Long Island Nassau

Trauma Registry Regional Progress Report 2010-2013

New York State Department of Health
Office of Primary Care and Health Systems Management
May, 2016

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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 Nassau 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 Nassau Region for the discharge years 2010-2013, who were included in the New York State Trauma Registry. There were a total of 6,024 trauma cases amongst the residents of the Long Island Nassau Region. The key findings include the following:

- Annually, there were an average of 1,506 trauma incidents with a 7.52% case fatality rate.
- The median EMS response time was 6 minutes.
- The median transport time to an appropriate trauma center was 13 minutes, for adults, and 14 minutes, for children under 15 years of age.
- 65% 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 3 hours.
- The median length of stay for surviving patients with an injury severity score of $\geq$ 25 was 10.1 days.
- The median time in the emergency department for patients with an injury severity score of $\geq$ 25 was 3.2 hours.
- The risk ratio, $\frac{\text{observed fatality rate}}{\text{expected fatality rate}}$, for all trauma from the Long Island Nassau Region was 1. (State average is 1)

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Long Island Nassau (LIN) Incident Summary (with comparison to state)

Categories	Long Island Nassau		Incidence*		Case Fatality Rate**	
	Incidents	Fatalities	LIN	State	LIN	State
Year						
2010	1,631	112	12.16	9.05	6.87	6.39
2011	1,473	123	10.95	8.73	8.35	6.79
2012	1,444	107	10.71	8.59	7.41	6.77
2013	1,476	111	10.92	8.16	7.52	6.58
Age						
0-5	221	3	6.04	5.38	1.36	2.14
6-13	133	3	2.35	3.06	2.26	1.73
14-34	1,219	63	9.00	8.06	5.17	4.96
35-64	1,651	79	7.31	7.17	4.78	5.28
65+	2,798	304	35.54	21.13	10.86	10.63
Sex						
Male	3,508	312	13.45	11.72	8.89	6.80
Female	2,516	141	9.06	5.72	5.60	6.31
ISS						
0-9	2,420	50	4.49	3.07	2.07	1.77
10-15	1,215	38	2.26	1.83	3.13	1.86
16-24	1,548	86	2.87	2.23	5.56	4.44
25-34	625	199	1.16	0.89	31.84	25.31
35-75	191	79	0.35	0.31	41.36	45.37
NA	25	1	0.05	0.29	4.00	6.73
Four Year Total						
All Trauma	6,024	453	11.18	8.63	7.52	6.63

* Incidents per 10,000 residents
** Case Fatality Rate as a percent

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Long Island Nassau (LIN) Regional Incident Classification (with comparison to state)

Category	Long Island Nassau		Incidence*		Case Fatality Rate**	
	Incidents	Fatalities	LIN	State	LIN	State
Selected Mechanism of Injury						
Fall	3,355	266	6.23	3.67	7.93	7.33
Motor Vehicle Traffic	1,726	133	3.20	2.47	7.71	6.67
Struck by, against	293	7	0.54	0.55	2.39	2.07
Cut / Pierce	144	12	0.27	0.24	8.33	3.19
Firearm	103	18	0.19	0.38	17.48	14.02
Intention of Injury						
Unintentional	5,539	414	10.28	6.99	7.47	6.60
Assault	367	27	0.68	1.02	7.36	5.87
Undetermined/Other	76	29	0.14	0.54	38.16	6.45
Self-Inflicted	42	7	0.08	0.08	16.67	19.88
Type of Injury						
Blunt	5,581	414	10.36	7.18	7.42	6.41
Penetrating	247	30	0.46	0.63	12.15	9.79
Other	196	9	0.36	0.82	4.59	6.15
Four Year Total						
All Trauma	6,024	453	11.18	8.63	7.52	6.63

* Incidents per 10,000 residents
** Case Fatality Rate as a percent

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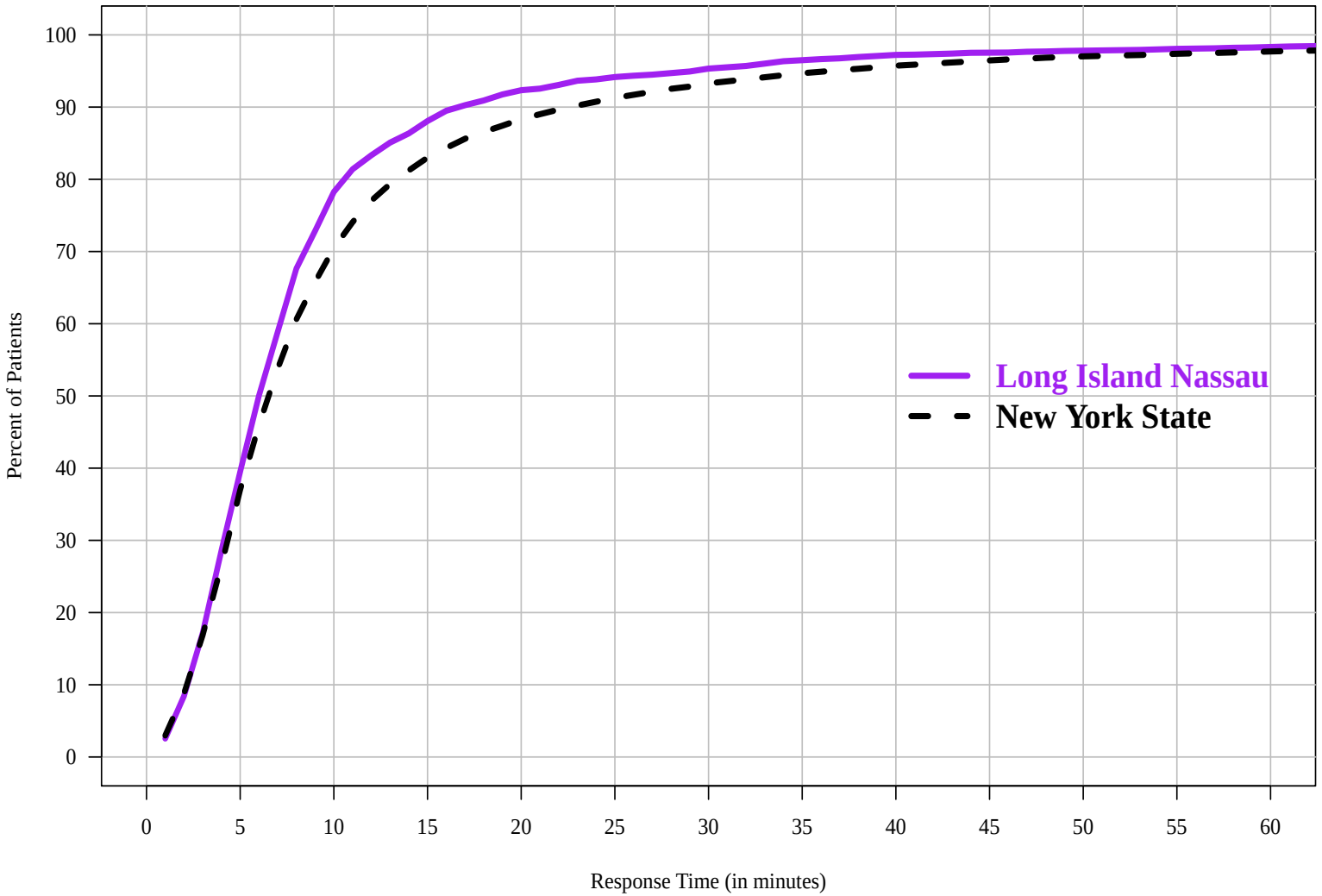
Emergency Medical Service Response Time*



