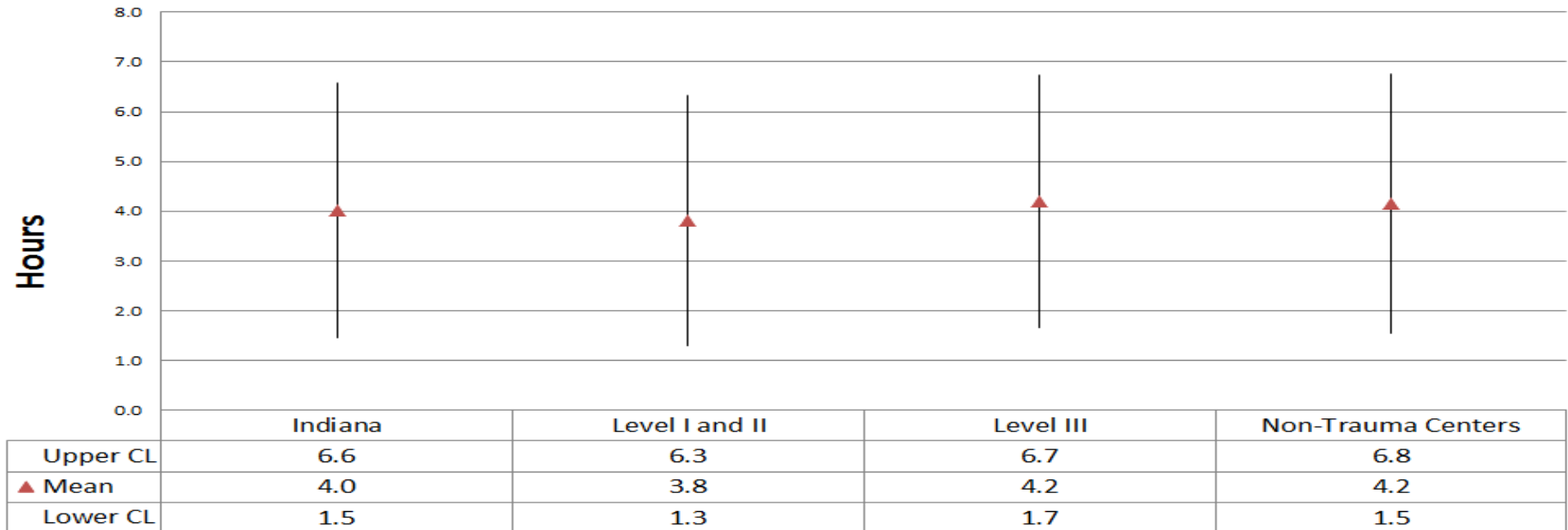
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All Patients



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.

The ED LOS for these graphs was modeled using time-to-event analysis. The purposes of using this analysis were to account for censoring (death) and to see how variables influence ED LOS. The outcome variable was ED LOS and the independent variables were total GCS and age. If total GCS was missing but manual total GCS was recorded, then the manual total GCS was used. These two variables were used because they were the most similar to variables used in the published, peer-reviewed literature on ED LOS. Both were significant in the model. Increasing total GCS and age led to a slightly shorter ED LOS. Hospitals that did not have enough incidents with total GCS or age could not be modeled.

In the chart on the left, note the trauma center average is above the mean and the non-trauma center is below the mean. The mean, 95% confidence limit and lower confidence limit are listed for each group.

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

Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

94 Total Hospitals Reporting

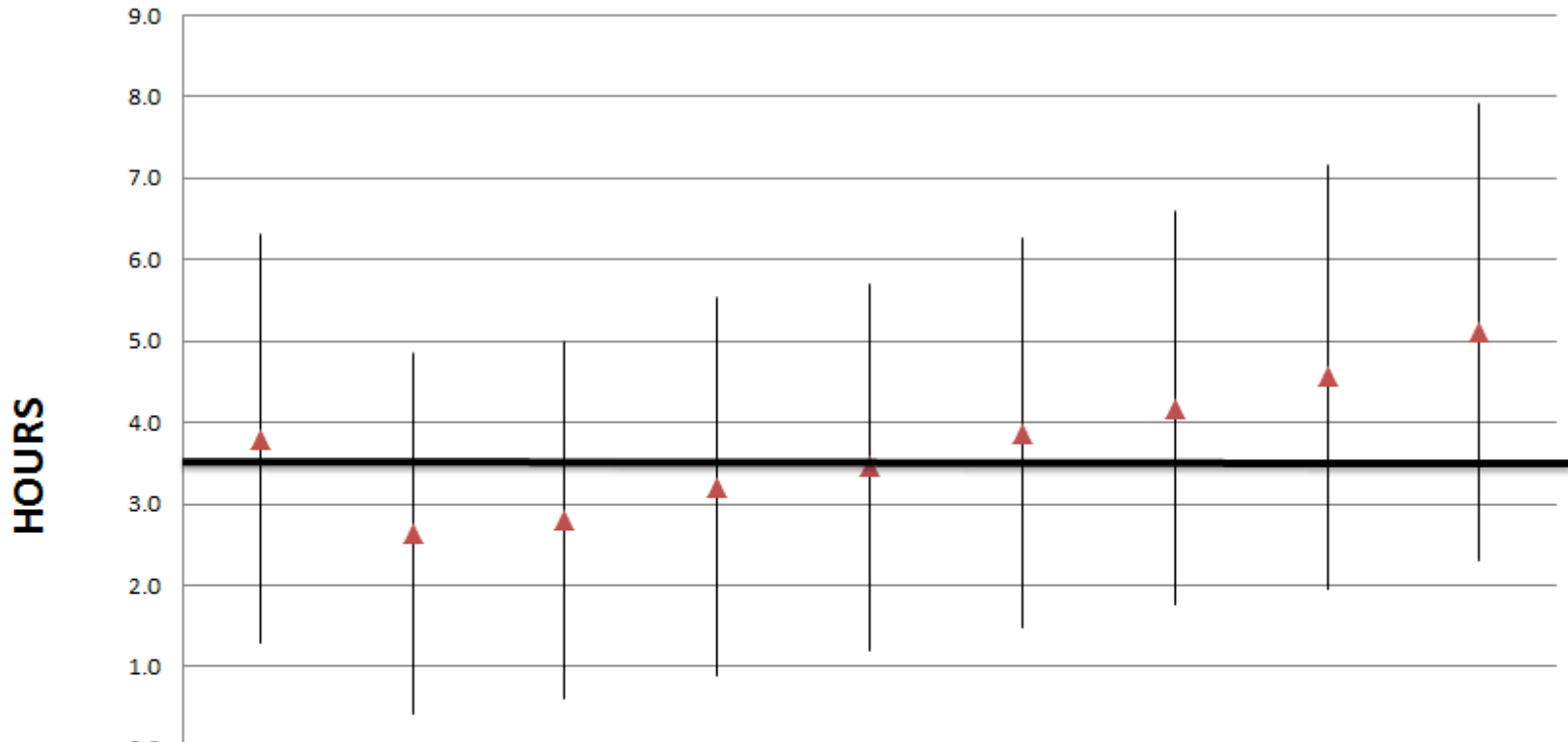
Level I and II: 8 facilities 38.6% of data

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All Patients

Level I and II Trauma Centers ED LOS (Hours)



	Levels I and II	ID 76	ID 121	ID 105	ID 60	ID 91	ID 30	ID 49	ID 83
Upper CL	6.3	4.9	5.0	5.5	5.7	6.3	6.6	7.2	7.9
▲ Mean	3.8	2.6	2.8	3.2	3.5	3.9	4.2	4.6	5.1
Lower CL	1.3	0.4	0.6	0.9	1.2	1.5	1.8	2.0	2.3

Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

94 Total Hospitals Reporting

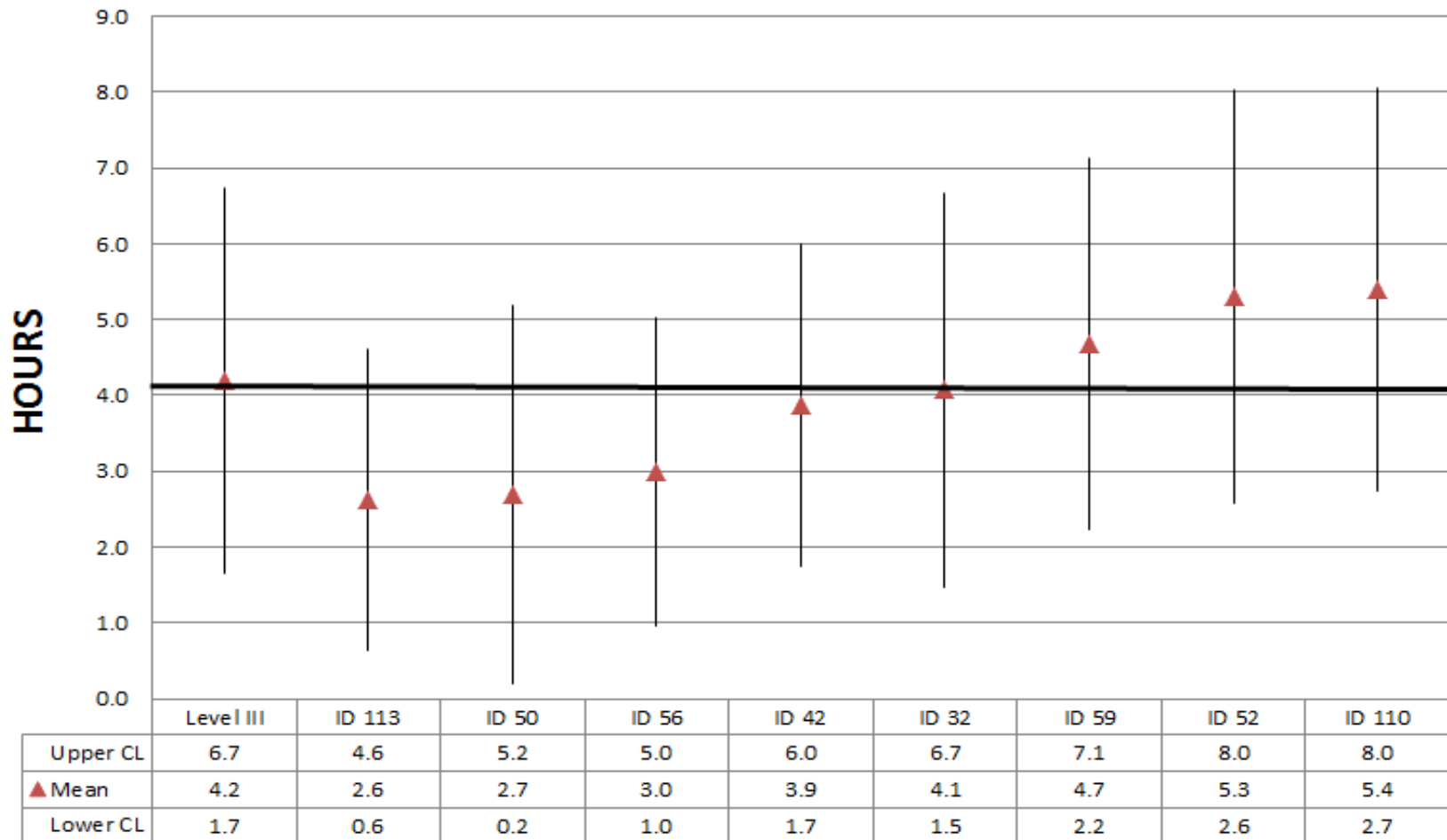
Level I and II: 8 facilities 38.6% of data

Level III: 10 facilities 16.0% of data

(Non-Trauma) Hospitals: 76 facilities 45.4% of data

All Patients

Level III Trauma Centers ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

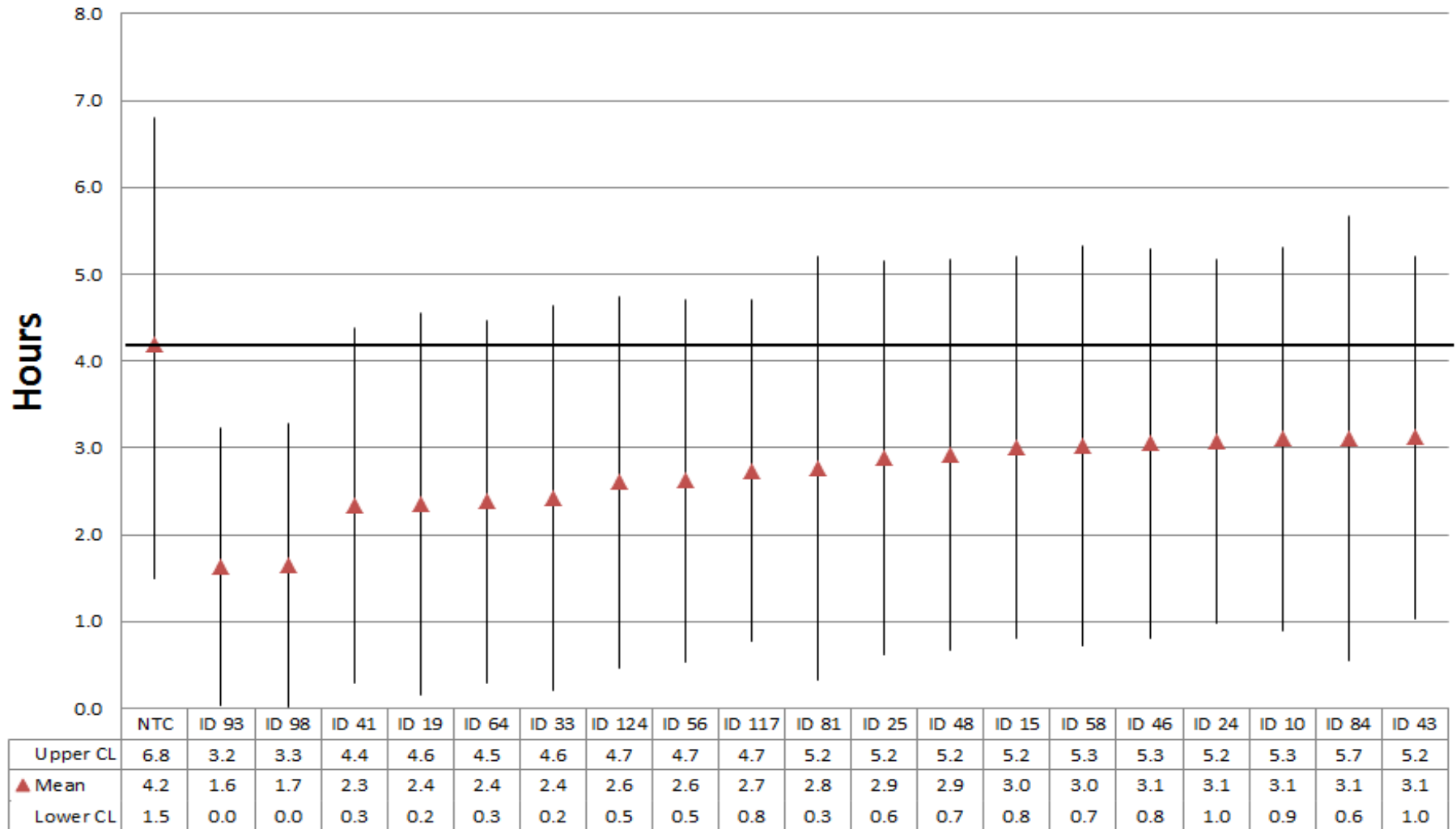
94 Total Hospitals Reporting

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All Patients Non-Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

