

# Long Island Suffolk

Trauma Registry Regional Progress Report 2010-2013

New York State Department of Health

Office of Primary Care and Health Systems Management

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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 Long Island Suffolk 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 Long Island Suffolk Region for the discharge years 2010-2013, who were included in the New York State Trauma Registry. There were a total of 8,067 trauma cases amongst the residents of the Long Island Suffolk Region. The key findings include the following:

- ▶ Annually, there were an average of 2,017 trauma incidents with a 6.55% case fatality rate.
- ▶ The median EMS response time was 8 minutes.
- ▶ The median transport time to an appropriate trauma center was 14 minutes, for adults, and 19 minutes, for children under 15 years of age.
- ▶ 41% 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 2.6 hours.
- ▶ The median length of stay for surviving patients with an injury severity score of  $\geq 25$  was 13.1 days.
- ▶ The median time in the emergency department for patients with an injury severity score of  $\geq 25$  was 4 hours.
- ▶ The risk ratio,  $\frac{\text{observed fatality rate}}{\text{expected fatality rate}}$ , for all trauma from the Long Island Suffolk Region was 0.98. (State average is 1)



## Long Island Suffolk (LIS) Incident Summary (with comparison to state)

Categories	Long Island Suffolk		Incidence*		Case Fatality Rate**	
	Incidents	Fatalities	LIS	State	LIS	State
<b>Year</b>						
2010	2,138	143	14.31	9.05	6.69	6.39
2011	2,064	127	13.76	8.73	6.15	6.79
2012	1,908	135	12.74	8.59	7.08	6.77
2013	1,957	123	13.05	8.16	6.29	6.58
<b>Age</b>						
0-5	286	5	6.85	5.38	1.75	2.14
6-13	193	4	2.98	3.06	2.07	1.73
14-34	1,964	81	12.72	8.06	4.12	4.96
35-64	2,595	142	10.25	7.17	5.47	5.28
65+	3,029	296	38.38	21.13	9.77	10.63
<b>Sex</b>						
Male	4,920	337	16.68	11.72	6.85	6.80
Female	3,147	191	10.34	5.72	6.07	6.31
<b>ISS</b>						
0-9	3,175	63	5.30	3.07	1.98	1.77
10-15	1,780	39	2.97	1.83	2.19	1.86
16-24	2,073	120	3.46	2.23	5.79	4.44
25-34	717	189	1.20	0.89	26.36	25.31
35-75	300	117	0.50	0.31	39.00	45.37
NA	22	0	0.04	0.29	0.00	6.73
<b>Four Year Total</b>						
All Trauma	8,067	528	13.46	8.63	6.55	6.63

\* Incidents per 10,000 residents

\*\* Case Fatality Rate as a percent



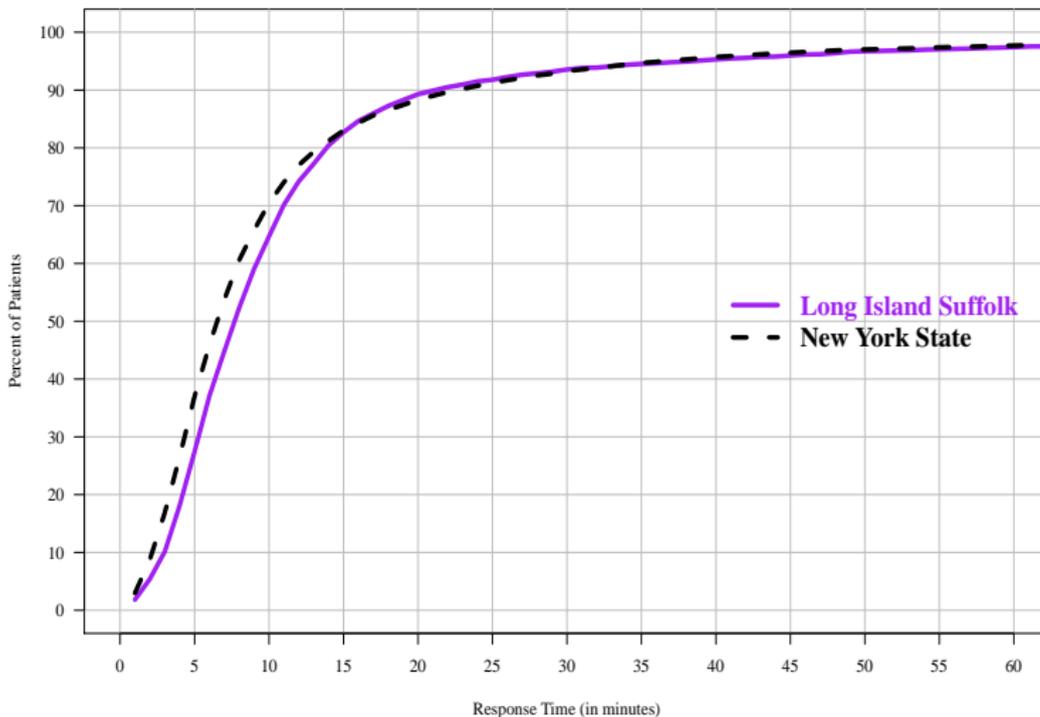
## Long Island Suffolk (LIS) Regional Incident Classification (with comparison to state)