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.

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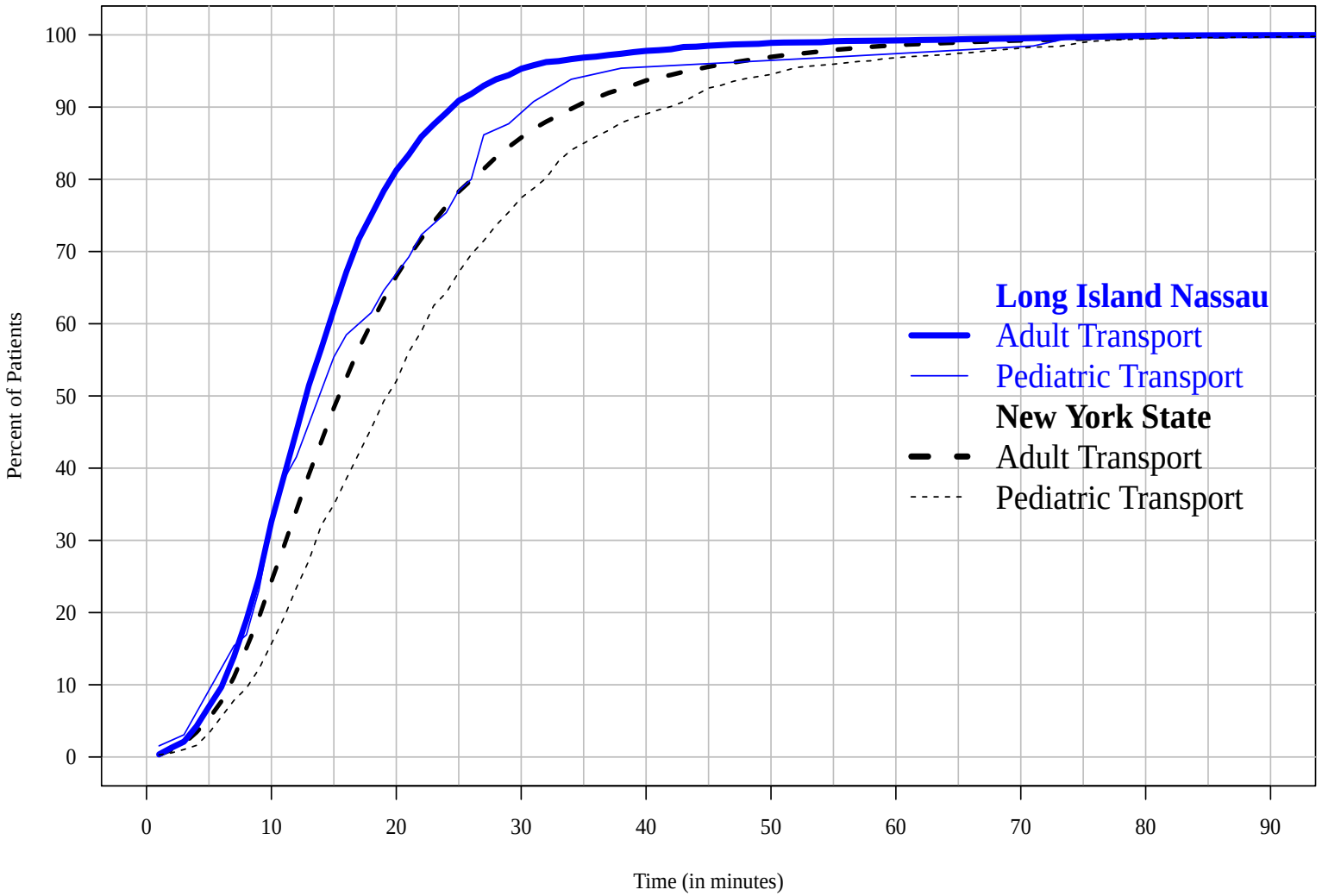
Emergency Medical Service Transport Time* to Patient Appropriate Trauma Center**



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.