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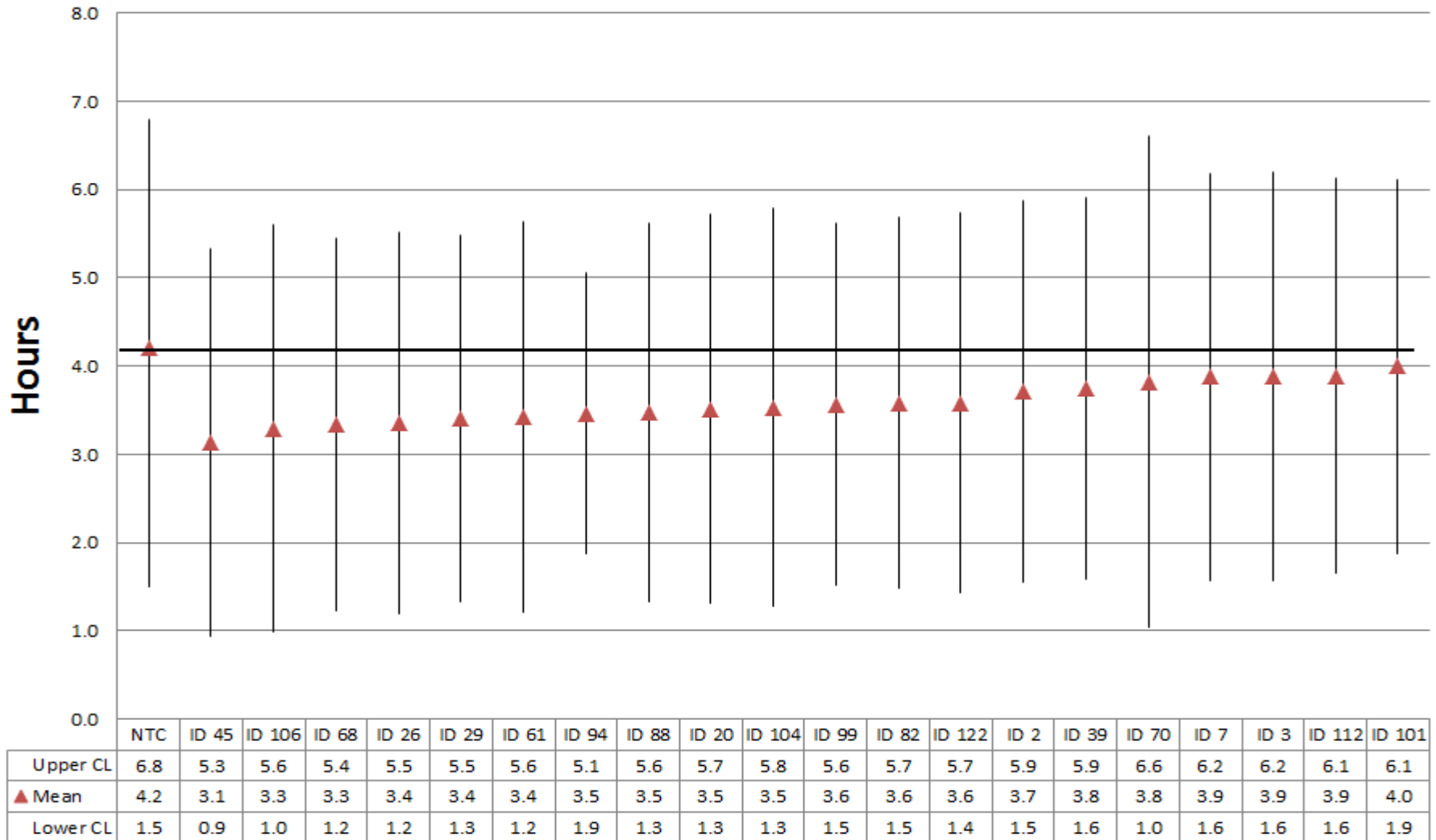
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All Patients Non-Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

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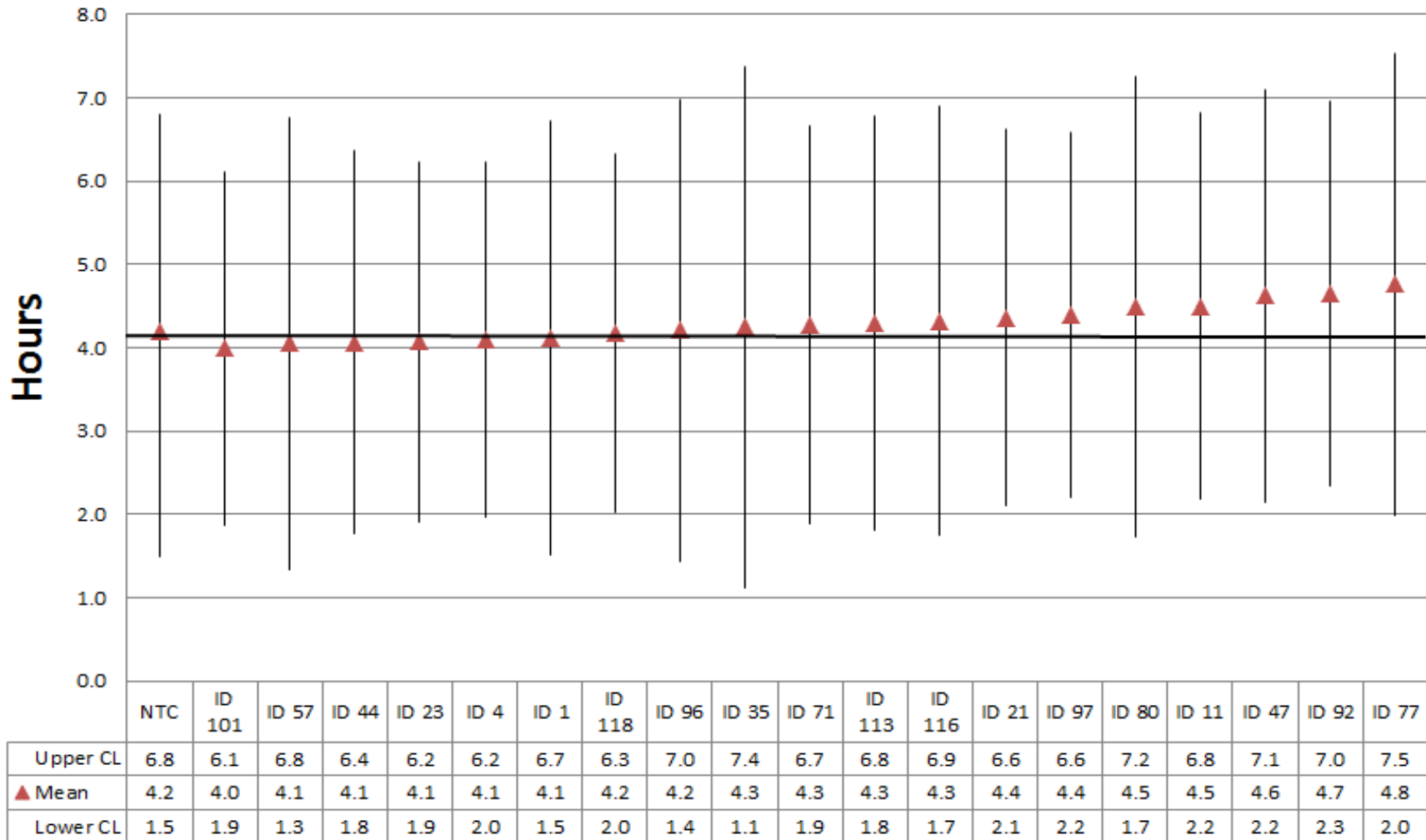
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All Patients Non-Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 1 Data Report