Category	Long Island Suffolk		Incidence*		Case Fatality Rate**	
	Incidents	Fatalities	LIS	State	LIS	State
<b>Selected Mechanism of Injury</b>						
Fall	3,974	294	6.63	3.67	7.40	7.33
Motor Vehicle Traffic	2,631	170	4.39	2.47	6.46	6.67
Struck by, against	495	8	0.83	0.55	1.62	2.07
Transport, non traffic	226	8	0.38	0.28	3.54	3.16
Cut / Pierce	177	7	0.30	0.24	3.95	3.19
Firearm	114	19	0.19	0.38	16.67	14.02
<b>Intention of Injury</b>						
Unintentional	7,381	488	12.32	6.99	6.61	6.60
Assault	538	25	0.90	1.02	4.65	5.87
Undetermined/Other	90	28	0.15	0.54	31.11	6.45
Self-Inflicted	58	11	0.10	0.08	18.97	19.88
<b>Type of Injury</b>						
Blunt	7,511	486	12.54	7.18	6.47	6.41
Penetrating	291	26	0.49	0.63	8.93	9.79
Other	265	16	0.44	0.82	6.04	6.15
<b>Four Year Total</b>						
All Trauma	8,067	528	13.46	8.63	6.55	6.63

\* Incidents per 10,000 residents

\*\* Case Fatality Rate as a percent

Emergency Medical Service Response Time\*

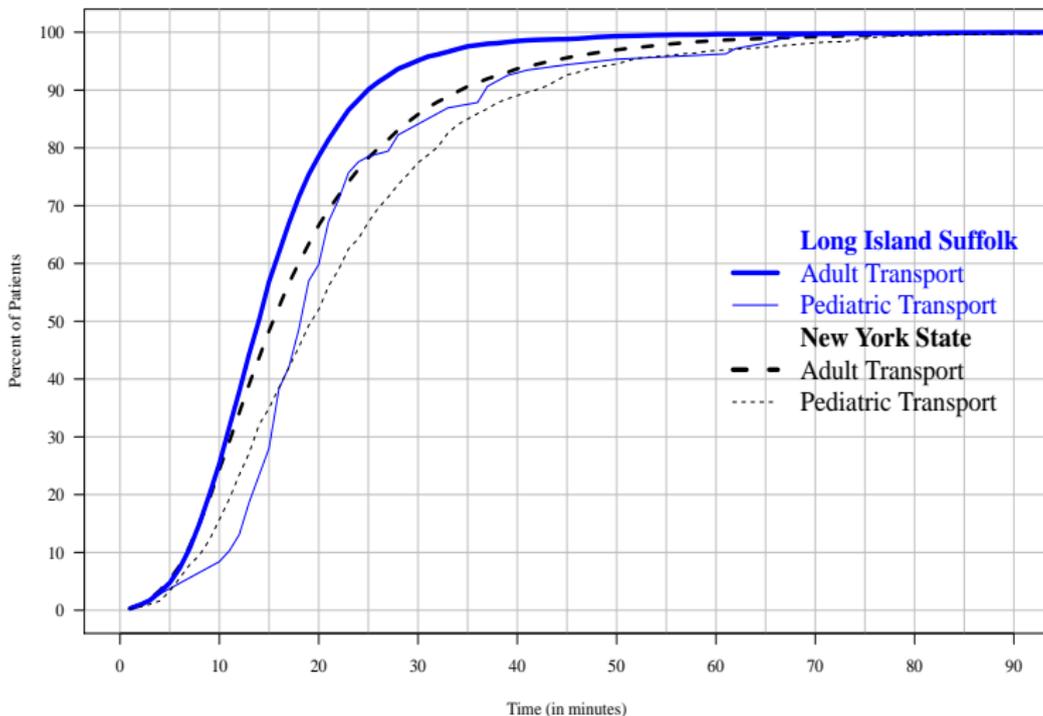


This plot shows the percent of incidents responded to by EMS within a given time period.

\*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\*\*



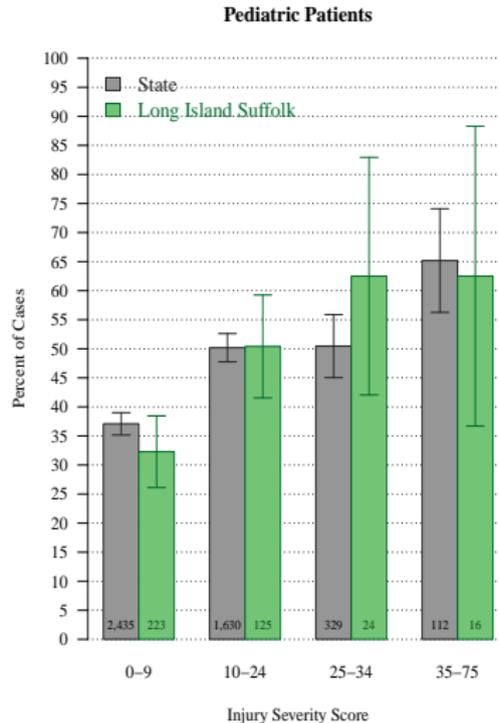
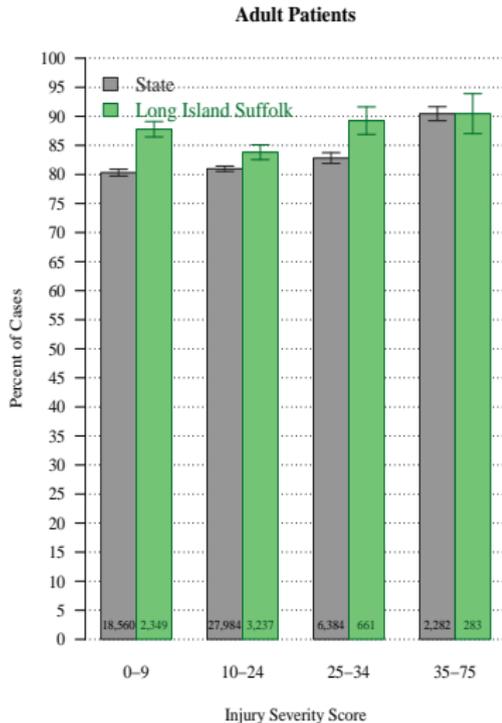
This plot shows the percent of trauma patients transported to an appropriate center within a given time period.