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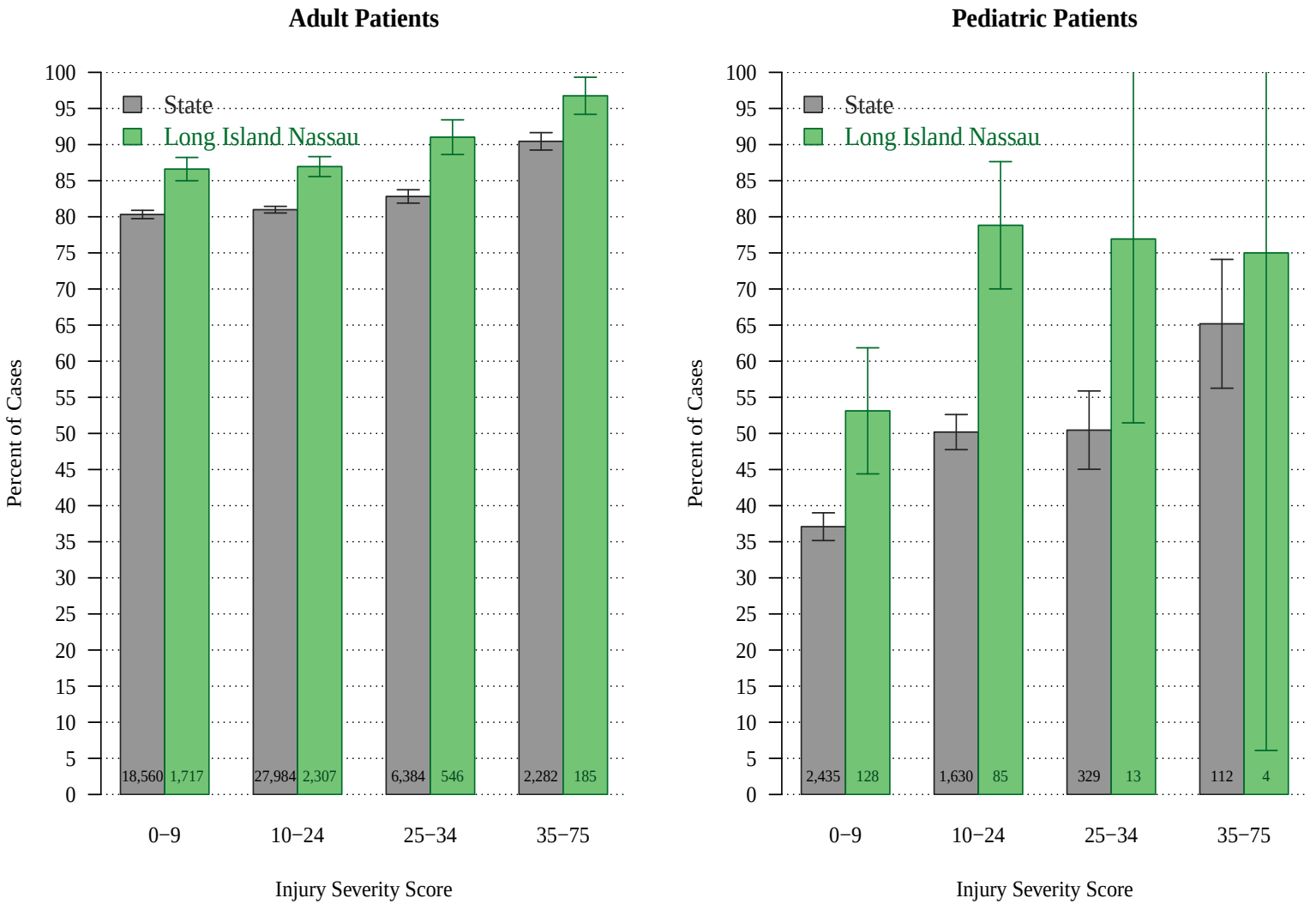
Patients Transported by EMS to an Appropriate Trauma Center by Designation and Injury Severity Score



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.

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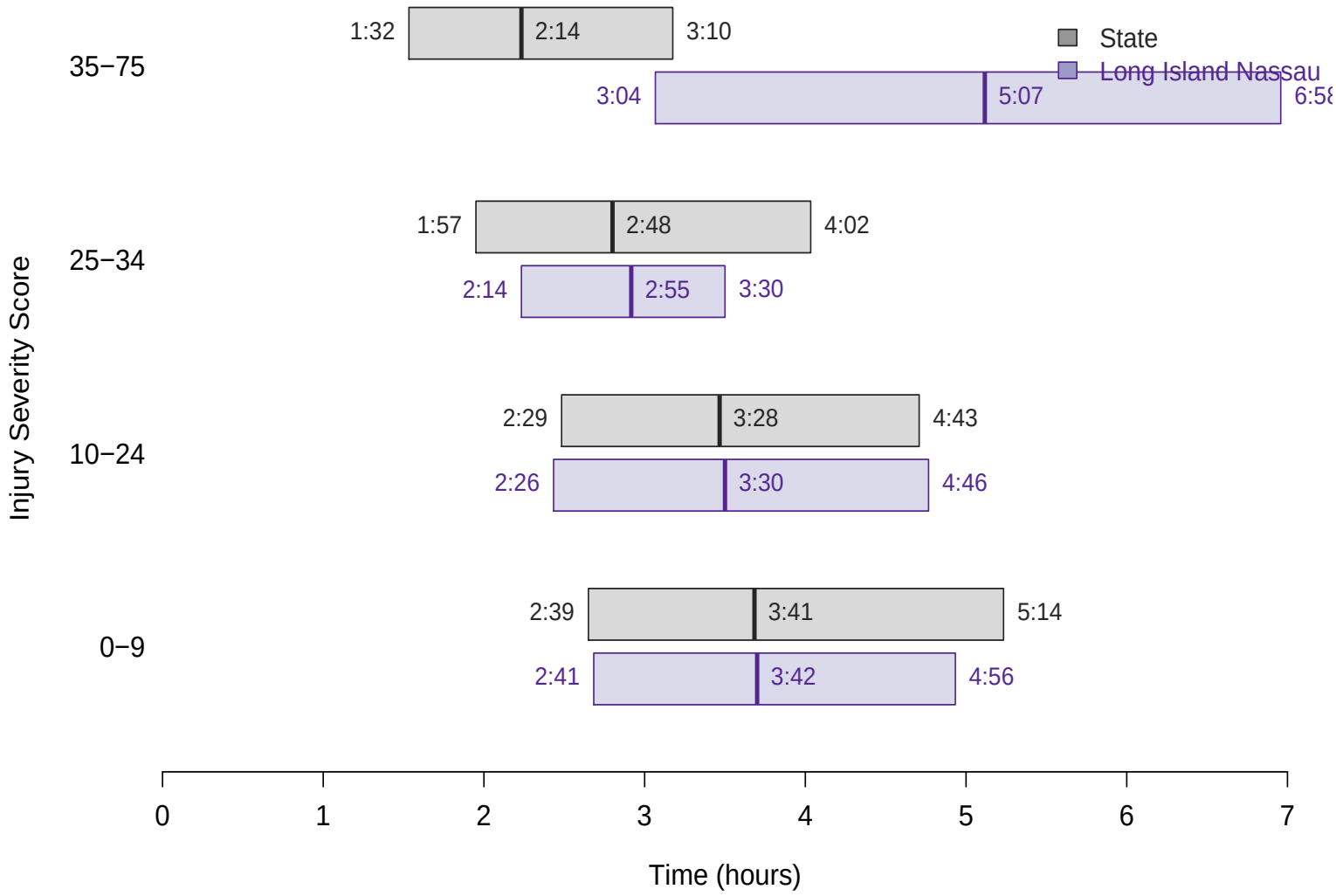
Quartile Plot of Time at Referring Hospital by Injury Severity Score (for patients who where referred to a trauma center)



