

# Finger Lakes Region

Trauma Registry Regional Progress Report 2010-2013

New York State Department of Health

Office of Primary Care and Health Systems Management

May, 2016

## Table of Contents

### Executive Summary

### Patient Information

- Summary Statistics
- Mechanism of Injury

### Emergency Medical Services

- Response Times
- Transport Times
- Initial Destination

### Referring Hospital Statistics

- Time at Referring Hospital

### Trauma Center Statistics

- Length of Stay
- Complications
- Initial Wait Time
- Discharge Disposition

### Performance Benchmarks

- Risk Ratios
- Risk Adjusted Fatality Rates

### Injury Statistics

- Characteristics of Injury Incidence
- Emergency Department Visits
- Hospitalizations
- Deaths

## Executive Summary

### Introduction

The purpose of this report is to present summary statistics of trauma-related injuries and outcomes of the care provided in each of the eight trauma regions in the State. For the years 2010-2013 there were a total of 40 trauma centers designated in New York State. Trauma clinicians, administrators and policy makers may use this report to identify important areas and issues for enhancing systems development and clinical quality improvement in their regions. The public may use this report to learn more about the trauma system in their region. As trauma centers in New York State transition to the standards of the American College of Surgeons Committee on Trauma, and additional levels of trauma center are added to the State system, this report will serve as a baseline for measuring improvements in outcome and injury prevention in each region.

### Data Sources

The New York State Trauma Registry serves as the data source. Trauma patients identified as residents of the Finger Lakes Region were included.

### Acknowledgement

The State Health Department would like to thank: the New York Trauma Center program staff and the Bureau of Emergency Medical Services and Trauma Systems program manager of the Office of Primary Care and Health Systems Management who have worked diligently to provide the data utilized in this report, the NYSDOH Bureau of Occupational Health and Injury Prevention for the injury statistics, and the Data Management, Analysis and Research Group who created the trauma registry and performed the statistical analyses to generate the tables and figures presented in this report.

### Data Summary

This report summarizes the trauma cases for residents of the Finger Lakes Region for the discharge years 2010-2013, who were included in the New York State Trauma Registry. There were a total of 4,352 trauma cases amongst the residents of the Finger Lakes Region. The key findings include the following:

- ▶ Annually, there were an average of 1,088 trauma incidents with a 7.63% case fatality rate.
- ▶ The median EMS response time was 8 minutes.
- ▶ The median transport time to an appropriate trauma center was 19 minutes, for adults, and 22 minutes, for children under 15 years of age.
- ▶ 50% of pediatric trauma patients were transported to an appropriately designated center.
- ▶ The median time at a referring hospital prior to transport to a trauma center for patients with an injury severity score of  $\geq 25$  was 2.3 hours.
- ▶ The median length of stay for surviving patients with an injury severity score of  $\geq 25$  was 11.1 days.
- ▶ The median time in the emergency department for patients with an injury severity score of  $\geq 25$  was 2.3 hours.
- ▶ The risk ratio,  $\frac{\text{observed fatality rate}}{\text{expected fatality rate}}$ , for all trauma from the Finger Lakes Region was 0.91. (State average is 1)



## Finger Lakes Region (FLR) Incident Summary (with comparison to state)

Categories	Finger Lakes Region		Incidence*		Case Fatality Rate**	
	Incidents	Fatalities	FLR	State	FLR	State
<b>Year</b>						
2010	1,079	82	8.44	9.05	7.60	6.39
2011	1,110	95	8.66	8.73	8.56	6.79
2012	1,127	83	8.79	8.59	7.36	6.77
2013	1,036	72	8.08	8.16	6.95	6.58
<b>Age</b>						
0-5	188	5	5.33	5.38	2.66	2.14
6-13	174	4	3.41	3.06	2.30	1.73
14-34	1,281	94	9.02	8.06	7.34	4.96
35-64	1,558	100	7.54	7.17	6.42	5.28
65+	1,151	129	16.04	21.13	11.21	10.63
<b>Sex</b>						
Male	2,918	247	11.65	11.72	8.46	6.80
Female	1,434	85	5.47	5.72	5.93	6.31
<b>ISS</b>						
0-9	1,288	22	2.51	3.07	1.71	1.77
10-15	664	5	1.30	1.83	0.75	1.86
16-24	1,137	53	2.22	2.23	4.66	4.44
25-34	598	124	1.17	0.89	20.74	25.31
35-75	261	105	0.51	0.31	40.23	45.37
NA	404	23	0.79	0.29	5.69	6.73
<b>Four Year Total</b>						
All Trauma	4,352	332	8.49	8.63	7.63	6.63