January 1, 2015—March 31, 2015

7,050 Incidents

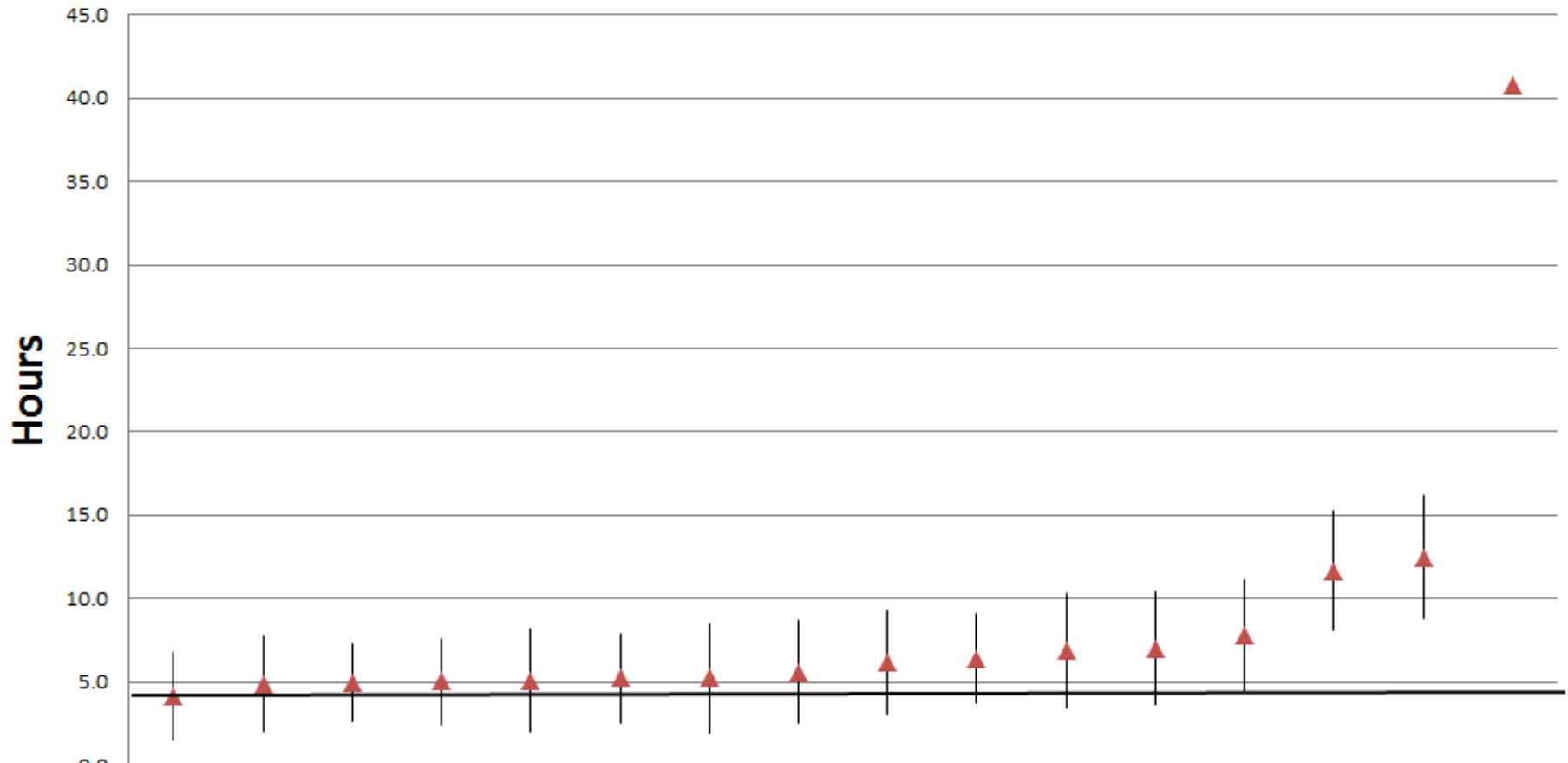
94 Total Hospitals Reporting

Level I and II: 8 facilities 38.6% of data

Level III: 10 facilities 16.0% of data

(Non-Trauma) Hospitals: 76 facilities 45.4% of data

All Patients Non-Trauma Centers- Average ED LOS (Hours)



	NTC	ID 65	ID 34	ID 27	ID 125	ID 109	ID 67	ID 62	ID 55	ID 73	ID 120	ID 90	ID 86	ID 5	ID 78	ID 107
Upper CL	6.8	7.7	7.3	7.6	8.2	7.9	8.5	8.7	9.3	9.1	10.3	10.4	11.1	15.3	16.1	40.7
▲ Mean	4.2	4.9	5.0	5.0	5.1	5.2	5.2	5.6	6.2	6.4	6.9	7.0	7.8	11.7	12.5	40.7
Lower CL	1.5	2.0	2.6	2.4	2.0	2.6	2.0	2.5	3.0	3.7	3.4	3.6	4.5	8.1	8.8	40.7

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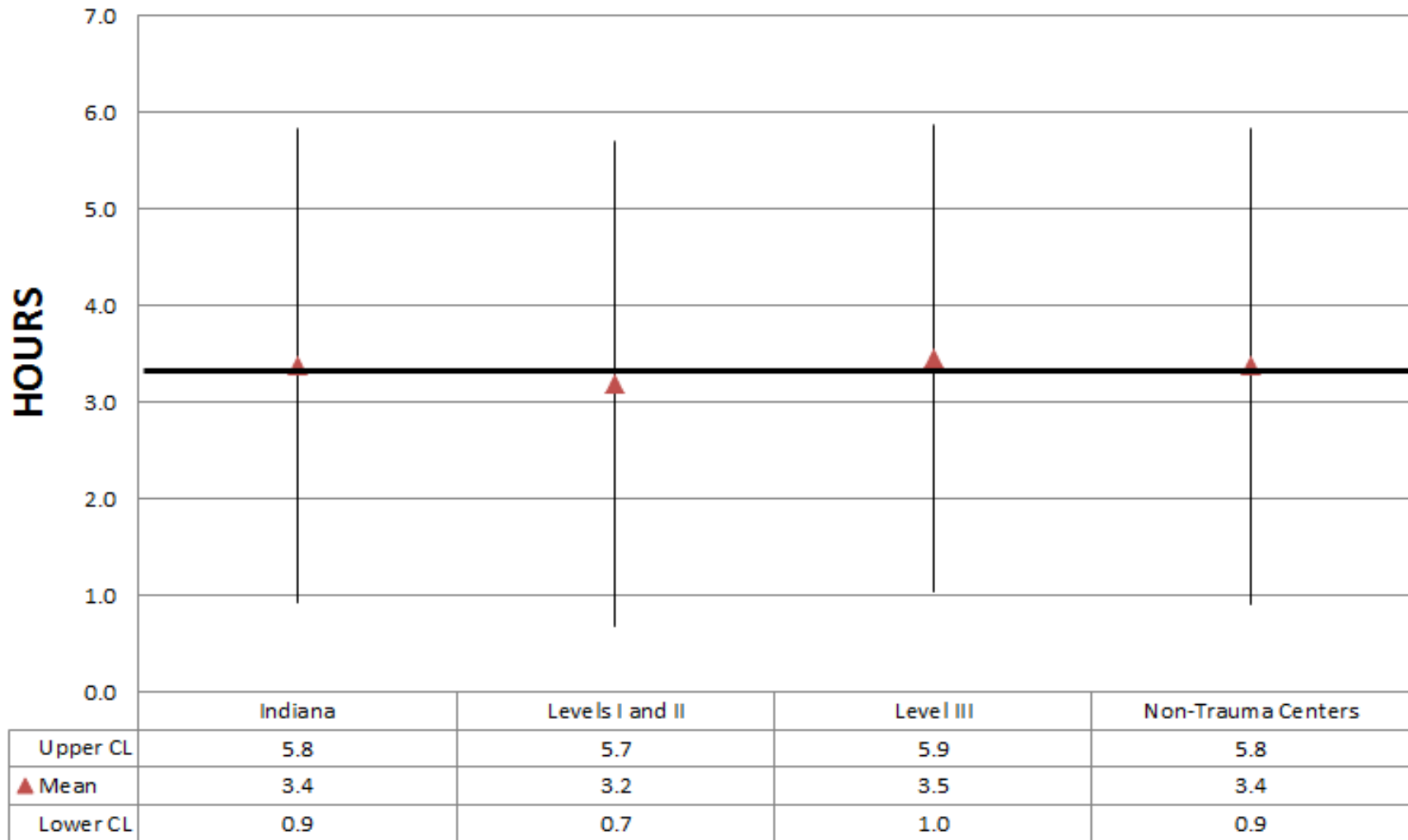
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ED Disposition = Transferred