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

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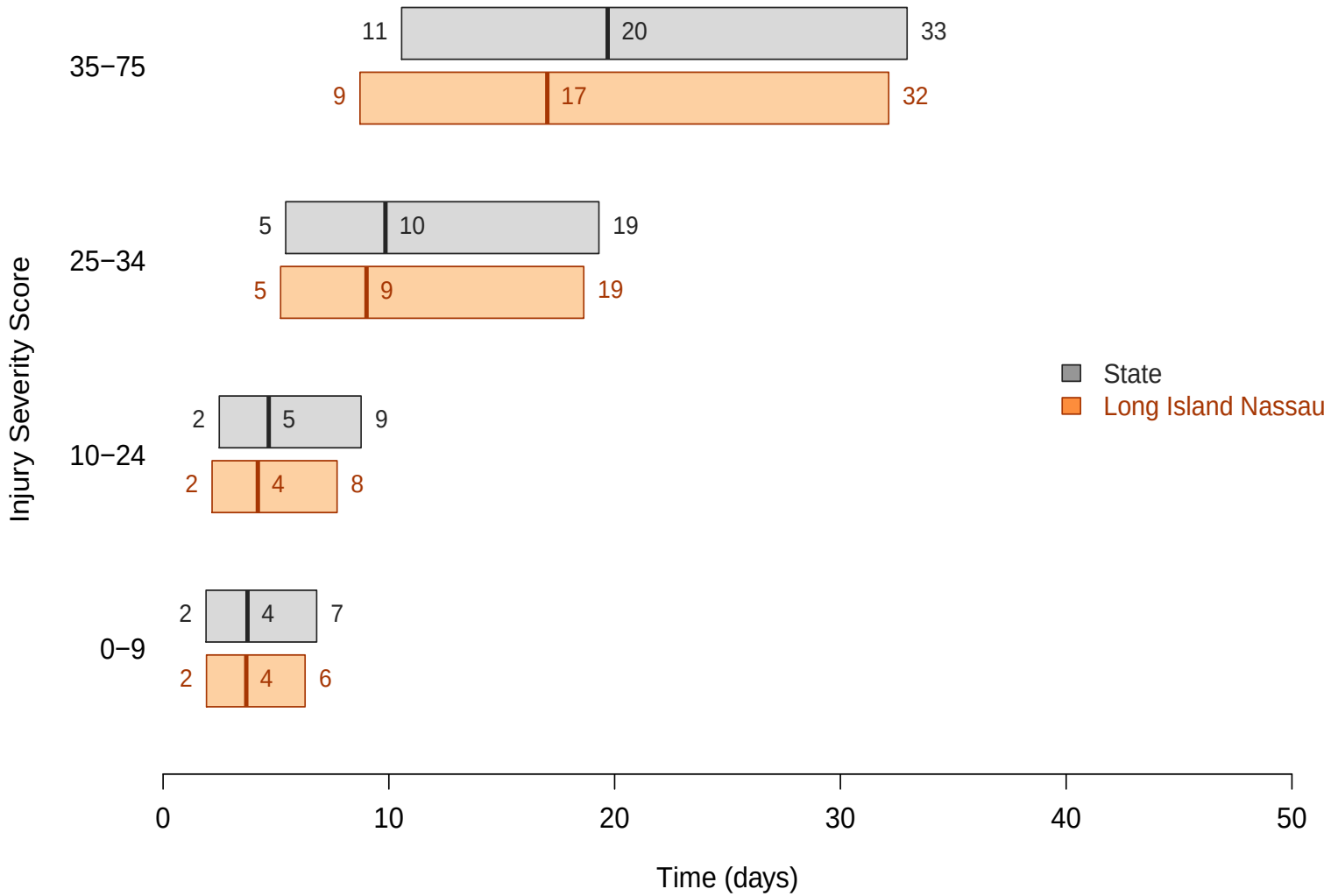
Quartile Plot of Length of Stay by Injury Severity Score (for patients who lived)



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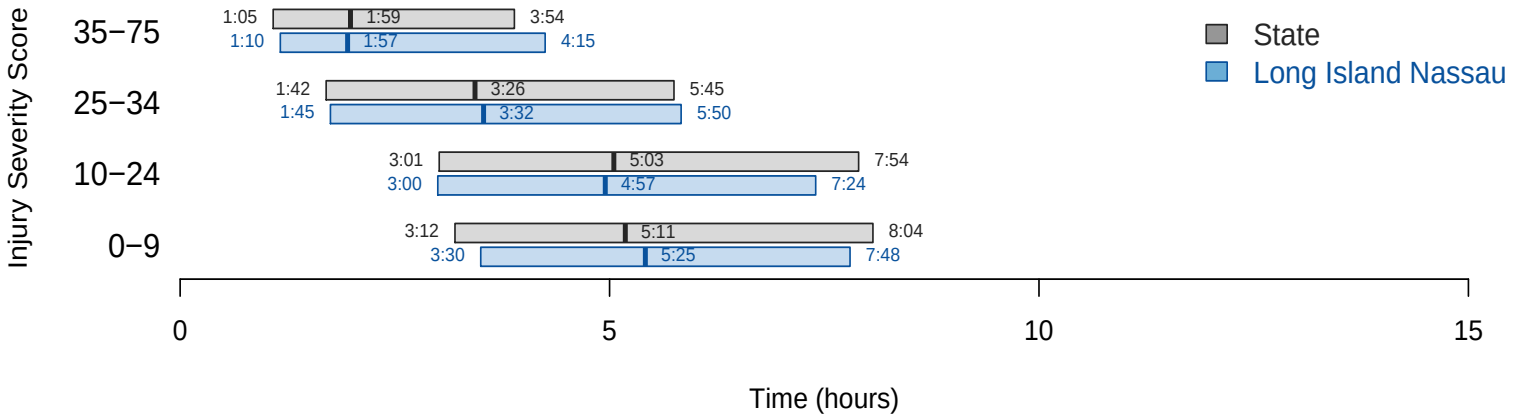
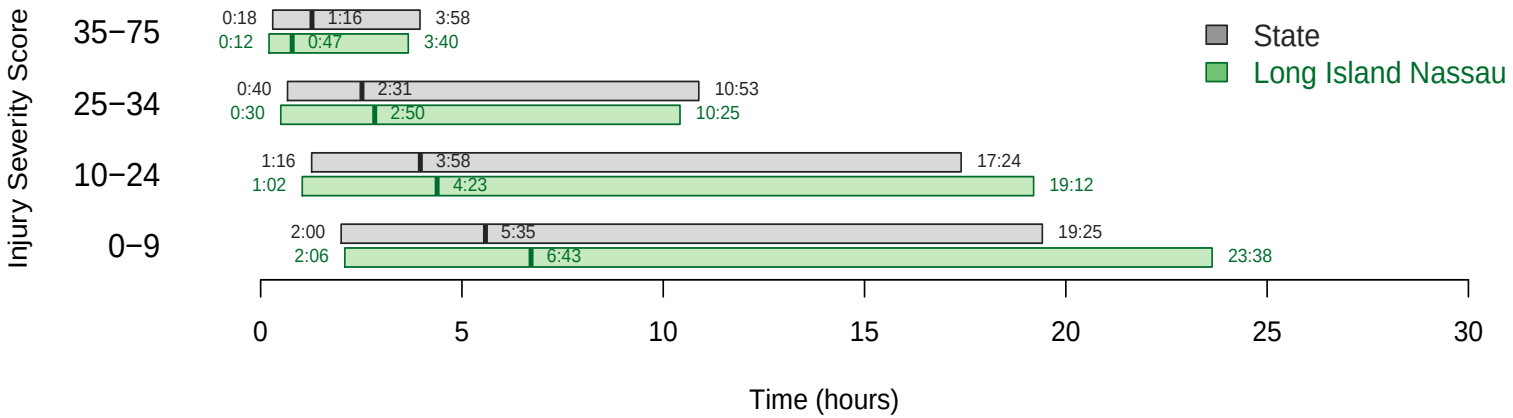
Long Island Nassau (LIN) Complication Incidence and Mortality