\*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.

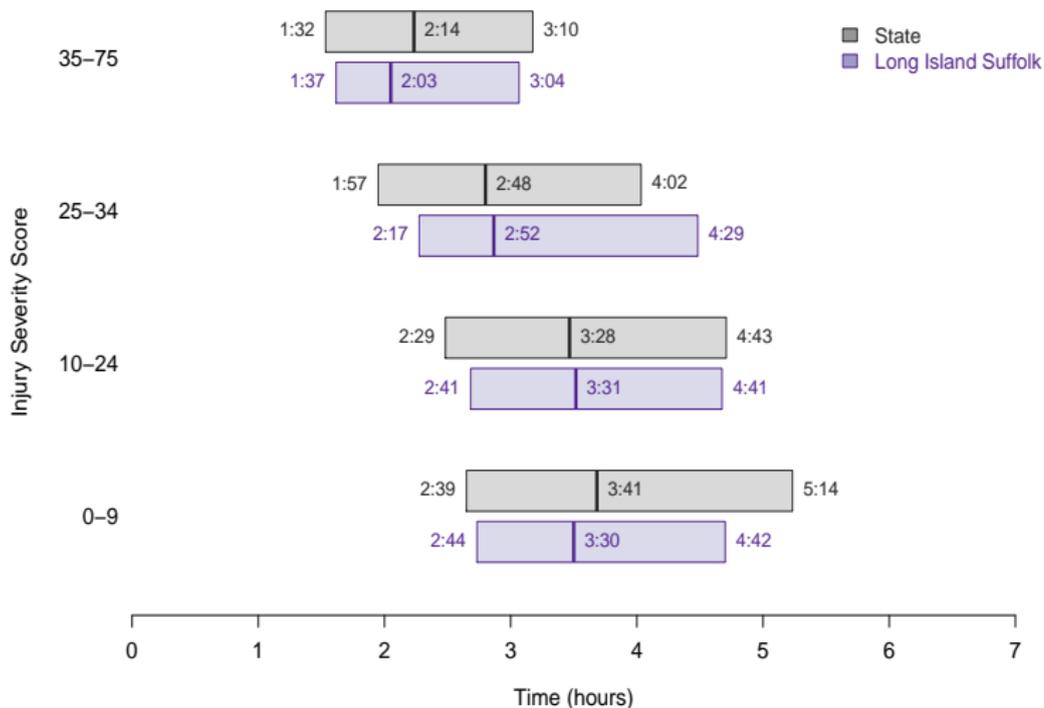


Patients Transported by EMS to an Appropriate Trauma Center by Designation and Injury Severity Score



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.

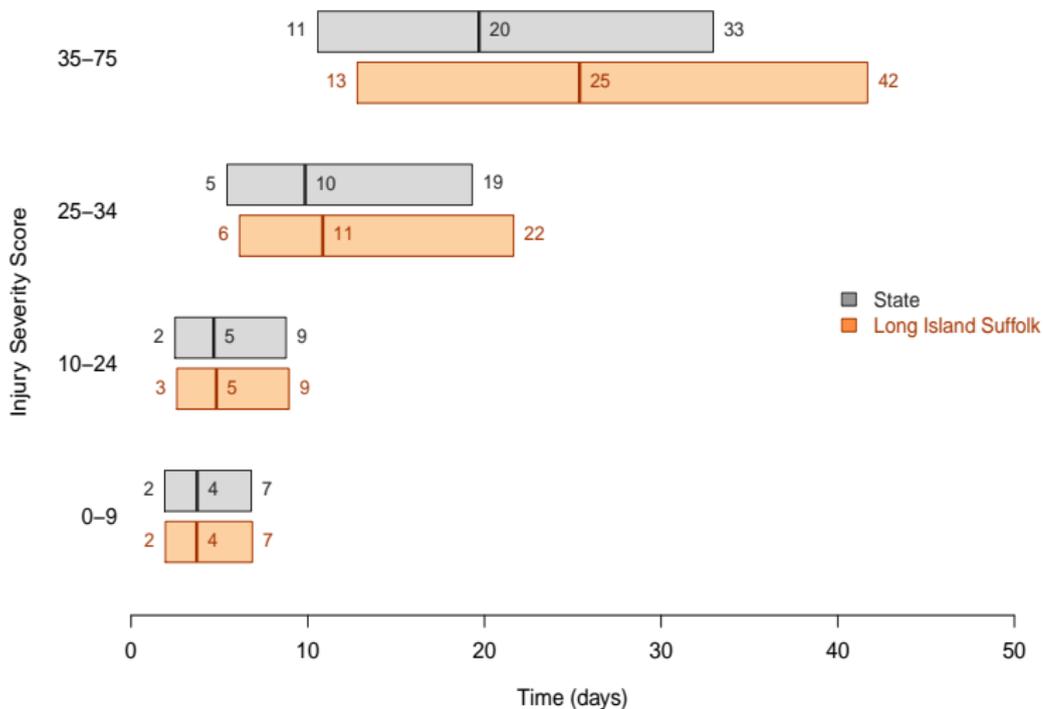
### Quartile Plot of Time at Referring Hospital by Injury Severity Score (for patients who were referred to a trauma center)