Average ED LOS (Hours)



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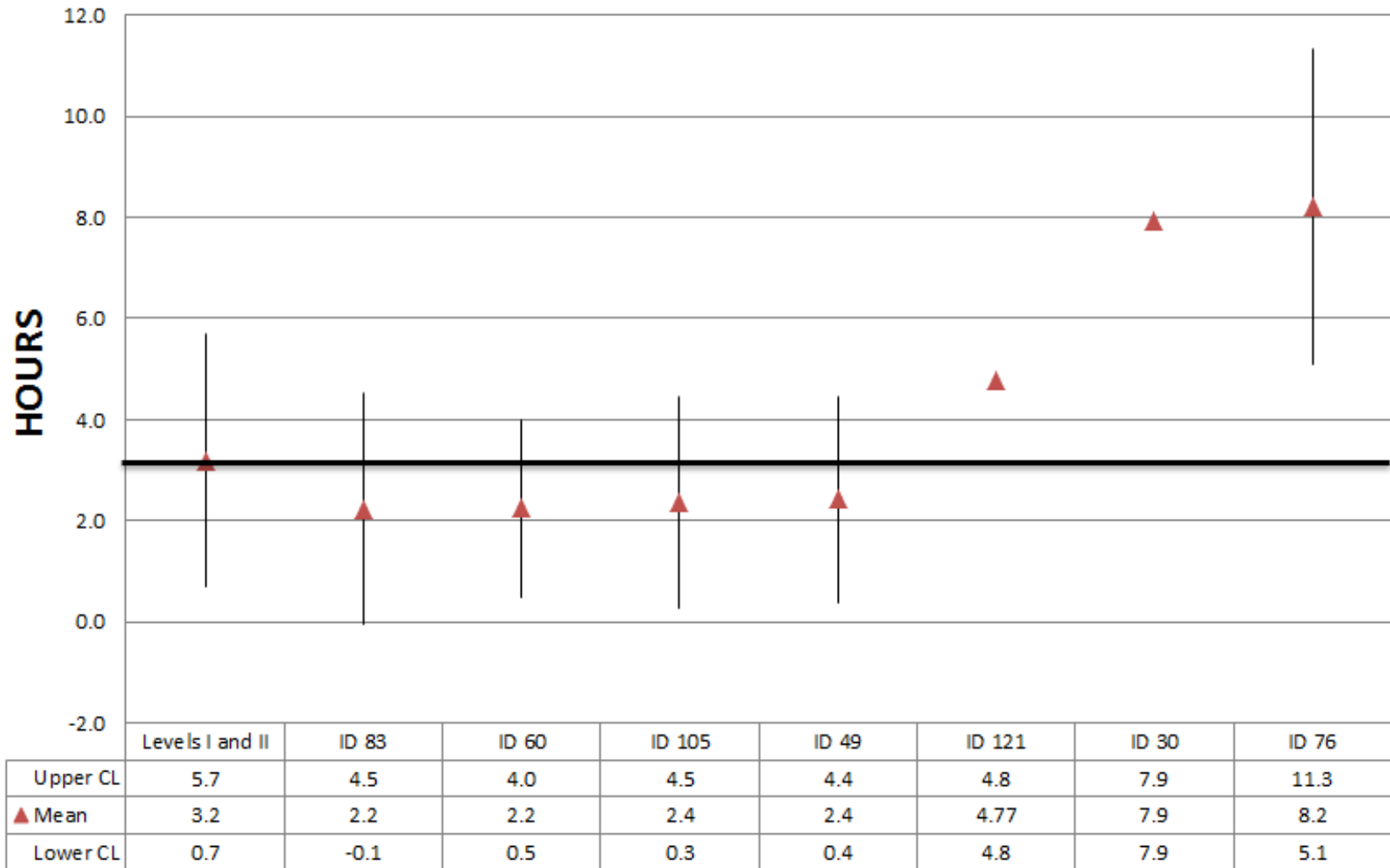
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Level I and II Trauma Centers- Average ED LOS (Hours)



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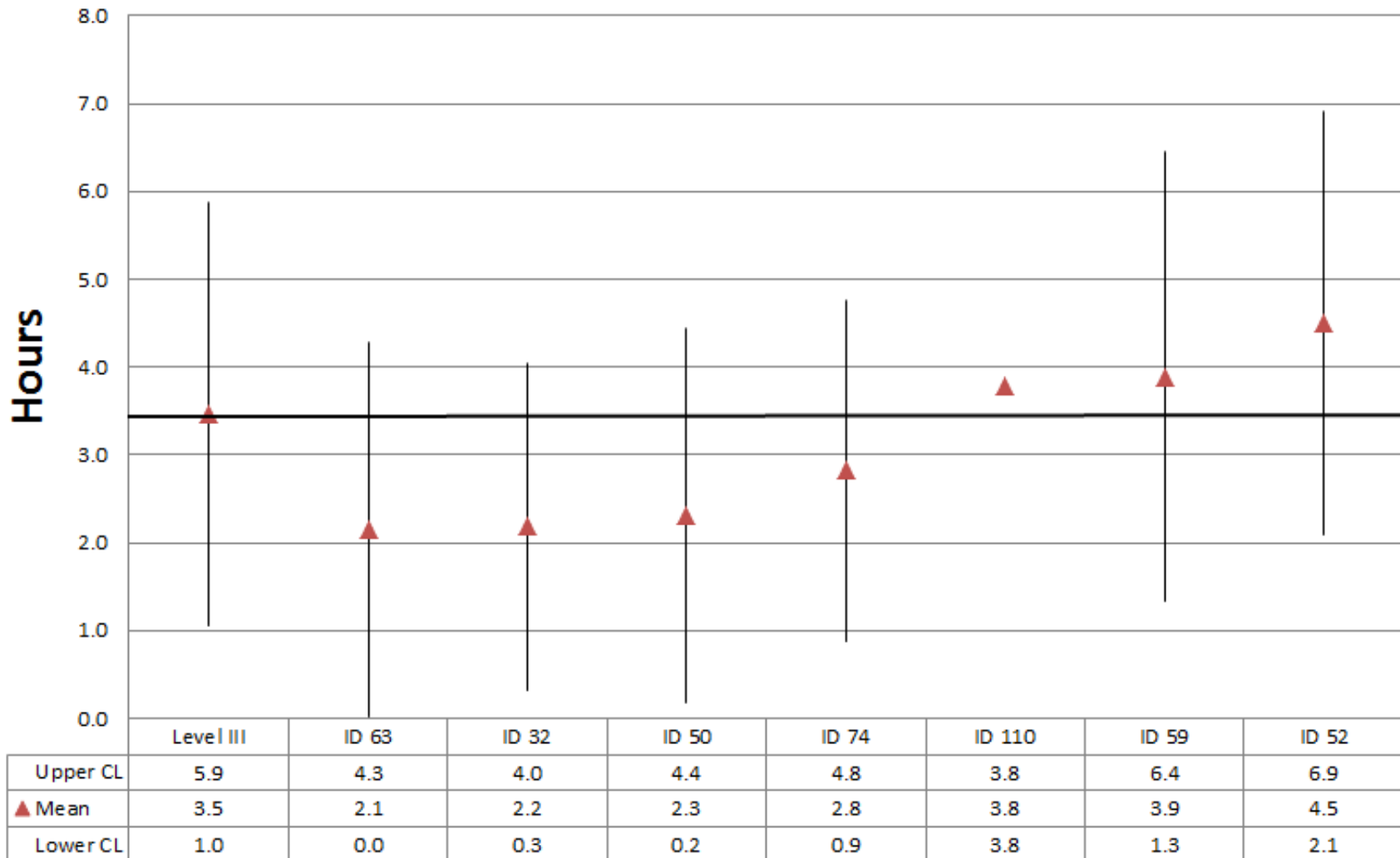
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Level III Trauma Centers- Average ED LOS (Hours)