Complications	Long Island Nassau		Frequency (%)		Fatality Rate (%)	
	Incidents	Fatalities	LIN	State	LIN	State
other unspecified	443	75	7.35	4.31	16.9	18.4
pneumonia	202	45	3.35	2.71	22.3	16.5
new urinary tract infection	156	20	2.59	1.96	12.8	8.2
acute lung injury	154	57	2.56	2.25	37.0	24.0
severe sepsis	118	48	1.96	0.93	40.7	33.3
acute kidney injury	77	22	1.28	0.89	28.6	28.1
new decubitus ulcer	70	11	1.16	0.69	15.7	13.4
cardiac arrest in hospital	52	43	0.86	0.88	82.7	82.7
unplanned intubation	46	17	0.76	0.62	37.0	28.9
deep vein thrombosis	44	5	0.73	0.83	11.4	9.5
withdrawal from alcohol or drugs	41	4	0.68	0.94	9.8	2.8
pulmonary embolism	27	2	0.45	0.35	7.4	13.5
new myocardial infarction	19	7	0.32	0.24	36.8	33.3
extremity compartment syndrome	13	2	0.22	0.31	15.4	4.8
new stroke or cerebral vascular accident	9	1	0.15	0.14	11.1	18.6
superficial surgical site infection	5	0	0.08	0.19	0.0	2.3
organ or space surgical site infection	4	1	0.07	0.11	25.0	4.0
deep surgical site infection	3	0	0.05	0.13	0.0	7.8
new bone infection	3	0	0.05	0.03	0.0	0.0
unplanned return to ICU	1	0	0.02	0.13	0.0	12.8
catheter related blood stream infection	0	0	0.00	0.10	0.0	14.3
failure of graft, flap, or prosthesis	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 50th percentile), 25% of patients therefore fall below the range of the box, and 25% fall above the range of the box.

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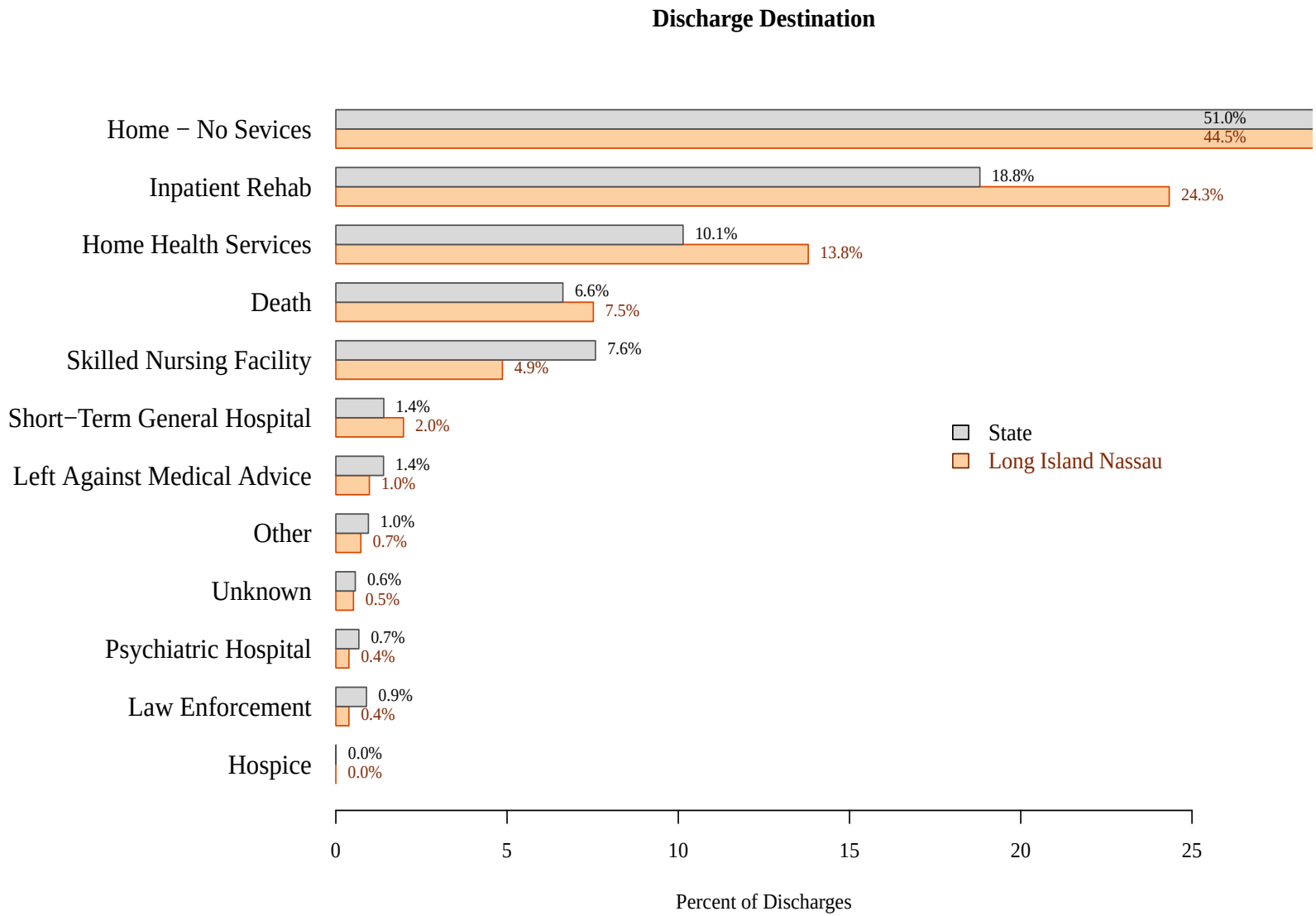