\* Incidents per 10,000 residents

\*\* Case Fatality Rate as a percent



## Finger Lakes Region (FLR) Regional Incident Classification (with comparison to state)

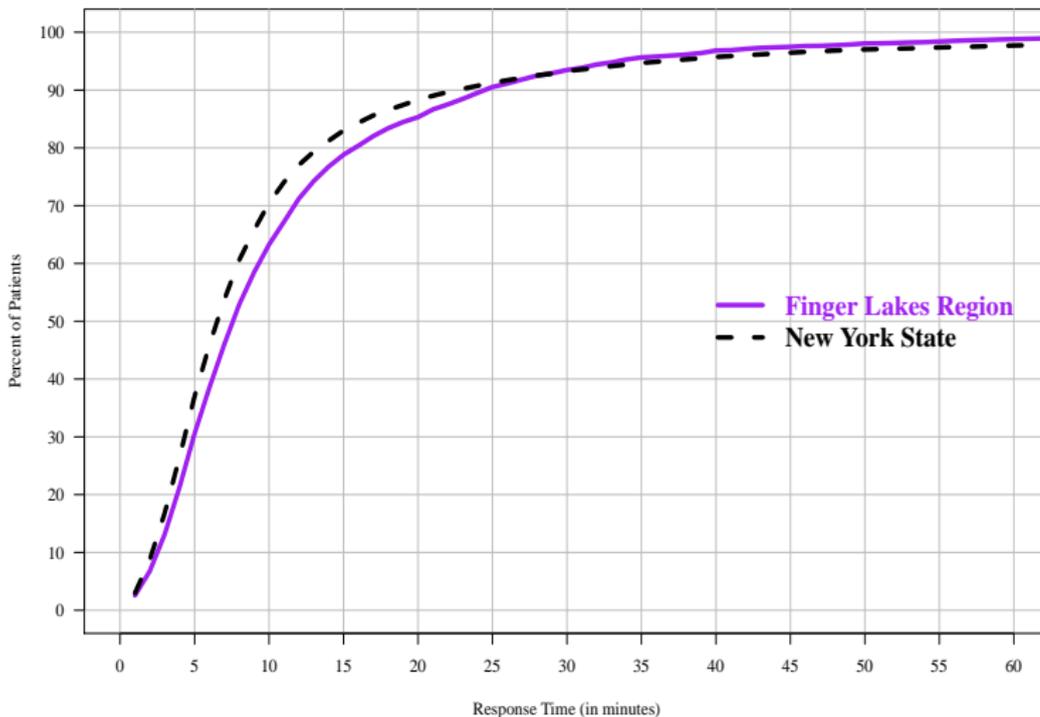
Category	Finger Lakes Region		Incidence*		Case Fatality Rate**	
	Incidents	Fatalities	FLR	State	FLR	State
<b>Selected Mechanism of Injury</b>						
Motor Vehicle Traffic	1,503	123	2.93	2.47	8.18	6.67
Fall	1,495	99	2.92	3.67	6.62	7.33
Firearm	285	66	0.56	0.38	23.16	14.02
Transport, non traffic	257	8	0.50	0.28	3.11	3.16
Struck by, against	235	8	0.46	0.55	3.40	2.07
<b>Intention of Injury</b>						
Unintentional	3,531	239	6.89	6.99	6.77	6.60
Undetermined/Other	392	53	0.77	0.54	13.52	6.45
Assault	382	52	0.75	1.02	13.61	5.87
Self-Inflicted	47	18	0.09	0.08	38.30	19.88
<b>Type of Injury</b>						
Blunt	3,603	240	7.03	7.18	6.66	6.41
Other	452	26	0.88	0.82	5.75	6.15
Penetrating	297	66	0.58	0.63	22.22	9.79
<b>Four Year Total</b>						
All Trauma	4,352	332	8.49	8.63	7.63	6.63

\* Incidents per 10,000 residents

\*\* Case Fatality Rate as a percent



## Emergency Medical Service Response Time\*

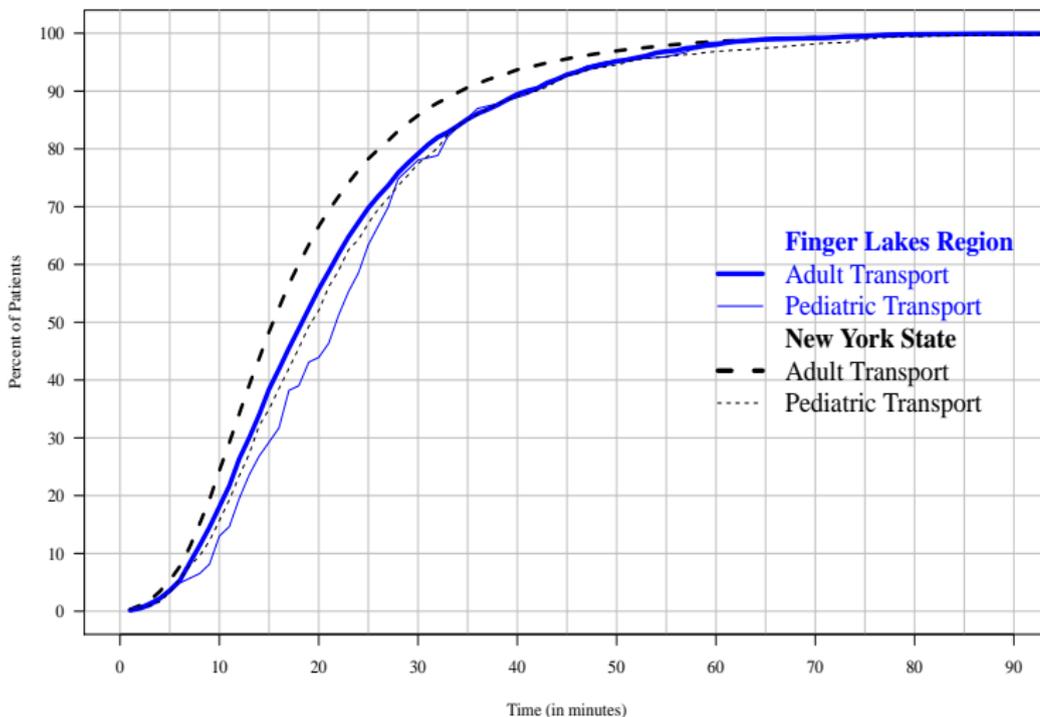


This plot shows the percent of incidents responded to by EMS within a given time period.

\*Response time is calculated as the time from emergency phone call to medical service's arrival at scene.