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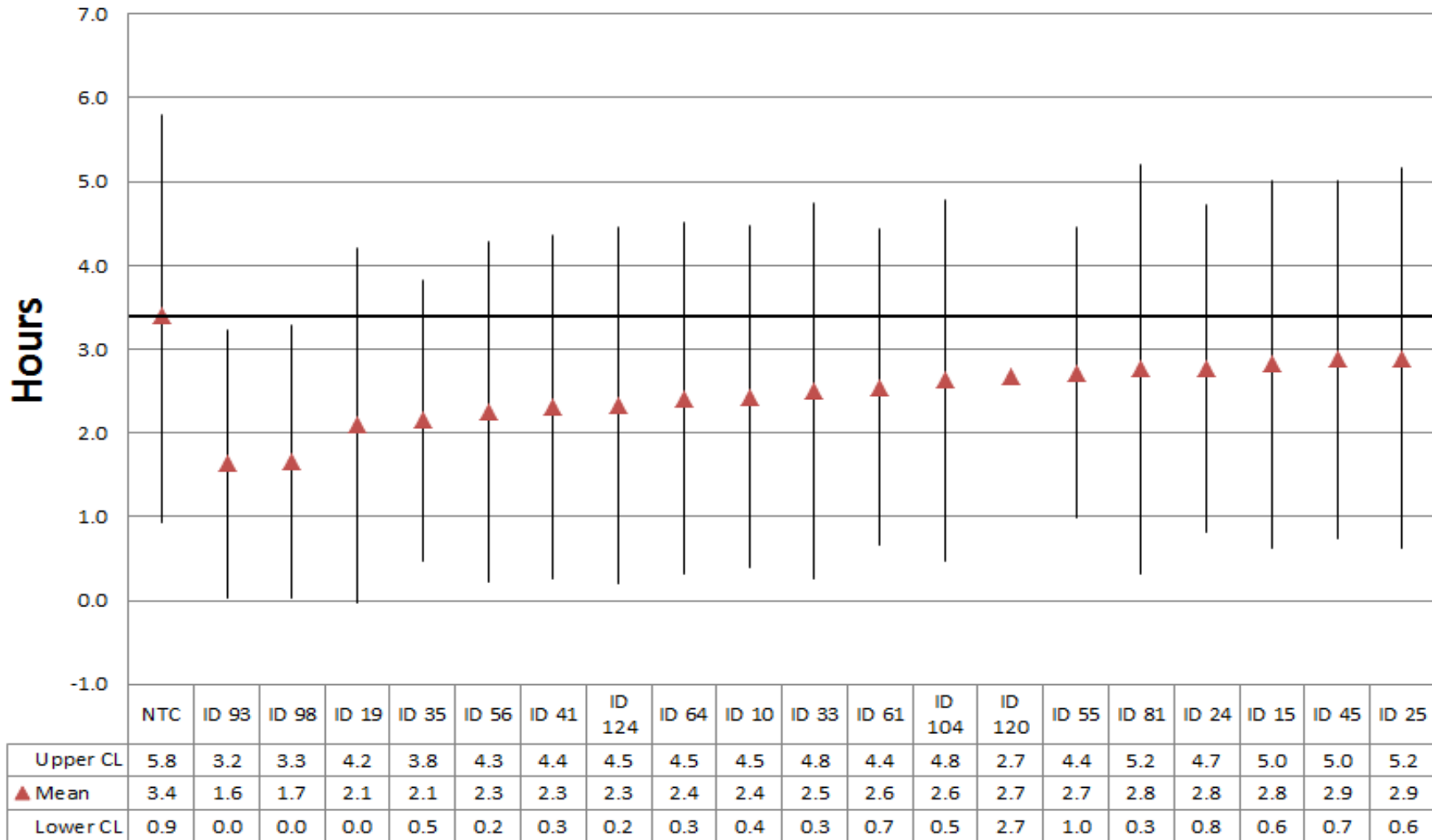
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**Non-Trauma Centers-
Average ED LOS (Hours)**



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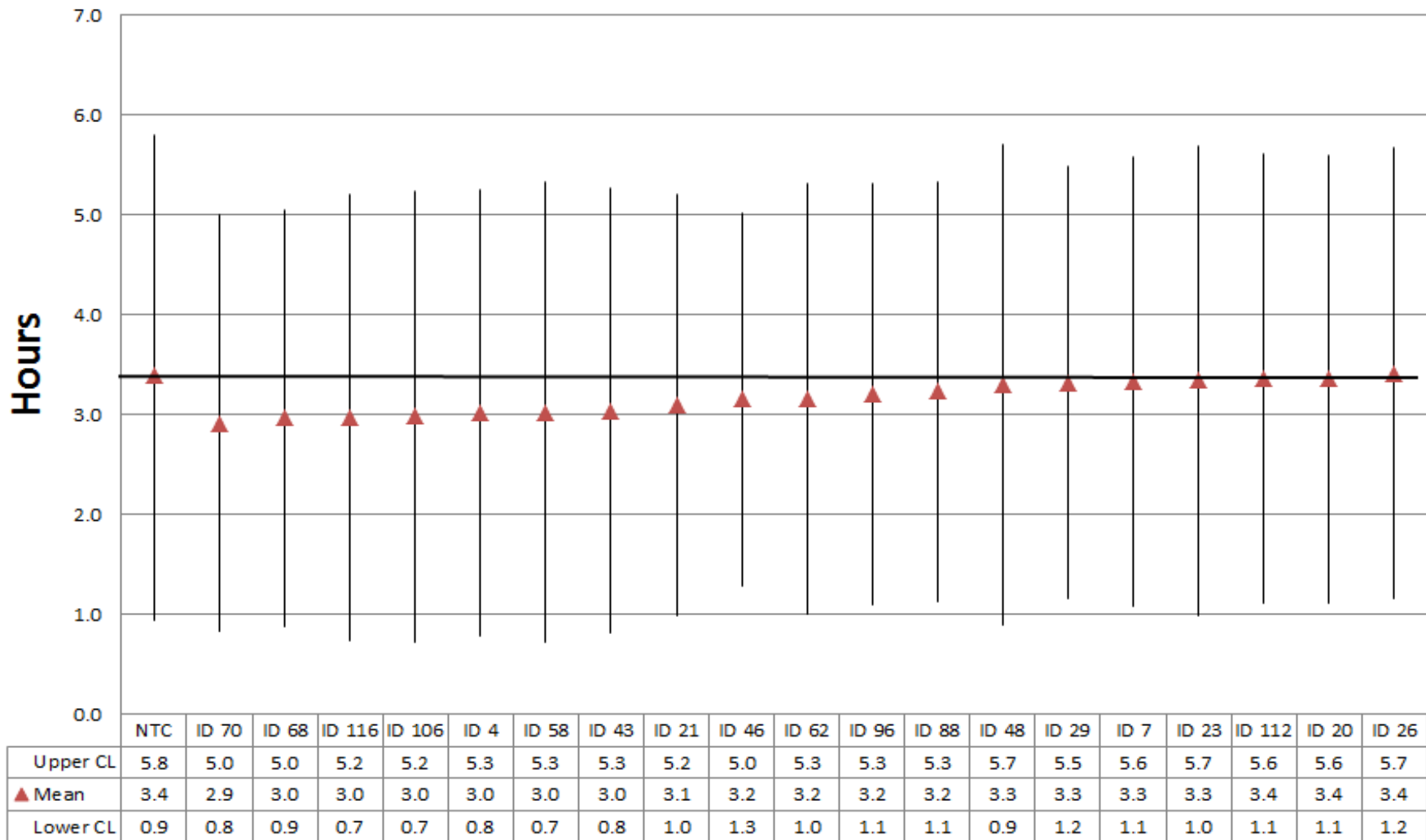
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**Non-Trauma Centers-
Average ED LOS (Hours)**