Note that axis margin cuts off full length of discharged to home bar.

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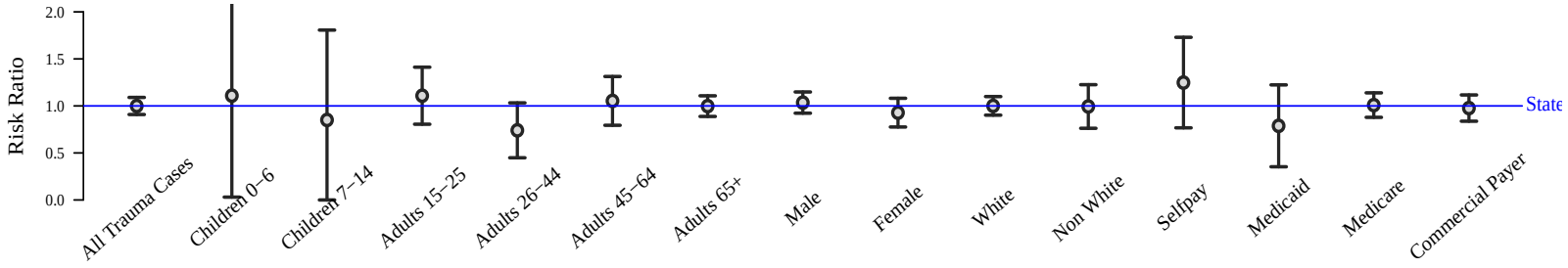
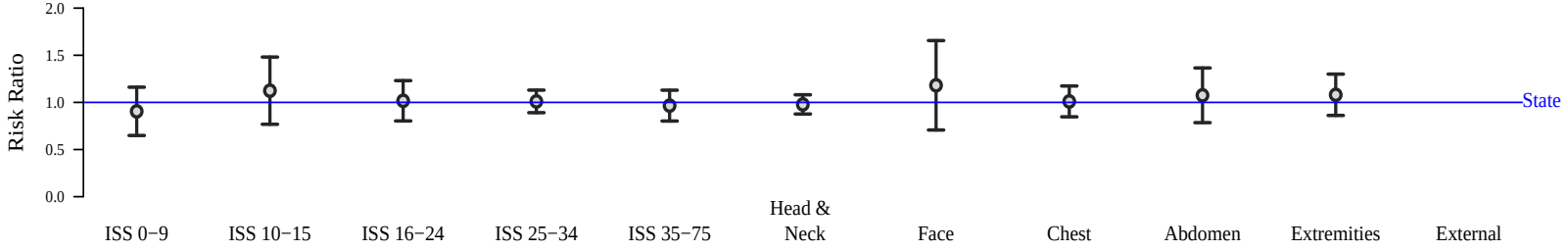
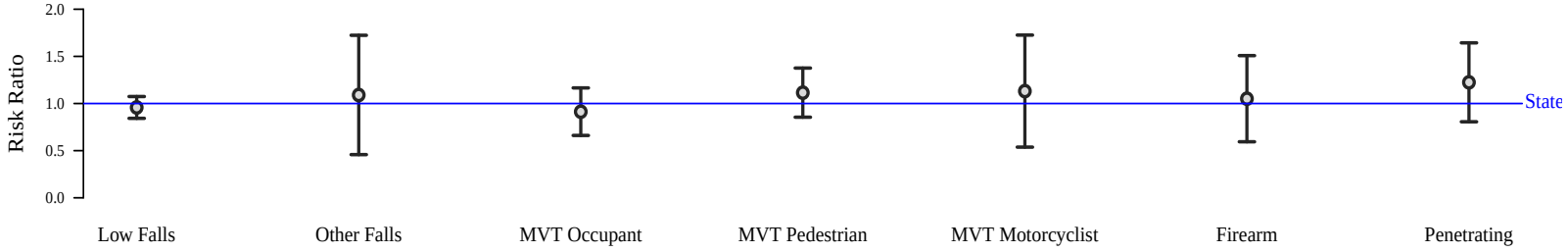
Risk by Patient Characteristics



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.