## Emergency Medical Service Transport Time\* to Patient Appropriate Trauma Center\*\*



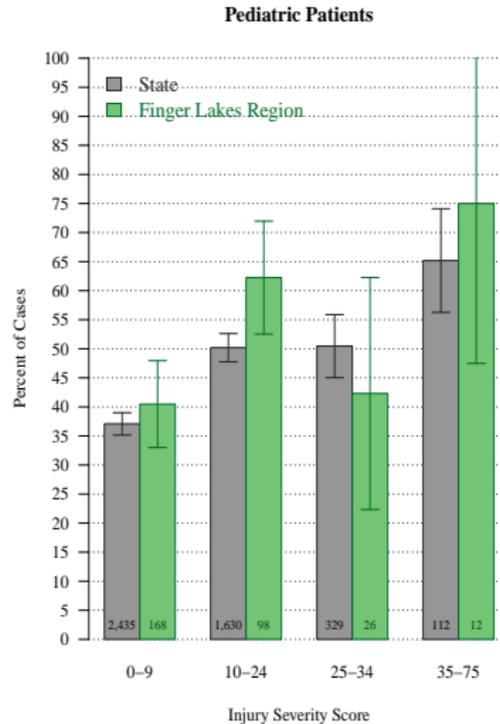
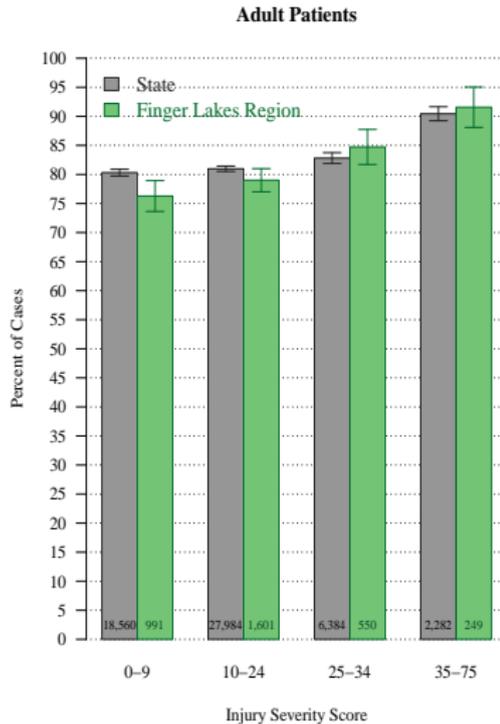
This plot shows the percent of trauma patients transported to an appropriate center within a given time period.

\*Transport time is calculated as time from emergency medical service's departure from the scene of injury to arrival at hospital.

\*\*Patient appropriate trauma center means either pediatric or dual designated for patients under 15 and either adult or dual designation for patients over 15 years of age.

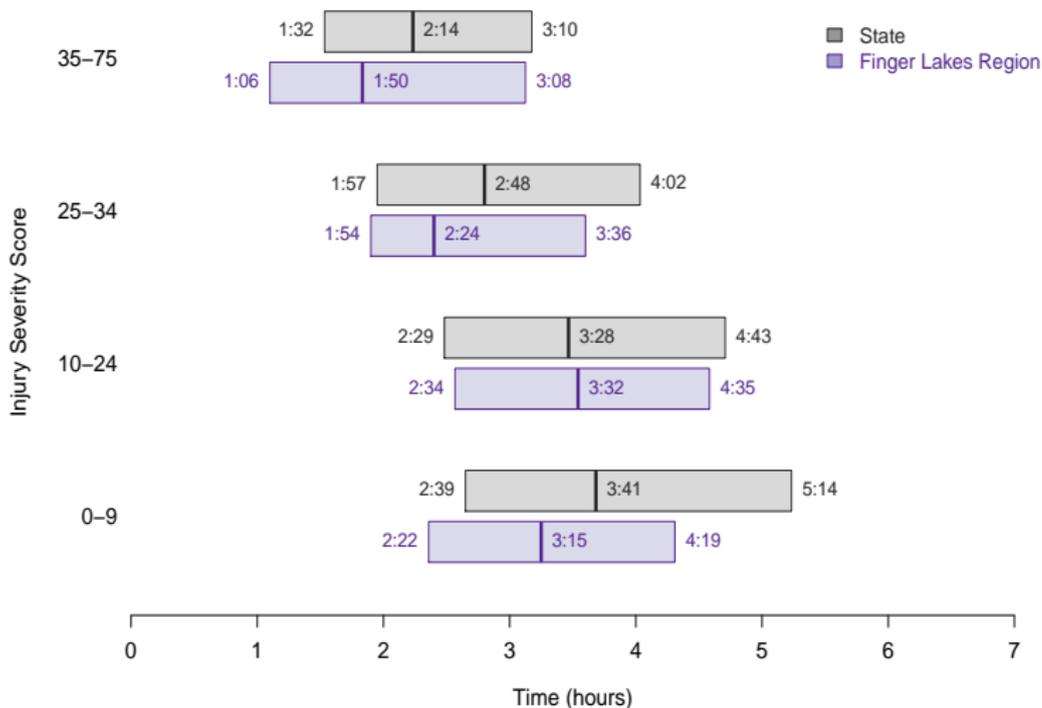


Patients Transported by EMS to an Appropriate Trauma Center by Designation and Injury Severity Score



Registry data only includes data from patients that made it to a Trauma Center. Walk-ins excluded. 95% confidence intervals are shown around means.  
 Appropriate trauma center means either pediatric or dual designated for patients under 15 and either adult or dual designated for patients over 15 years of age.