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)

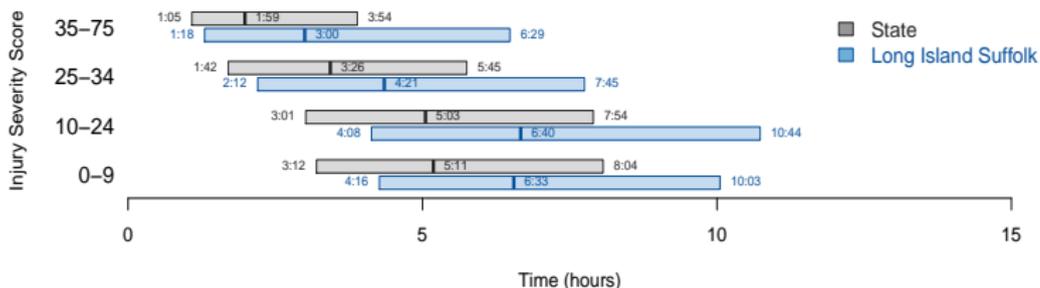


The quartile plot highlights the middle 50% of patients with the box. The center line denotes the median (the 50<sup>th</sup> percentile), 25% of patients therefore fall below the range of the box, and 25% fall above the range of the box.

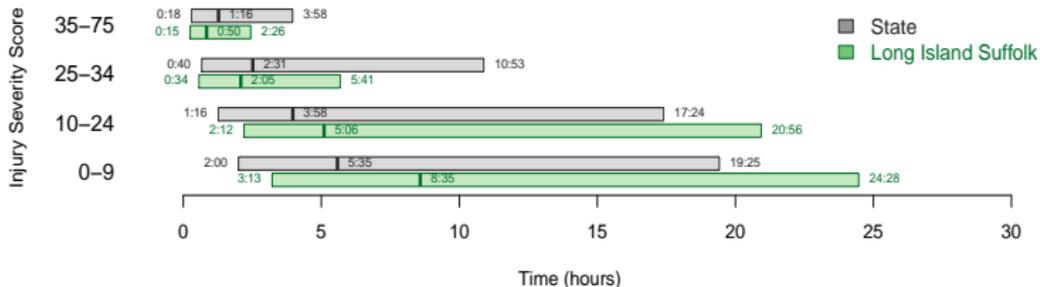
## Long Island Suffolk (LIS) Complication Incidence and Mortality

Complications	Long Island Suffolk		Frequency (%)		Fatality Rate (%)	
	Incidents	Fatalities	LIS	State	LIS	State
pneumonia	429	75	5.32	2.71	17.5	16.5
other unspecified	360	66	4.46	4.31	18.3	18.4
new urinary tract infection	344	38	4.26	1.96	11.0	8.2
unplanned intubation	143	44	1.77	0.62	30.8	28.9
deep vein thrombosis	142	18	1.76	0.83	12.7	9.5
cardiac arrest in hospital	117	93	1.45	0.88	79.5	82.7
new decubitus ulcer	115	13	1.43	0.69	11.3	13.4
severe sepsis	113	48	1.40	0.93	42.5	33.3
withdrawal from alcohol or drugs	93	2	1.15	0.94	2.2	2.8
acute lung injury	89	27	1.10	2.25	30.3	24.0
acute kidney injury	64	19	0.79	0.89	29.7	28.1
pulmonary embolism	54	6	0.67	0.35	11.1	13.5
new myocardial infarction	53	16	0.66	0.24	30.2	33.3
extremity compartment syndrome	45	0	0.56	0.31	0.0	4.8
superficial surgical site infection	27	0	0.33	0.19	0.0	2.3
deep surgical site infection	23	0	0.29	0.13	0.0	7.8
organ or space surgical site infection	19	1	0.24	0.11	5.3	4.0
new stroke or cerebral vascular accident	10	0	0.12	0.14	0.0	18.6
failure of graft, flap, or prosthesis	7	0	0.09	0.03	0.0	0.0
catheter related blood stream infection	3	0	0.04	0.10	0.0	14.3
new bone infection	3	0	0.04	0.03	0.0	0.0
unplanned return to ICU	2	0	0.02	0.13	0.0	12.8