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Long Island Nassau Regional Risk Adjusted Fatality Rates

Categories	Long Island Nassau Region (LIN)				Comparison*	
	N	Observed	Expected	Risk Ratio	State	LIN
Overall						
All Trauma Cases	5,679	7.6%	7.6%	1.0 ±0.1	6.6%	6.6%
Age						
Children 0-6	205	2.0%	1.8%	1.1 ±1.1	2.3%	2.6%
Children 7-14	143	2.1%	2.5%	0.9 ±1	2.1%	1.8%
Adults 15-25	722	6.6%	6.0%	1.1 ±0.3	4.7%	5.2%
Adults 26-44	794	3.0%	4.1%	0.7 ±0.3	4.6%	3.4%
Adults 45-64	1,117	5.4%	5.1%	1.1 ±0.3	5.5%	5.8%
Adults 65+	2,604	10.9%	10.9%	1.0 ±0.1	10.6%	10.6%
Gender						
Male	3,308	8.9%	8.6%	1.0 ±0.1	6.8%	7.0%
Female	2,371	5.7%	6.1%	0.9 ±0.2	6.2%	5.7%
Race						
White	4,686	7.7%	7.7%	1.0 ±0.1	6.9%	6.9%
Non White	993	6.6%	6.7%	1.0 ±0.2	5.9%	5.9%
Primary Payor						
Selfpay	201	11.4%	9.2%	1.2 ±0.5	10.0%	12.5%
Medicaid	232	5.2%	6.6%	0.8 ±0.4	4.0%	3.2%
Medicare	2,012	10.3%	10.2%	1.0 ±0.1	9.8%	9.9%
Commercial Payer	3,012	5.9%	6.0%	1.0 ±0.1	5.2%	5.1%

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

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Long Island Nassau Regional Risk Adjusted Fatality Rates

Categories	Long Island Nassau Region (LIN)				Comparison*	
	N	Observed	Expected	Risk Ratio	State	LIN
Injury Severity Score (ISS)						
ISS 0-9	2,283	2.1%	2.3%	0.9 ±0.3	1.8%	1.6%
ISS 10-15	1,168	3.2%	2.8%	1.1 ±0.4	1.8%	2.1%
ISS 16-24	1,466	5.6%	5.5%	1.0 ±0.2	4.3%	4.4%
ISS 25-34	587	31.9%	31.5%	1.0 ±0.1	25.2%	25.5%
ISS 35-75	175	43.4%	45.0%	1.0 ±0.2	44.6%	43.1%
Location of Injury						
Head & Neck	2,704	11.6%	11.8%	1.0 ±0.1	10.5%	10.3%
Face	90	21.1%	17.9%	1.2 ±0.5	15.0%	17.7%
Chest	1,323	10.0%	9.9%	1.0 ±0.2	8.6%	8.7%
Abdomen	351	13.1%	12.2%	1.1 ±0.3	10.5%	11.3%
Extremities	1,084	7.9%	7.3%	1.1 ±0.2	5.7%	6.1%
External	1	0.0%	2.1%	NA ±*NA*	33.6%	0.0%
Falls						
Low Falls	2,898	8.4%	8.7%	1.0 ±0.1	8.0%	7.6%
Other Falls	280	3.9%	3.6%	1.1 ±0.6	3.8%	4.2%
Motor Vehical Traffic (MVT)						
MVT Occupant	974	4.9%	5.4%	0.9 ±0.3	5.7%	5.2%
MVT Pedestrian	450	13.6%	12.2%	1.1 ±0.3	9.9%	11.0%
MVT Motorcyclist	181	7.2%	6.3%	1.1 ±0.6	5.2%	5.9%
Other						
Firearm	99	17.2%	16.3%	1.1 ±0.5	12.8%	13.5%
Penetrating	238	12.2%	9.9%	1.2 ±0.4	9.1%	11.2%

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

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Characteristics of Injury Incidence
Deaths, Hospitalizations, and Emergency Department† (ED) Visits
Nassau 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	496	36.7	12,926	955.5	91,580	6,769.6
Age Group	0<1	*	*	63	437.5	751	5,190.2
	1-4	3	4.4**	181	299.6	5,761	9,551.9
	5-9	*	*	155	187.7	5,141	6,237.1
	10-14	*	*	213	234.2	7,355	8,101.6
	15-19	15	16.1	546	574	8,541	8,984.4
	20-24	46	54.8	566	679.2	7,838	9,405.3
	25-44	126	39.1	1,716	534.6	22,629	7,048.6
	45-64	142	35.8	2,654	670	20,461	5,164.7
	65+	160	76.3	6,833	3,266.3	13,102	6,263.1
Gender	Male	346	52.6	6,188	936.5	48,076	7,319.7
	Female	150	21.6	6,738	966.4	43,503	6,250.4
	Unknown	0	n/a	n/a	n/a	*	n/a

Percent Traumatic Brain Injury	33%	15%	10%

Mean Charge per Hospitalization or ED Visit	n/a	$44,910	$2,304
Mean One Year Total Hospitalization or ED Visit Charges	n/a	$580,524,857	$210,969,897
Three Year Total Hospitalization or ED Visit Charges	n/a	$1,741,574,570	$632,909,690

Average Length of Hospital Stay (Days)	n/a	6	n/a

†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/
SPARCS December 2013
Vital Statistics Death File February 2014