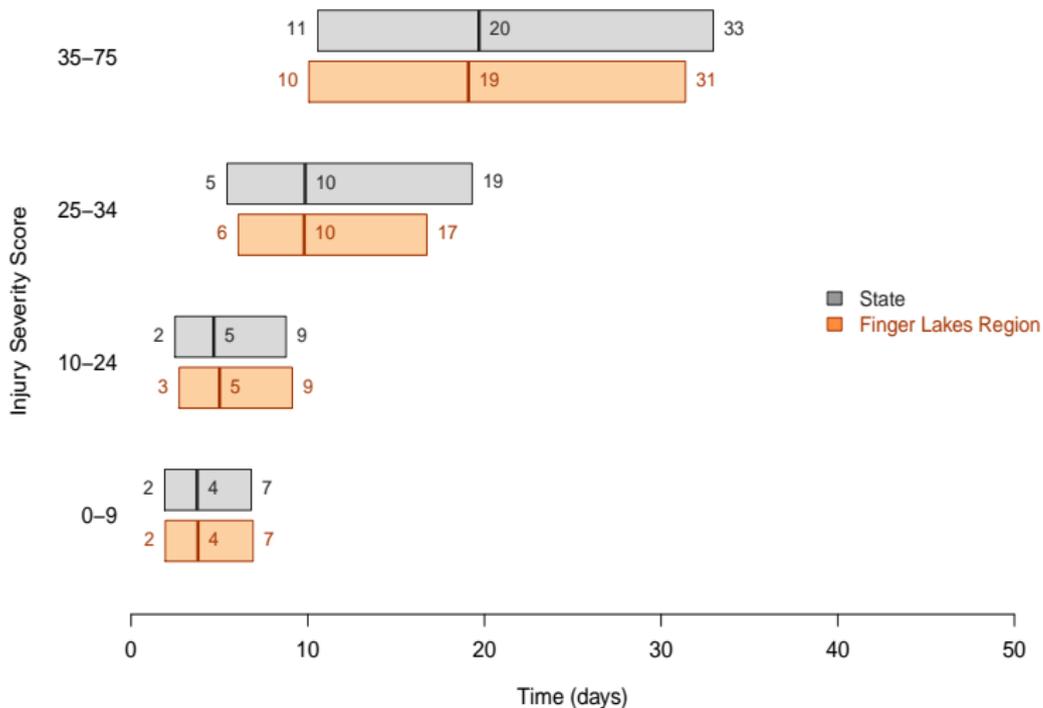
### Quartile Plot of Time at Referring Hospital by Injury Severity Score (for patients who were referred to a trauma center)



The quartile plot highlights the middle 50% of patients with the box. The center line denotes the median (the 50<sup>th</sup> percentile), 25% of patients therefore fall below the range of the box, and 25% fall above the range of the box.



### Quartile Plot of Length of Stay by Injury Severity Score (for patients who lived)

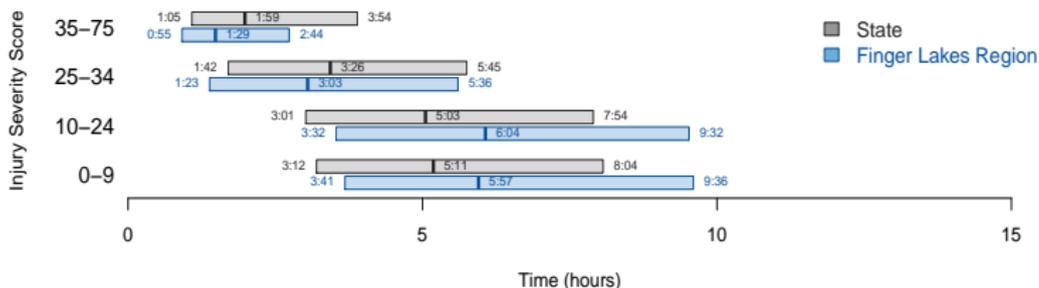


The quartile plot highlights the middle 50% of patients with the box. The center line denotes the median (the 50<sup>th</sup> percentile), 25% of patients therefore fall below the range of the box, and 25% fall above the range of the box.

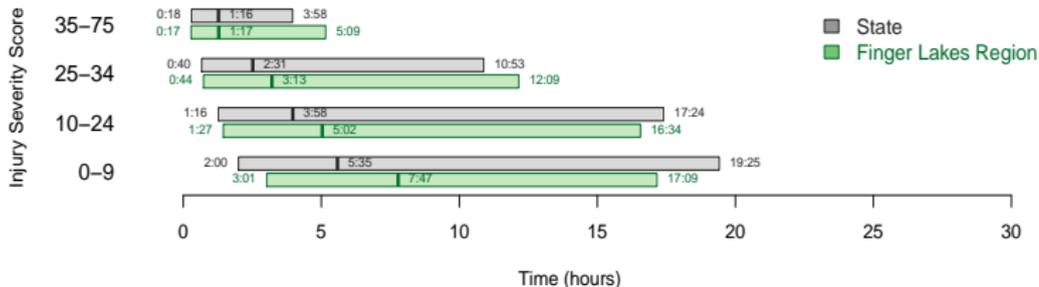
## Finger Lakes Region (FLR) Complication Incidence and Mortality

Complications	Finger Lakes Region		Frequency (%)		Fatality Rate (%)	
	Incidents	Fatalities	FLR	State	FLR	State
withdrawal from alcohol or drugs	91	1	2.09	0.94	1.1	2.8
deep vein thrombosis	58	4	1.33	0.83	6.9	9.5
pneumonia	58	11	1.33	2.71	19.0	16.5
unplanned intubation	44	3	1.01	0.62	6.8	28.9
unplanned return to ICU	37	3	0.85	0.13	8.1	12.8
cardiac arrest in hospital	32	20	0.74	0.88	62.5	82.7
pulmonary embolism	24	1	0.55	0.35	4.2	13.5
extremity compartment syndrome	18	3	0.41	0.31	16.7	4.8
other unspecified	18	4	0.41	4.31	22.2	18.4
new urinary tract infection	17	1	0.39	1.96	5.9	8.2
acute kidney injury	14	8	0.32	0.89	57.1	28.1
new decubitus ulcer	10	0	0.23	0.69	0.0	13.4
severe sepsis	9	2	0.21	0.93	22.2	33.3
new stroke or cerebral vascular accident	8	1	0.18	0.14	12.5	18.6
acute lung injury	7	2	0.16	2.25	28.6	24.0
new myocardial infarction	4	3	0.09	0.24	75.0	33.3
deep surgical site infection	3	0	0.07	0.13	0.0	7.8
superficial surgical site infection	2	0	0.05	0.19	0.0	2.3
catheter related blood stream infection	1	0	0.02	0.10	0.0	14.3
organ or space surgical site infection	1	0	0.02	0.11	0.0	4.0
failure of graft, flap, or prosthesis	0	0	0.00	0.03	0.0	0.0
new bone infection	0	0	0.00	0.03	0.0	0.0