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

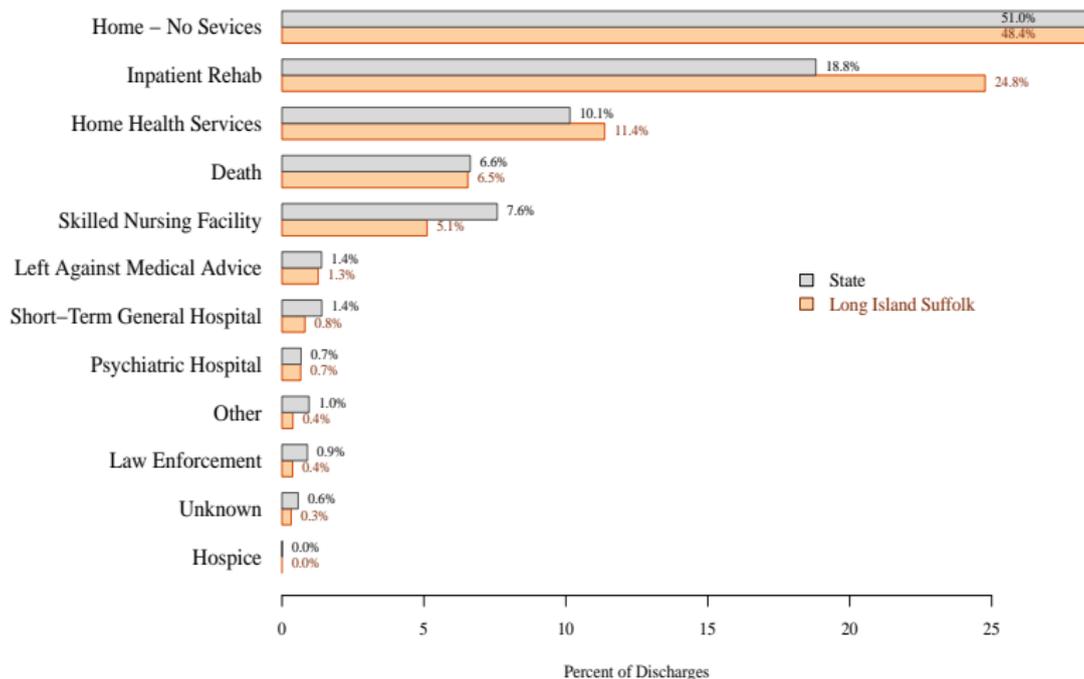


### Quartile Plot of Time Until First Procedure by Injury Severity Score



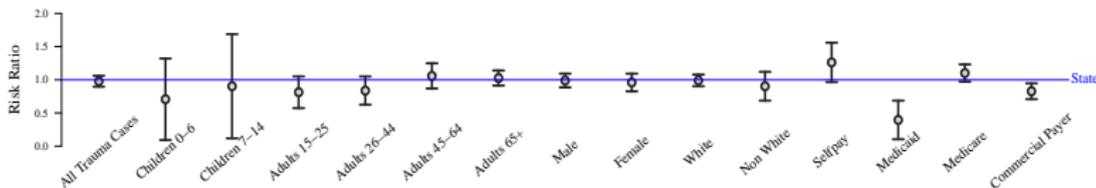
The quartile plot highlights the middle 50% of patients with the box. The center line denotes the median (the 50<sup>th</sup> percentile), 25% of patients therefore fall below the range of the box, and 25% fall above the range of the box.

### Discharge Destination

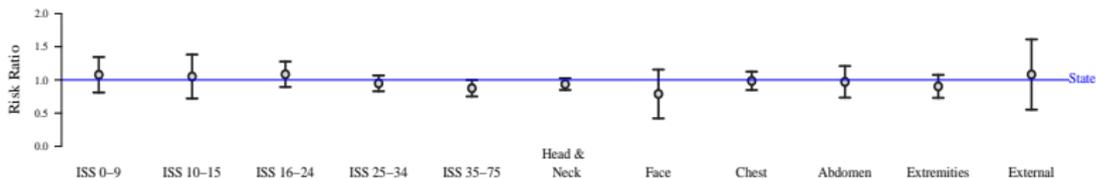


Note that axis margin cuts off full length of discharged to home bar.

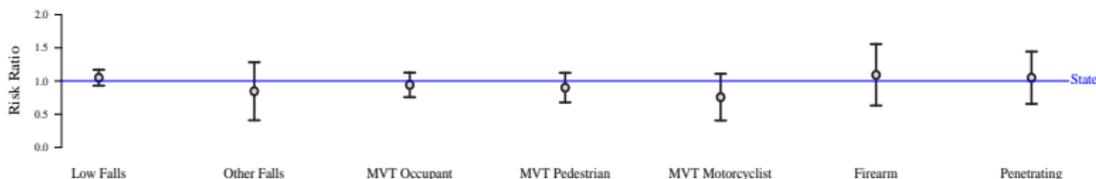
### Risk by Patient Characteristics



### 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.

## Long Island Suffolk Regional Risk Adjusted Fatality Rates

Categories	Long Island Suffolk Region (LIS)			Comparison*		
	N	Observed	Expected	Risk Ratio	State	LIS
<b>Overall</b>						
All Trauma Cases	7,782	6.6%	6.8%	1.0 ±0.1	6.6%	6.4%
<b>Age</b>						
Children 0-6	249	2.0%	2.8%	0.7 ±0.6	2.3%	1.6%
Children 7-14	235	2.1%	2.4%	0.9 ±0.8	2.1%	1.9%
Adults 15-25	1,166	3.7%	4.5%	0.8 ±0.2	4.7%	3.8%
Adults 26-44	1,279	4.5%	5.3%	0.8 ±0.2	4.6%	3.9%
Adults 45-64	1,803	6.2%	5.9%	1.1 ±0.2	5.5%	5.8%
Adults 65+	2,888	9.9%	9.6%	1.0 ±0.1	10.6%	10.9%
<b>Gender</b>						
Male	4,729	6.9%	7.0%	1.0 ±0.1	6.8%	6.7%
Female	3,053	6.2%	6.4%	1.0 ±0.1	6.2%	5.9%
<b>Race</b>						
White	6,633	6.8%	6.9%	1.0 ±0.1	6.9%	6.8%
Non White	1,149	5.5%	6.1%	0.9 ±0.2	5.9%	5.4%
<b>Primary Payor</b>						
Selfpay	574	10.8%	8.6%	1.3 ±0.3	10.0%	12.7%
Medicaid	393	1.8%	4.5%	0.4 ±0.3	4.0%	1.6%
Medicare	2,468	10.0%	9.1%	1.1 ±0.1	9.8%	10.8%
Commercial Payer	3,882	4.6%	5.5%	0.8 ±0.1	5.2%	4.3%