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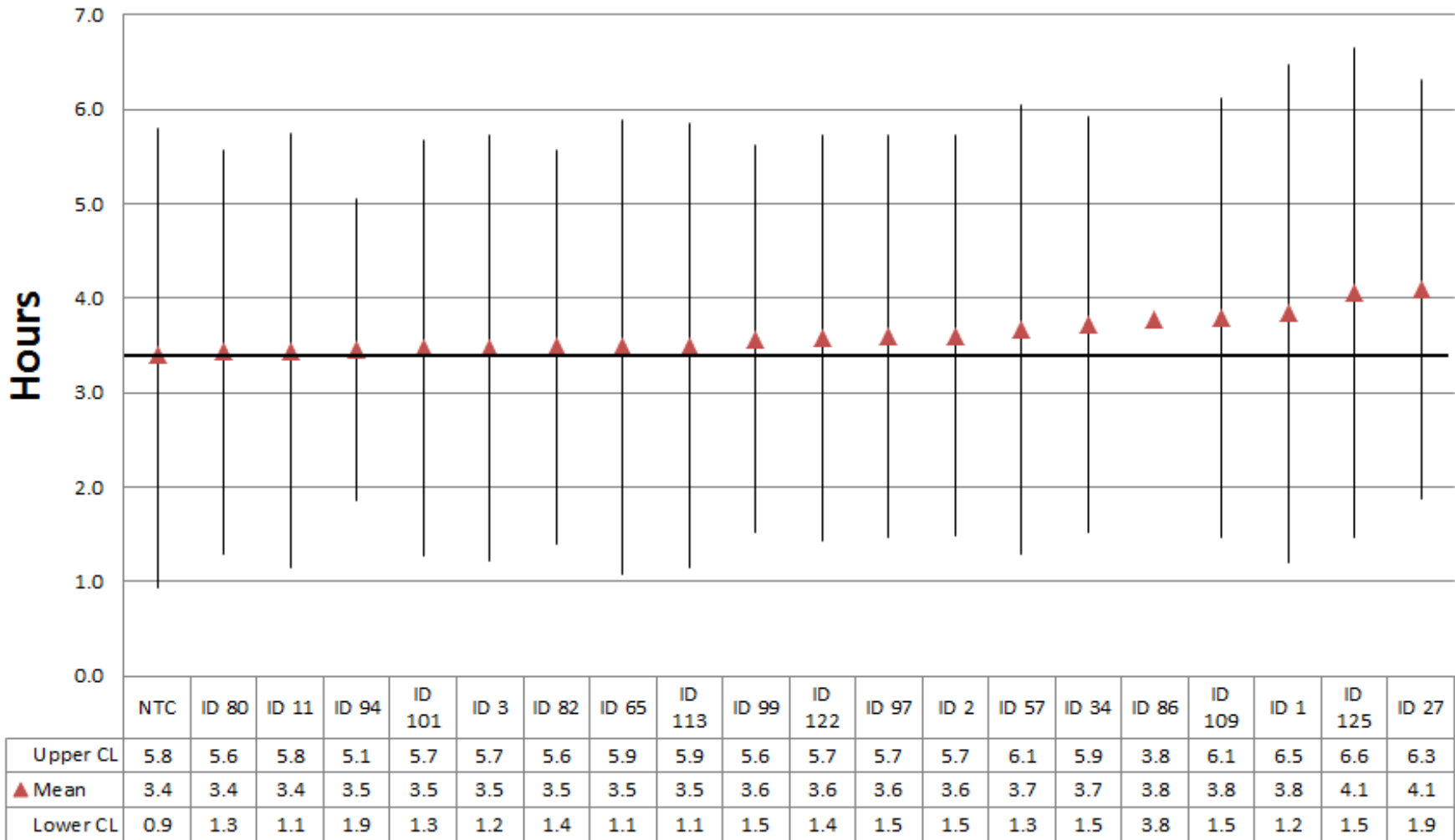
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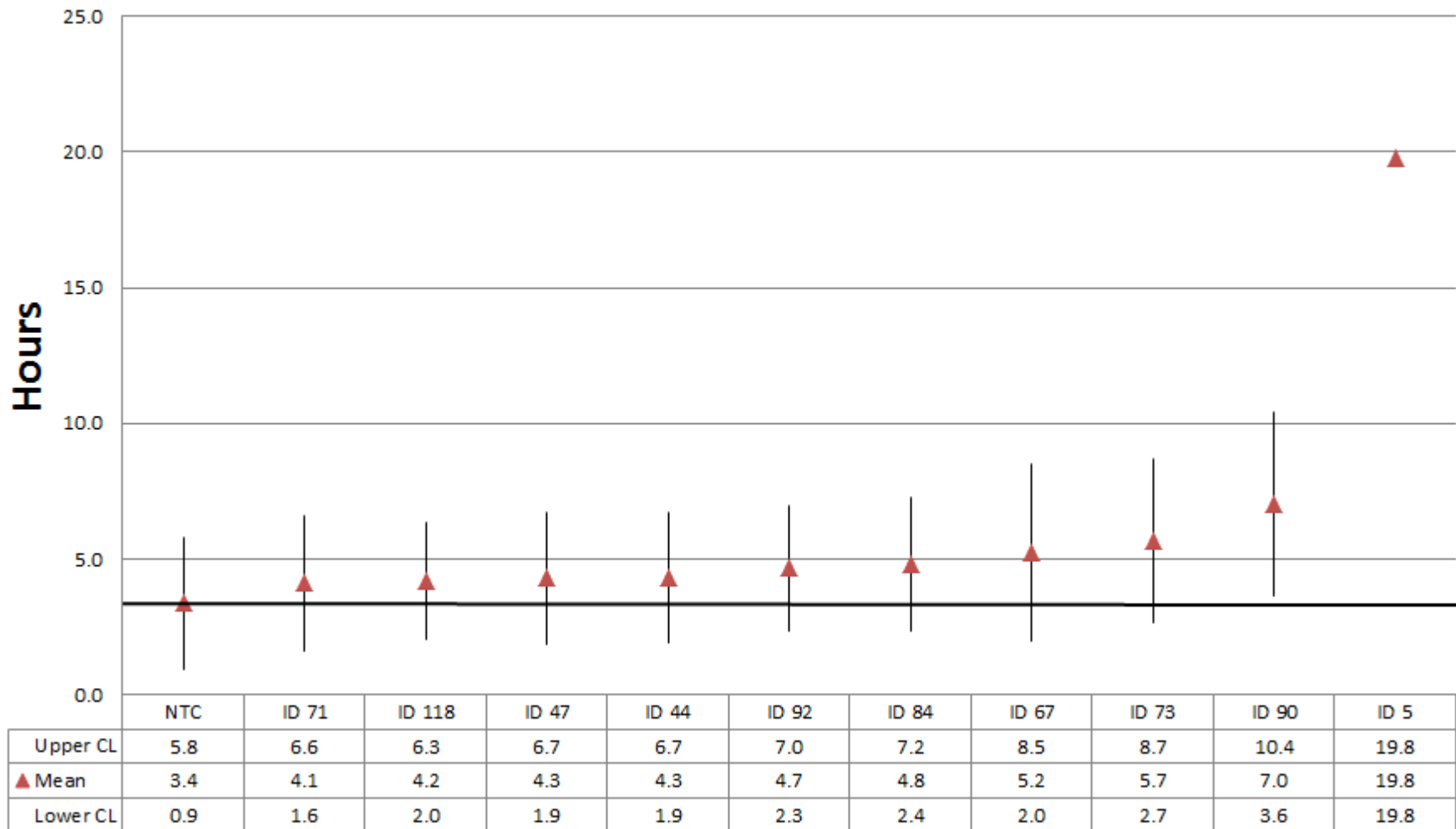
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**Non-Trauma Centers-
Average ED LOS (Hours)**