### Quartile Plot of Time In Emergency Department by Injury Severity Score

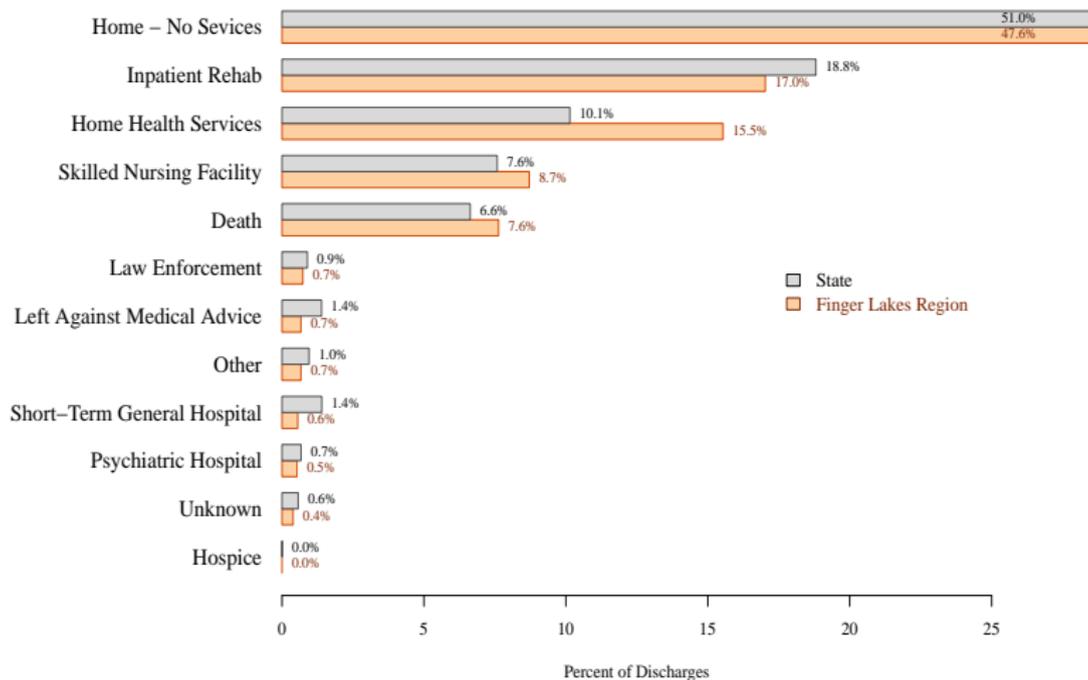


### Quartile Plot of Time Until First Procedure by Injury Severity Score



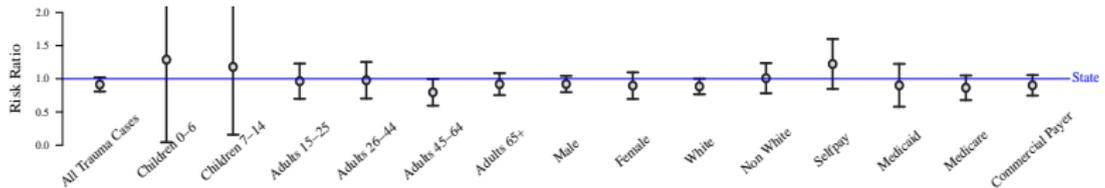
The quartile plot highlights the middle 50% of patients with the box. The center line denotes the median (the 50<sup>th</sup> percentile), 25% of patients therefore fall below the range of the box, and 25% fall above the range of the box.

## Discharge Destination

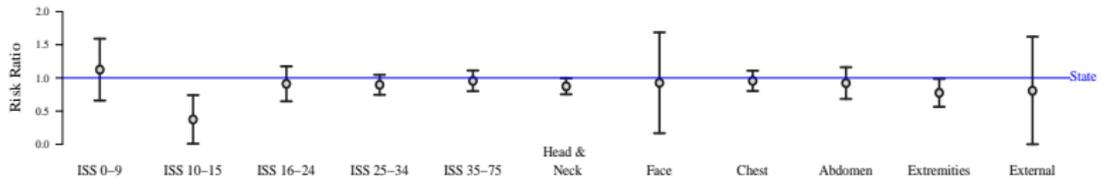


Note that axis margin cuts off full length of discharged to home bar.

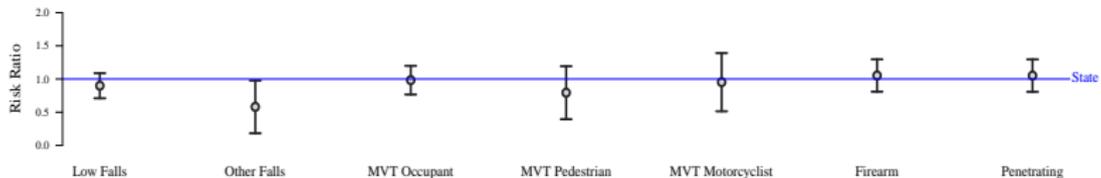
### Risk by Patient Characteristics



### Risk by Severity and Location of Injury



### Risk by Type of Trauma



$$\text{Risk Ratio} = \frac{\text{observed fatality rate}}{\text{expected fatality rate}}$$

Expected rate is estimated using a multivariate logistic regression adjusting for risk factors: age, gender, injury severity, injury body region, injury type, Glasgow coma motor score, systolic blood pressure, mechanism of trauma, prehospital care, and existing comorbidities.