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

## Long Island Suffolk Regional Risk Adjusted Fatality Rates

Categories	Long Island Suffolk Region (LIS)				Comparison*	
	N	Observed	Expected	Risk Ratio	State	LIS
<b>Injury Severity Score (ISS)</b>						
ISS 0-9	3,029	2.0%	1.9%	1.1 ±0.3	1.8%	1.9%
ISS 10-15	1,740	2.2%	2.1%	1.1 ±0.3	1.8%	1.9%
ISS 16-24	2,025	5.8%	5.3%	1.1 ±0.2	4.3%	4.7%
ISS 25-34	695	26.3%	27.8%	0.9 ±0.1	25.2%	23.9%
ISS 35-75	293	39.6%	45.3%	0.9 ±0.1	44.6%	39.0%
<b>Location of Injury</b>						
Head & Neck	3,478	11.0%	11.8%	0.9 ±0.1	10.5%	9.8%
Face	94	16.0%	20.2%	0.8 ±0.4	15.0%	11.8%
Chest	2,059	8.6%	8.8%	1.0 ±0.1	8.6%	8.5%
Abdomen	602	9.6%	9.9%	1.0 ±0.2	10.5%	10.2%
Extremities	1,543	6.4%	7.0%	0.9 ±0.2	5.7%	5.1%
External	5	80.0%	74.0%	1.1 ±0.5	33.6%	36.3%
<b>Falls</b>						
Low Falls	3,347	8.1%	7.7%	1.0 ±0.1	8.0%	8.4%
Other Falls	520	2.7%	3.2%	0.8 ±0.4	3.8%	3.2%
<b>Motor Vehical Traffic (MVT)</b>						
MVT Occupant	1,737	5.4%	5.7%	0.9 ±0.2	5.7%	5.3%
MVT Pedestrian	387	14.0%	15.5%	0.9 ±0.2	9.9%	8.9%
MVT Motorcyclist	360	4.7%	6.2%	0.8 ±0.4	5.2%	3.9%
<b>Other</b>						
Firearm	110	16.4%	15.0%	1.1 ±0.5	12.8%	14.0%
Penetrating	286	8.7%	8.3%	1.0 ±0.4	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 Suffolk 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
Total		797	52.9	13896	922.4	131291	8,715.4
Age Group	0<1	3	17.7**	62	365.7	1023	6,034
	1-4	4	5.7**	234	334.4	7956	11,386.7
	5-9	*	*	167	173.2	7503	7,782.2
	10-14	4	3.5**	247	237.7	11342	10,897.7
	15-19	30	27.8	599	562.0	12827	12,040.9
	20-24	67	70.4	726	762.5	11959	12,560
	25-44	220	59.0	2215	594.6	34968	9,388.9
	45-64	239	55.1	3293	758.7	28963	6,672.7
	65+	227	107.6	6354	3,012.8	14751	6,994.5
	Gender	Male	548	73.9	6859	920	69690
Female		249	32.6	7037	916	61600	8,054.7
Unknown		0	n/a	n/a	n/a	*	n/a
<b>Percent Traumatic Brain Injury</b>		33%		12%		9%	
<b>Mean Charge per Hospitalization or ED Visit</b>		n/a		\$49,655		\$2,347	
<b>Mean One Year Total Hospitalization or ED Visit Charges</b>		n/a		\$690,008,279		\$308,092,128	
<b>Three Year Total Hospitalization or ED Visit Charges</b>		n/a		\$2,070,024,838		\$924,276,384	
<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  
Suffolk 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 533 (52%)	Fall 3,368 (42%)	Fall 2,582 (34%)	Struck By, Against 3,374 (30%)	Struck By, Against 2,841 (22%)	MVT <sup>†</sup> , Occupant 2,285 (19%)	Fall 5,816 (17%)	Fall 7,736 (27%)	Fall 8,190 (56%)	Fall 34,722 (26%)