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ED Length of Stay

ED Length of Stay (minutes)				
	Indiana Average	Levels I and II	Level III	NTC
N=	6198	2599	835	2764
Average	241.2	229.3	251.9	249.2
Std. Deviation	176.1	163.3	168.9	188.8
Minimum	1	3	2	1
Quartile 1	143	126	155	154.5
Median	209	200	213	216
Quartile 3	292	287	411	293
Maximum	2444	1865	1684	2444

ED Disposition

ED Disposition (count)				
	Indiana	Levels I and II	Level III	NTC
Floor Bed	3404	1224	640	1540
ICU	792	633	58	101
Transferred	1299	22	168	1109
OR	468	308	56	104
Home w/o Services	139	94	22	23
Observation	320	172	93	55
Step-Down	318	125	30	163
Expired	40	14	5	21
AMA	4	3	0	1
Home W/ Services	3	0	0	3
Other	11	6	3	2
NK/NR/NA	252	120	55	77

*A bar graph of ED Disposition is found on page 2.

*A bar graph of ED Length of Stay is found on page 2.

*A Box and Whisker plot of ED LOS is found on page 5.

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ED Length of Stay by ISS

ED Length of Stay (minutes)								
ISS Category	Indiana Average	Indiana Average	Levels I and II	Levels I and II	Level III	Level III	Non-Trauma Centers	Non-Trauma Centers
	Counts	Minutes	Counts	Minutes	Counts	Minutes	Counts	Minutes
1-8	3171	253.5	1263	246.3	438	260.9	1470	257.5
9-15	2297	234.2	851	226.6	349	242.4	1097	237.4
16-24	388	221.7	283	208.9	31	258.9	74	255.3
25-44	231	176.6	185	167	11	191.6	35	222.4
45-74	15	114.2	14	112.3	1	141	0	-
75	2	170.5	2	170.5	0	-	0	-
No ISS	94	260.8	4	114	5	230.4	86	264.2

*A Box and Whisker plot of ED Length of Stay by ISS is found on page 5.

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ED Disposition (count) by ISS Category

	Floor Bed	ICU	Transferred	OR	Observation	NK/NR/NA	Step-Down	Home w/o Services	Expired	Other	AMA	Home w/ Services	Total
1-8	1745	236	705	229	226	112	155	130	14	7	4	3	3566
9-15	1450	251	452	133	72	100	127	6	12	2	0	0	2605
16-24	77	165	66	44	15	6	29	1	3	0	0	0	406
25-44	18	130	28	47	1	5	4	0	11	0	0	0	244
45-74	0	4	2	9	0	0	1	0	0	0	0	0	16
75	0	2	0	0	0	1	0	0	0	0	0	0	3
NO ISS	114	4	46	6	6	28	2	2	0	0	2	0	210
Total	3404	792	1299	468	320	252	318	139	40	9	6	3	7050

*Bar graph of ED Disposition by ISS is found on page 25.

Indiana State Department of Health Indiana Trauma Registry

Hospitals Reporting Trauma Data
Quarter 1, 2015
January 1 - March 31, 2015

I II Level I and II Trauma Centers

Deaconess Hospital
Eskenazi Health
IU Health - Methodist Hospital
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

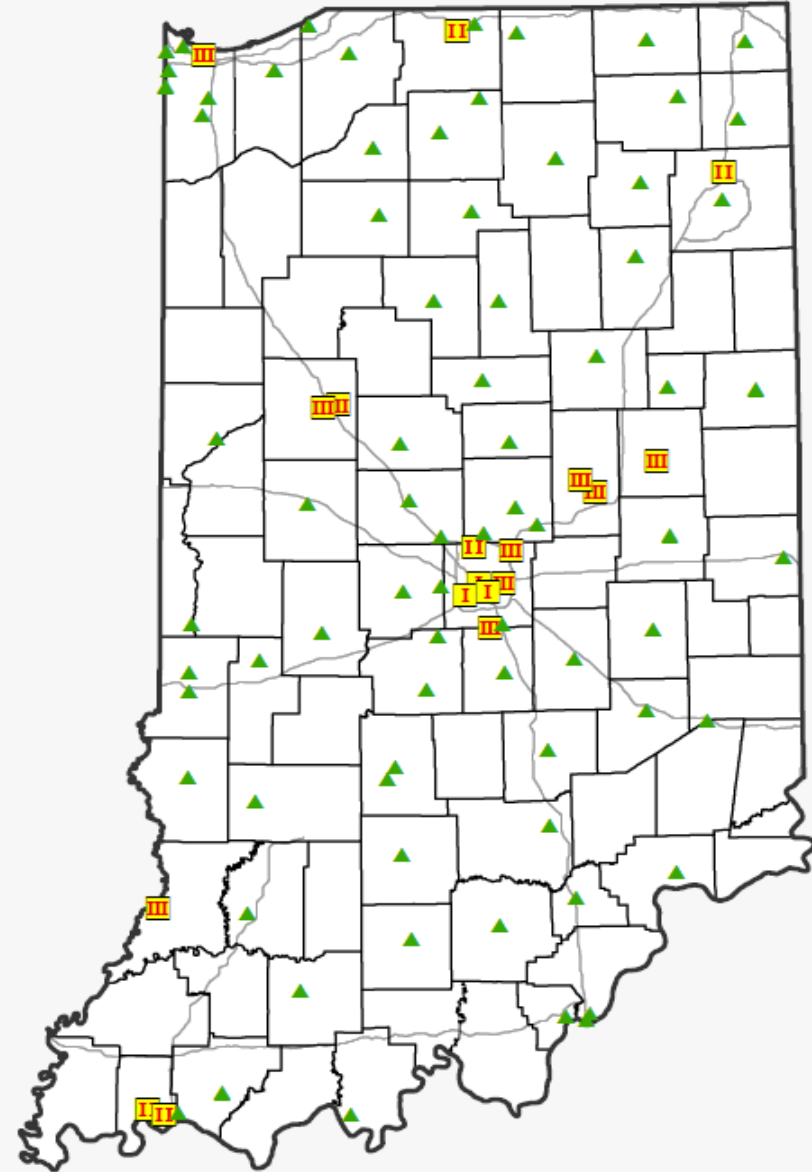
III Level III Trauma Centers

Community Hospital of Anderson
Community Hospital - East
Community Hospital - North
Community Hospital - South
Franciscan St. Elizabeth East Hospital
Good Samaritan Hospital
IU Health - Arnett Hospital
IU Health - Ball Memorial Hospital
Methodist Hospital - Northlake Campus
St. Vincent Anderson Regional Hospital

▲ Non-Trauma Hospitals

76 Non-Trauma Hospitals

Hospital categories include Verified and "In the Process" Trauma Centers



Map Author: ISDH ERC PHG and ISDH Trauma & Injury Prevention - July 2015

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General Report:

- The caterpillar plots with the anonymous ID's for all patients per hospital may be found on pages 33-39.
- The caterpillar plots with the anonymous ID's for transferred patients per hospital may be found on pages 40-46.
- Reference tables now accompany the graphs for demographic data on pages 29-32.