## Finger Lakes Region Regional Risk Adjusted Fatality Rates

Categories	Finger Lakes Region Region (FLR)			Comparison*		
	N	Observed	Expected	Risk Ratio	State	FLR
<b>Overall</b>						
All Trauma Cases	3,445	7.8%	8.5%	0.9 ±0.1	6.6%	6.0%
<b>Age</b>						
Children 0-6	107	3.7%	2.9%	1.3 ±1.2	2.3%	3.0%
Children 7-14	167	3.0%	2.5%	1.2 ±1	2.1%	2.5%
Adults 15-25	617	7.6%	7.9%	1.0 ±0.3	4.7%	4.5%
Adults 26-44	641	7.0%	7.2%	1.0 ±0.3	4.6%	4.5%
Adults 45-64	879	6.4%	8.0%	0.8 ±0.2	5.5%	4.4%
Adults 65+	952	11.0%	12.0%	0.9 ±0.2	10.6%	9.8%
<b>Gender</b>						
Male	2,247	8.7%	9.4%	0.9 ±0.1	6.8%	6.2%
Female	1,198	6.0%	6.7%	0.9 ±0.2	6.2%	5.5%
<b>Race</b>						
White	2,808	7.1%	8.0%	0.9 ±0.1	6.9%	6.1%
Non White	637	10.7%	10.6%	1.0 ±0.2	5.9%	6.0%
<b>Primary Payor</b>						
Selfpay	241	14.5%	11.9%	1.2 ±0.4	10.0%	12.3%
Medicaid	399	7.0%	7.8%	0.9 ±0.3	4.0%	3.6%
Medicare	773	9.8%	11.4%	0.9 ±0.2	9.8%	8.5%
Commercial Payer	1,848	6.7%	7.4%	0.9 ±0.2	5.2%	4.7%

State comparison is risk adjusted. N values reflect data available for accurate risk adjustment (not regional totals). Risk ratio quotes a 95% confidence interval.



## Finger Lakes Region Regional Risk Adjusted Fatality Rates

Categories	Finger Lakes Region Region (FLR)				Comparison*	
	N	Observed	Expected	Risk Ratio	State	FLR
<b>Injury Severity Score (ISS)</b>						
ISS 0-9	1,079	2.0%	1.8%	1.1 ±0.5	1.8%	2.0%
ISS 10-15	584	0.7%	1.8%	0.4 ±0.4	1.8%	0.7%
ISS 16-24	1,022	4.3%	4.7%	0.9 ±0.3	4.3%	3.9%
ISS 25-34	528	20.5%	22.8%	0.9 ±0.2	25.2%	22.6%
ISS 35-75	232	38.4%	40.2%	1.0 ±0.2	44.6%	42.6%
<b>Location of Injury</b>						
Head & Neck	1,351	13.0%	14.9%	0.9 ±0.1	10.5%	9.2%
Face	33	15.2%	16.4%	0.9 ±0.8	15.0%	13.9%
Chest	1,353	9.9%	10.4%	1.0 ±0.2	8.6%	8.2%
Abdomen	428	11.9%	12.9%	0.9 ±0.2	10.5%	9.7%
Extremities	853	5.7%	7.4%	0.8 ±0.2	5.7%	4.4%
External	11	27.3%	33.8%	0.8 ±0.8	33.6%	27.1%
<b>Falls</b>						
Low Falls	1,006	8.0%	8.8%	0.9 ±0.2	8.0%	7.2%
Other Falls	291	2.7%	4.7%	0.6 ±0.4	3.8%	2.2%
<b>Motor Vehical Traffic (MVT)</b>						
MVT Occupant	866	8.4%	8.6%	1.0 ±0.2	5.7%	5.6%
MVT Pedestrian	167	8.4%	10.6%	0.8 ±0.4	9.9%	7.9%
MVT Motorcyclist	261	6.5%	6.8%	1.0 ±0.4	5.2%	5.0%
<b>Other</b>						
Firearm	250	22.4%	21.3%	1.1 ±0.2	12.8%	13.5%
Penetrating	260	21.5%	20.5%	1.1 ±0.2	9.1%	9.6%

State comparison is risk adjusted. N values reflect data available for accurate risk adjustment (not regional totals). Risk ratio quotes a 95% confidence interval.



## Characteristics of Injury Incidence

### Deaths, Hospitalizations, and Emergency Department<sup>†</sup> (ED) Visits Finger Lakes Region Residents, 2010-2012

	Deaths		Hospitalizations		ED Visits	
	Mean Annual Frequency	Rate per 100,000 Residents	Mean Annual Frequency	Rate per 100,000 Residents	Mean Annual Frequency	Rate per 100,000 Residents
<b>Total</b>	635	49.9	10,419	819.3	99,726	7,841.5
<b>Age Group</b>						
0<1	4	29.2**	55	400.9	870	6,343.8
1-4	4	6.9**	181	312.9	6,421	11,079.6
5-9	*	*	119	159.1	5,519	7,400.3
10-14	7	9.1	170	212.3	7,668	9,559.2
15-19	24	25.9	428	455.6	9,998	10,651.3
20-24	43	45.4	475	501.7	10,312	10,891.3
25-44	142	46.5	1,585	518.5	26,365	8,626.2
45-64	178	49.2	2,416	667.6	20,262	5,598.2
65+	231	121.9	4,990	2,638	12,310	6,507.2
<b>Gender</b>						
Male	417	67.1	4,780	773.6	51,692	8,311.8
Female	217	33.4	5,639	874.2	48,028	7,390.5
Unknown	n/a	n/a	0	n/a	6	n/a
<b>Percent Traumatic Brain Injury</b>	27%		9%		9%	
<b>Mean Charge per Hospitalization or ED Visit</b>	n/a		\$20,397		\$1,501	
<b>Mean One Year Total Hospitalization or ED Visit Charges</b>	n/a		\$212,518,813		\$149,735,067	
<b>Three Year Total Hospitalization or ED Visit Charges</b>	n/a		\$637,556,439		\$449,205,202	
<b>Average Length of Hospital Stay (Days)</b>	n/a		6		n/a	

<sup>†</sup>The incidence of ED visits does not include patients who were subsequently admitted into the hospital  
Rate = Frequency / Population \* 100,000