2	MVT <sup>†</sup> , Occupant 86 (8%)	Struck By, Against 1,304 (16%)	Struck By, Against 1,734 (23%)	Fall 2,864 (25%)	Fall 2,010 (16%)	Fall 1,622 (14%)	MVT <sup>†</sup> , Occupant 5,338 (15%)	MVT <sup>†</sup> , Occupant 3,392 (12%)	Unspecified 1,171 (8%)	Struck By, Against 18,483 (14%)
3	Struck By, Against 81 (8%)	Natural / Environmental 508 (6%)	Cut / Pierce 474 (6%)	Overexertion 1,287 (11%)	MVT <sup>†</sup> , Occupant 1,702 (13%)	Struck By, Against 1,486 (12%)	Struck By, Against 4,070 (12%)	Cut / Pierce 3,048 (11%)	MVT <sup>†</sup> , Occupant 1,034 (7%)	MVT <sup>†</sup> , Occupant 14,940 (11%)
4	Unspecified 55 (5%)	Cut / Pierce 339 (4%)	Natural / Environmental 417 (6%)	Cut / Pierce 578 (5%)	Overexertion 1,426 (11%)	Cut / Pierce 1,220 (10%)	Cut / Pierce 3,960 (11%)	Overexertion 2,830 (10%)	Cut / Pierce 885 (6%)	Overexertion 11,656 (9%)
5	Natural / Environmental 34 (3%)	MVT <sup>†</sup> , Occupant 330 (4%)	Overexertion 374 (5%)	Unspecified 496 (4%)	Cut / Pierce 886 (7%)	Overexertion 1,037 (9%)	Overexertion 3,789 (11%)	Struck By, Against 2,757 (10%)	Struck By, Against 837 (6%)	Cut / Pierce 11,414 (9%)
6	Hot Object / Scald 27 (3%)	Unspecified 328 (4%)	MVT <sup>†</sup> , Occupant 365 (5%)	Pedal Cyclist, Non- Traffic 413 (4%)	Assault 761 (6%)	Assault 905 (8%)	Unspecified 2,693 (8%)	Unspecified 2,373 (8%)	Overexertion 602 (4%)	Unspecified 8,795 (7%)
7	Poisoning 26 (3%)	Overexertion 296 (4%)	Unspecified 305 (4%)	MVT <sup>†</sup> , Occupant 408 (4%)	Unspecified 648 (5%)	Unspecified 727 (6%)	Assault 1,763 (5%)	Natural / Environmental 1,374 (5%)	Natural / Environmental 524 (4%)	Natural / Environmental 5,267 (4%)
8	Cut / Pierce 23 (2%)	Poisoning 206 (3%)	Pedal Cyclist, Non- Traffic 212 (3%)	Natural / Environmental 320 (3%)	Natural / Environmental 330 (3%)	Natural / Environmental 442 (4%)	Natural / Environmental 1,317 (4%)	Assault 735 (3%)	Poisoning 151 (1%)	Assault 4,492 (3%)
9	Suffocation 16 (2%)	Hot Object / Scald 143 (2%)	Transport, Non- Traffic 68 (1%)	Assault 207 (2%)	Pedal Cyclist, Non- Traffic 205 (2%)	Poisoning 196 (2%)	Poisoning 472 (1%)	Poisoning 354 (1%)	MVT <sup>†</sup> , Unspecified 95 (1%)	Poisoning 1,707 (1%)
10	Overexertion 13 (1%)	Suffocation 78 (1%)	Poisoning 67 (1%)	Transport, Non- Traffic 108 (1%)	Poisoning 161 (1%)	MVT <sup>†</sup> , Unspecified 163 (1%)	MVT <sup>†</sup> , Unspecified 442 (1%)	MVT <sup>†</sup> , Unspecified 297 (1%)	Transport, Non- Traffic 73 (0%)	Pedal Cyclist, Non- Traffic 1,486 (1%)