\*Data based on frequencies less than six not reported

\*\*Caution: Rates calculated using frequencies of less than 20 are unstable

Source: NYSDOH, Bureau of Occupational Health and Injury Prevention  
[www.health.ny.gov/prevention/injury\\_prevention/](http://www.health.ny.gov/prevention/injury_prevention/)

SPARCS December 2013

Vital Statistics Death File February 2014



Emergency Department (ED)† Visits Due to Injury  
Leading Causes by Age Group  
Finger Lakes Region, New York State Residents, 2010-2012

Rank	Age Group									
	0<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65+	Total
1	Fall 426 (49%)	Fall 2,483 (39%)	Fall 1,786 (32%)	Fall 2,059 (27%)	Struck By, Against 2,042 (20%)	Fall 1,590 (15%)	Fall 4,869 (18%)	Fall 5,972 (29%)	Fall 7,135 (58%)	Fall 28,068 (28%)
2	Struck By, Against 95 (11%)	Struck By, Against 1,045 (16%)	Struck By, Against 1,136 (21%)	Struck By, Against 1,885 (25%)	Fall 1,747 (17%)	Struck By, Against 1,321 (13%)	Overexertion 3,392 (13%)	Cut / Pierce 2,068 (10%)	Unspecified 912 (7%)	Struck By, Against 12,890 (13%)
3	Unspecified 49 (6%)	Natural / Environmental 463 (7%)	Cut / Pierce 463 (8%)	Overexertion 739 (10%)	Overexertion 1,069 (11%)	Cut / Pierce 1,173 (11%)	Struck By, Against 2,968 (11%)	Overexertion 1,971 (10%)	Cut / Pierce 634 (5%)	Overexertion 9,246 (9%)
4	MVT*, Occupant 49 (6%)	Cut / Pierce 363 (6%)	Natural / Environmental 454 (8%)	Cut / Pierce 577 (8%)	MVT*, Occupant 899 (9%)	MVT*, Occupant 1,119 (11%)	Cut / Pierce 2,820 (11%)	Struck By, Against 1,774 (9%)	Struck By, Against 625 (5%)	Cut / Pierce 8,923 (9%)
5	Natural / Environmental 38 (4%)	Unspecified 315 (5%)	Overexertion 228 (4%)	Natural / Environmental 320 (4%)	Cut / Pierce 797 (8%)	Overexertion 1,044 (10%)	MVT*, Occupant 2,274 (9%)	MVT*, Occupant 1,615 (8%)	MVT*, Occupant 601 (5%)	MVT*, Occupant 7,099 (7%)
6	Hot Object / Scald 28 (3%)	Overexertion 256 (4%)	Unspecified 217 (4%)	Pedal Cyclist, Non- Traffic 303 (4%)	Assault 774 (8%)	Assault 1,031 (10%)	Unspecified 2,187 (8%)	Unspecified 1,594 (8%)	Overexertion 526 (4%)	Unspecified 6,768 (7%)
7	Cut / Pierce 27 (3%)	Poisoning 252 (4%)	Pedal Cyclist, Non- Traffic 206 (4%)	Unspecified 287 (4%)	Unspecified 485 (5%)	Unspecified 722 (7%)	Assault 1,825 (7%)	Natural / Environmental 1,075 (5%)	Natural / Environmental 446 (4%)	Natural / Environmental 4,721 (5%)
8	Poisoning 27 (3%)	Hot Object / Scald 151 (2%)	MVT*, Occupant 179 (3%)	Assault 252 (3%)	Natural / Environmental 321 (3%)	Natural / Environmental 420 (4%)	Natural / Environmental 1,183 (4%)	Assault 678 (3%)	Poisoning 112 (1%)	Assault 4,706 (5%)
9	Overexertion 20 (2%)	MVT*, Occupant 148 (2%)	Transport, Non- Traffic 64 (1%)	MVT*, Occupant 217 (3%)	Self-inflicted 228 (2%)	Self-inflicted 150 (1%)	Transport, Non- Traffic 330 (1%)	Machinery 279 (1%)	Machinery 92 (1%)	Pedal Cyclist, Non- Traffic 1,220 (1%)
10	Suffocation 13 (2%)	Suffocation 66 (1%)	Hot Object / Scald 58 (1%)	Transport, Non- Traffic 132 (2%)	Transport, Non- Traffic 177 (2%)	Transport, Non- Traffic 138 (1%)	Self-inflicted 309 (1%)	Poisoning 219 (1%)	Transport, Non- Traffic 68 (1%)	Poisoning 1,215 (1%)

Yearly Average (percent of age group)

†The incidence of ED visits does not include those that were subsequently admitted into the hospital

MVT\* = Motor Vehicle Traffic

\*Data based on three year total frequencies of less than six are not reportable

	Intentional Injury
	Unintentional Injury



Hospitalizations Due to Injury  
Leading Causes by Age Group  
Finger Lakes Trauma Region, New York State Residents, 2010-2012