Yearly Average (percent of age group)

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

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

Intentional Injury
Unintentional Injury

Source: NYSDOH, Bureau of Occupational Health and Injury Prevention

[www.health.ny.gov/injury/](http://www.health.ny.gov/injury/)STATISTICAL CENTER  
NEW YORK STATE  
DEPARTMENT OF HEALTH


Hospitalizations Due to Injury  
Leading Causes by Age Group  
Suffolk 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 27 (43%)	Fall 73 (31%)	Fall 76 (46%)	Fall 77 (31%)	Self-Inflicted 112 (19%)	MVT <sup>a</sup> , Occupant 135 (19%)	Fall 422 (19%)	Fall 1,295 (39%)	Fall 4,838 (76%)	Fall 6,971 (50%)
2	Hot Object / Scald 7 (11%)	Poisoning 37 (16%)	Struck By, Against 15 (9%)	Struck By, Against 30 (12%)	MVT <sup>a</sup> , Occupant 92 (15%)	Self-Inflicted 101 (14%)	Self-Inflicted 276 (12%)	Poisoning 301 (9%)	Unspecified 341 (5%)	MVT <sup>a</sup> , Occupant 1,012 (7%)
3	Poisoning 4 (6%)	Hot Object / Scald 30 (13%)	Natural / Environmental 11 (6%)	Pedal Cyclist, Non-Traffic 18 (7%)	Fall 86 (14%)	Assault 85 (12%)	MVT <sup>a</sup> , Occupant 276 (12%)	MVT <sup>a</sup> , Occupant 257 (8%)	MVT <sup>a</sup> , Occupant 224 (4%)	Poisoning 892 (6%)
4	Suffocation 4 (6%)	Natural / Environmental 23 (10%)	MVT <sup>a</sup> , Occupant 7 (4%)	Self-Inflicted 17 (7%)	Assault 50 (8%)	Poisoning 82 (11%)	Poisoning 249 (11%)	Self-Inflicted 234 (7%)	Poisoning 168 (3%)	Self-Inflicted 787 (6%)
5	Unspecified 3 (5%)	Struck By, Against 7 (3%)	Cut / Pierce 6 (4%)	Natural / Environmental 12 (5%)	Struck By, Against 44 (7%)	Fall 76 (11%)	Assault 159 (7%)	Unspecified 181 (6%)	Natural / Environmental 93 (1%)	Unspecified 645 (5%)
6	Assault 3 (5%)	MVT <sup>a</sup> , Occupant 7 (3%)	Pedal Cyclist, Non-Traffic 5 (3%)	MVT <sup>a</sup> , Occupant 11 (5%)	Poisoning 39 (7%)	Cut / Pierce 31 (4%)	Cut / Pierce 91 (4%)	Natural / Environmental 138 (4%)	Struck By, Against 85 (1%)	Assault 406 (3%)
7	Struck By, Against 3 (4%)	Suffocation 6 (2%)	Poisoning 5 (3%)	MVT <sup>a</sup> , Pedestrian 9 (4%)	MVT <sup>a</sup> , Pedestrian 16 (3%)	MVT <sup>a</sup> , Motorcyclist 28 (4%)	Unspecified 80 (4%)	Assault 86 (3%)	Suffocation 82 (1%)	Struck By, Against 359 (3%)
8	Natural / Environmental 2 (4%)	Cut / Pierce 5 (2%)	Hot Object / Scald 4 (3%)	Transport, Non-Traffic 8 (3%)	Transport, Non-Traffic 16 (3%)	Struck By, Against 24 (3%)	Natural / Environmental 78 (4%)	Cut / Pierce 84 (3%)	Self-Inflicted 48 (1%)	Cut / Pierce 269 (2%)
9	MVT <sup>a</sup> , Occupant 2 (3%)	Drowning / Submersion 5 (2%)	MVT <sup>a</sup> , Pedestrian 4 (3%)	Cut / Pierce 7 (3%)	Cut / Pierce 15 (2%)	Environmental 18 (3%)	Struck By, Against 72 (3%)	Struck By, Against 78 (2%)	Overexertion 46 (1%)	MVT <sup>a</sup> , Pedestrian 186 (1%)
10	*	Unspecified 5 (2%)	Transport, Non-Traffic 4 (2%)	Assault 6 (2%)	Natural / Environmental 15 (2%)	Transport, Non-Traffic 15 (2%)	MVT <sup>a</sup> , Motorcyclist 63 (3%)	MVT <sup>a</sup> , Motorcyclist 62 (2%)	Cut / Pierce 29 (0%)	MVT <sup>a</sup> , Motorcyclist 172 (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

Source: NYSDOH, Bureau of Occupational Health and Injury Prevention

[www.health.ny.gov/injury/](http://www.health.ny.gov/injury/)



Department of Health

Injury Related Deaths  
Leading Causes by Age Group  
Suffolk 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	*	*	*	*	Suicide 8 (27%)	Poisoning 26 (38%)	Poisoning 91 (42%)	Poisoning 91 (38%)	Fall 136 (60%)	Poisoning 222 (28%)
2	*	*	*	*	MVTA, Unspecified 6 (19%)	Suicide 11 (16%)	Suicide 46 (21%)	Suicide 55 (23%)	Suicide 18 ( 8%)	Fall 159 (20%)
3		*	*	*	Poisoning 4 (15%)	MVTA, Unspecified 9 (13%)	Homicide 18 ( 8%)	Fall 20 ( 8%)	Unspecified 17 ( 7%)	Suicide 138 (17%)
4				*	Homicide 4 (15%)	Homicide 8 (11%)	MVTA, Pedestrian 13 ( 6%)	MVTA, Pedestrian 14 ( 6%)	MVTA, Unspecified 15 ( 7%)	MVTA, Unspecified 57 ( 7%)
5				*	MVTA, Pedestrian 2 ( 6%)	MVTA, Motorcyclist 4 ( 5%)	MVTA, Unspecified 13 ( 6%)	MVTA, Unspecified 14 ( 6%)	Poisoning 10 ( 4%)	Homicide 41 ( 5%)
6				*	*	MVTA, Pedestrian 3 ( 4%)	MVTA, Occupant 9 ( 4%)	MVTA, Occupant 7 ( 3%)	Suffocation 6 ( 2%)	MVTA, Pedestrian 38 ( 5%)
7				*	*	MVTA, Occupant 2 ( 3%)	MVTA, Motorcyclist 8 ( 4%)	Homicide 5 ( 2%)	MVTA, Pedestrian 5 ( 2%)	Unspecified 27 ( 3%)
8				*	*	Unspecified 4 ( 2%)	Unspecified 5 ( 2%)	MVTA, Motorcyclist 5 ( 2%)	MVTA, Occupant 5 ( 2%)	MVTA, Occupant 24 ( 3%)
9				*	*	*	Unspecified 5 ( 2%)	Fire / Flame 2 ( 1%)	Fire / Flame 2 ( 1%)	MVTA, Motorcyclist 18 ( 2%)
10				*	*	*	Fire / Flame 4 ( 2%)	Natural / Environmental 2 ( 1%)	Natural / Environmental 2 ( 1%)	Suffocation
Yearly Average (percent of age group)										

MVTA = Motor Vehicle Traffic

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

	Intentional Injury
	Unintentional Injury

Source: NYSDOH, Bureau of Occupational Health and Injury Prevention

[www.health.ny.gov/injury/](http://www.health.ny.gov/injury/)

STAT 06 - 2013

Vital Statistics Deaths

01/01/2010 - 12/31/2013

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