Rank	Age Group									
	0<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65+	Total
1	Fall 14 (26%)	Fall 50 (28%)	Fall 46 (39%)	Fall 39 (23%)	Self-inflicted 123 (29%)	Self-inflicted 128 (27%)	Self-inflicted 416 (26%)	Fall 900 (37%)	Fall 3,762 (75%)	Fall 5,154 (49%)
2	Assault 7 (13%)	Poisoning 37 (20%)	Pedal Cyclist, Non-Traffic 9 (8%)	Self-inflicted 27 (16%)	Assault 54 (13%)	Assault 71 (15%)	Fall 247 (16%)	Self-inflicted 286 (12%)	Unspecified 319 (6%)	Self-inflicted 1,018 (10%)
3	Unspecified 6 (12%)	Hot Object / Scald 26 (14%)	Struck By, Against 7 (6%)	Struck By, Against 17 (10%)	Fall 47 (11%)	Fall 48 (10%)	Poisoning 146 (9%)	Poisoning 236 (10%)	Poisoning 142 (3%)	Poisoning 643 (6%)
4	Hot Object / Scald 5 (8%)	Natural / Environmental 10 (5%)	Natural / Environmental 7 (6%)	Transport, Non-Traffic 12 (7%)	MVT <sup>a</sup> , Occupant 43 (10%)	MVT <sup>a</sup> , Occupant 48 (10%)	Assault 126 (8%)	Unspecified 146 (6%)	MVT <sup>a</sup> , Occupant 135 (3%)	Unspecified 561 (5%)
5	Poisoning 5 (8%)	Struck By, Against 6 (3%)	Hot Object / Scald 5 (4%)	Pedal Cyclist, Non-Traffic 9 (5%)	Poisoning 27 (6%)	Poisoning 41 (9%)	MVT <sup>a</sup> , Occupant 104 (7%)	MVT <sup>a</sup> , Occupant 118 (5%)	Struck By, Against 102 (2%)	MVT <sup>a</sup> , Occupant 465 (4%)
6	*	Unspecified 4 (2%)	Poisoning 5 (4%)	MVT <sup>a</sup> , Occupant 8 (5%)	Struck By, Against 20 (5%)	MVT <sup>a</sup> , Motorcyclist 16 (3%)	Unspecified 61 (4%)	Natural / Environmental 93 (4%)	Natural / Environmental 78 (2%)	Assault 347 (3%)
7	*	Fire / Flame 4 (2%)	MVT <sup>a</sup> , Pedestrian 5 (4%)	Natural / Environmental 6 (4%)	Transport, Non-Traffic 12 (3%)	Transport, Non-Traffic 15 (3%)	Environmental 59 (4%)	Assault 67 (3%)	Suffocation 62 (1%)	Struck By, Against 274 (3%)
8	*	Assault 4 (2%)	Transport, Non-Traffic 4 (4%)	Assault 6 (4%)	Natural / Environmental 9 (2%)	Struck By, Against 13 (3%)	Struck By, Against 41 (3%)	Struck By, Against 66 (3%)	Overexertion 61 (1%)	Overexertion 178 (2%)
9	*	Drowning / Submersion 3 (2%)	Cut / Pierce 4 (3%)	MVT <sup>a</sup> , Pedestrian 5 (3%)	Overexertion 8 (2%)	Unspecified 11 (2%)	Transport, Non-Traffic 40 (3%)	Overexertion 57 (2%)	Self-inflicted 38 (1%)	Transport, Non-Traffic 168 (2%)
10	*	Suffocation 3 (2%)	MVT <sup>a</sup> , Occupant 4 (3%)	Poisoning 4 (2%)	MVT <sup>a</sup> , Pedestrian 8 (2%)	Cut / Pierce 10 (2%)	MVT <sup>a</sup> , Motorcyclist 40 (3%)	MVT <sup>a</sup> , Motorcyclist 55 (2%)	Transport, Non-Traffic 37 (1%)	Hot Object / Scald 134 (1%)

Yearly Average (percent of age group)

MVT<sup>a</sup> = Motor Vehicle Traffic

\*Data based on three year total frequencies of less than six are not reportable

	Intentional Injury
	Unintentional Injury



Injury Related Deaths  
Leading Causes by Age Group  
Finger Lakes Trauma System, New York State Residents, 2010-2012

Rank	Age Group									
	0<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65+	Total
1	Suffocation 3 (75%)	*	*	*	Homicide 8 (32%)	Homicide 9 (22%)	Poisoning 36 (26%)	Suicide 55 (31%)	Fall 120 (52%)	Fall 140 (22%)
2	*	*	*	*	Suicide 5 (21%)	Poisoning 8 (19%)	Suicide 34 (24%)	Poisoning 34 (19%)	Suicide 23 (10%)	Suicide 126 (20%)
3		*	*	*	MVT <sup>a</sup> , Unspecified 3 (12%)	Suicide 8 (18%)	Homicide 19 (14%)	Fall 16 (9%)	Unspecified 20 (9%)	Poisoning 87 (14%)
4		*		*	MVT <sup>a</sup> , Occupant 2 (10%)	MVT <sup>a</sup> , Unspecified 5 (11%)	MVT <sup>a</sup> , Unspecified 14 (10%)	MVT <sup>a</sup> , Unspecified 11 (6%)	Suffocation 18 (8%)	Homicide 51 (8%)
5		*		*	*	MVT <sup>a</sup> , Occupant 3 (8%)	MVT <sup>a</sup> , Occupant 7 (5%)	Homicide 10 (5%)	MVT <sup>a</sup> , Unspecified 12 (5%)	MVT <sup>a</sup> , Unspecified 45 (7%)
6		*		*	*	*	MVT <sup>a</sup> , Motorcyclist 6 (4%)	Suffocation 7 (4%)	MVT <sup>a</sup> , Occupant 7 (3%)	Suffocation 32 (5%)
7				*	*	*	Fall 3 (2%)	MVT <sup>a</sup> , Occupant 7 (4%)	Poisoning 27 (4%)	MVT <sup>a</sup> , Occupant 27 (4%)
8					*	*	Suffocation 3 (2%)	MVT <sup>a</sup> , Motorcyclist 6 (3%)	MVT <sup>a</sup> , Pedestrian 5 (2%)	Unspecified 26 (4%)
9					*	*	MVT <sup>a</sup> , Pedestrian 3 (2%)	Unspecified 4 (2%)	Fire / Flame 3 (1%)	MVT <sup>a</sup> , Pedestrian 15 (2%)
10					*	*	Transport, Non-Traffic 2 (1%)	MVT <sup>a</sup> , Pedestrian 4 (2%)	Homicide 2 (1%)	MVT <sup>a</sup> , Motorcyclist 14 (2%)
Yearly Average (percent of age group)										

MVT<sup>a</sup> = Motor Vehicle Traffic<sup>a</sup>Data based on three year total frequencies of less than six are not reportable

	Intentional Injury
	Unintentional Injury