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

	Age Group									
Rank	0<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65+	Total
1	Fall 413 (55%)	Fall 2,722 (47%)	Fall 2,009 (39%)	Fall 2,022 (27%)	Struck By, Against 1,780 (21%)	MVT^, Occupant 1,457 (19%)	Fall 3,850 (17%)	Fall 5,743 (28%)	Fall 7,764 (59%)	Fall 27,179 (30%)
2	Struck By, Against 60 (8%)	Struck By, Against 867 (15%)	Struck By, Against 1,095 (21%)	Struck By, Against 1,948 (26%)	Fall 1,485 (17%)	Fall 1,170 (15%)	MVT^, Occupant 3,589 (16%)	MVT^, Occupant 2,664 (13%)	Unspecified 924 (7%)	Struck By, Against 11,810 (13%)
3	Unspecified 47 (6%)	Unspecified 280 (5%)	Cut / Pierce 307 (6%)	Overexertion 656 (9%)	MVT^, Occupant 1,031 (12%)	Struck By, Against 937 (12%)	Cut / Pierce 2,746 (12%)	Cut / Pierce 2,311 (11%)	MVT^, Occupant 850 (6%)	MVT^, Occupant 10,363 (11%)
4	MVT^, Occupant 44 (6%)	Natural / Environmental 266 (5%)	Unspecified 263 (5%)	Unspecified 507 (7%)	Overexertion 795 (9%)	Cut / Pierce 813 (10%)	Struck By, Against 2,507 (11%)	Struck By, Against 1,908 (9%)	Cut / Pierce 776 (6%)	Cut / Pierce 8,240 (9%)
5	Suffocation 24 (3%)	Cut / Pierce 243 (4%)	MVT^, Occupant 254 (5%)	Cut / Pierce 405 (6%)	Cut / Pierce 619 (7%)	Overexertion 622 (8%)	Overexertion 2,045 (9%)	Unspecified 1,722 (8%)	Struck By, Against 709 (5%)	Unspecified 6,946 (8%)
6	Hot Object / Scald 23 (3%)	MVT^, Occupant 193 (3%)	Natural / Environmental 204 (4%)	MVT^, Occupant 280 (4%)	Unspecified 609 (7%)	Assault 620 (8%)	Unspecified 2,018 (9%)	Overexertion 1,567 (8%)	Overexertion 403 (3%)	Overexertion 6,473 (7%)
7	Cut / Pierce 20 (3%)	Overexertion 179 (3%)	Overexertion 192 (4%)	Pedal Cyclist, Non-Traffic 210 (3%)	Assault 570 (7%)	Unspecified 577 (7%)	Assault 1,224 (5%)	Natural / Environmental 779 (4%)	Natural / Environmental 325 (2%)	Assault 3,223 (4%)
8	Natural / Environmental 18 (2%)	Poisoning 157 (3%)	Pedal Cyclist, Non-Traffic 113 (2%)	Natural / Environmental 184 (2%)	Natural / Environmental 215 (3%)	Natural / Environmental 269 (3%)	Natural / Environmental 729 (3%)	Assault 537 (3%)	Poisoning 103 (1%)	Natural / Environmental 2,988 (3%)
9	Overexertion 14 (2%)	Hot Object / Scald 99 (2%)	Hot Object / Scald 45 (1%)	Assault 159 (2%)	Pedal Cyclist, Non-Traffic 100 (1%)	MVT^, Unspecified 104 (1%)	MVT^, Unspecified 265 (1%)	Hot Object / Scald 205 (1%)	MVT^, Pedestrian 82 (1%)	Pedal Cyclist, Non-Traffic 852 (1%)
10	Poisoning 14 (2%)	Suffocation 34 (1%)	Assault 41 (1%)	MVT^, Pedestrian 55 (1%)	MVT^, Pedestrian 83 (1%)	MVT^, Pedestrian 88 (1%)	Hot Object / Scald 238 (1%)	MVT^, Unspecified 199 (1%)	Hot Object / Scald 68 (1%)	Hot Object / Scald 843 (1%)
Yearly Average (percent of age group)										

MVT^ = 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/prevention/injury_prevention/

Vital Statistics Death Files October 2013

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

	Age Group									
Rank	0<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65+	Total
1	Fall 31 (48%)	Fall 79 (44%)	Fall 77 (50%)	Fall 59 (28%)	MVT^, Occupant 104 (19%)	MVT^, Occupant 112 (20%)	Fall 351 (20%)	Fall 1,056 (40%)	Fall 5,133 (75%)	Fall 6,937 (54%)
2	Hot Object / Scald 5 (7%)	Poisoning 31 (17%)	Struck By, Against 10 (6%)	Struck By, Against 25 (12%)	Self-Inflicted 94 (17%)	Self-Inflicted 86 (15%)	MVT^, Occupant 221 (13%)	MVT^, Occupant 220 (8%)	Unspecified 412 (6%)	MVT^, Occupant 877 (7%)
3	Poisoning 4 (6%)	Natural / Environmental 10 (6%)	Natural / Environmental 8 (5%)	Self-Inflicted 21 (10%)	Fall 81 (15%)	Assault 74 (13%)	Self-Inflicted 184 (11%)	Unspecified 174 (7%)	MVT^, Occupant 200 (3%)	Unspecified 693 (5%)
4	Unspecified 4 (6%)	Struck By, Against 8 (5%)	MVT^, Occupant 8 (5%)	MVT^, Pedestrian 16 (8%)	Assault 54 (10%)	Fall 70 (12%)	Assault 169 (10%)	Self-Inflicted 167 (6%)	Poisoning 135 (2%)	Self-Inflicted 603 (5%)
5	Suffocation 4 (6%)	Hot Object / Scald 8 (4%)	MVT^, Pedestrian 5 (3%)	Pedal Cyclist, Non-Traffic 12 (6%)	Struck By, Against 38 (7%)	Poisoning 28 (5%)	Poisoning 107 (6%)	Poisoning 158 (6%)	Struck By, Against 89 (1%)	Poisoning 494 (4%)
6	Assault 3 (5%)	MVT^, Pedestrian 4 (2%)	Pedal Cyclist, Non-Traffic 5 (3%)	MVT^, Occupant 8 (4%)	MVT^, Pedestrian 29 (5%)	MVT^, Motorcyclist 24 (4%)	MVT^, Pedestrian 68 (4%)	MVT^, Pedestrian 86 (3%)	Natural / Environmental 84 (1%)	Assault 408 (3%)
7	*	MVT^, Occupant 4 (2%)	Poisoning 5 (3%)	Poisoning 7 (3%)	Poisoning 20 (4%)	MVT^, Pedestrian 21 (4%)	Unspecified 65 (4%)	Assault 81 (3%)	MVT^, Pedestrian 61 (1%)	Struck By, Against 290 (2%)
8	*	Drowning / Submersion 4 (2%)	Cut / Pierce 4 (3%)	Unspecified 7 (3%)	Unspecified 11 (2%)	Natural / Environmental 14 (3%)	Struck By, Against 55 (3%)	Natural / Environmental 76 (3%)	Suffocation 57 (1%)	MVT^, Pedestrian 290 (2%)
9	*	Suffocation 3 (2%)	Unspecified 4 (2%)	Assault 7 (3%)	Natural / Environmental 11 (2%)	Unspecified 13 (2%)	Natural / Environmental 52 (3%)	Cut / Pierce 53 (2%)	Self-Inflicted 51 (1%)	Cut / Pierce 152 (1%)
10	*	Cut / Pierce 3 (2%)	Hot Object / Scald 3 (2%)	Natural / Environmental 5 (2%)	Pedal Cyclist, Non-Traffic 11 (2%)	Struck By, Against 12 (2%)	Cut / Pierce 51 (3%)	Struck By, Against 51 (2%)	Overexertion 37 (1%)	MVT^, Motorcyclist 126 (1%)
Yearly Average (percent of age group)										

MVT^ = 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/prevention/injury_prevention/

Vital Statistics Death Files October 2013

NEW YORK STATE OF OPPORTUNITY. Department of Health

Injury Related Deaths
Leading Causes by Age Group
Nassau Trauma Region, New York State Residents, 2010-2012

	Age Group									
Rank	0<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65+	Total
1	*	*	*	*	Homicide 3 (20%)	Poisoning 14 (31%)	Poisoning 52 (41%)	Poisoning 50 (36%)	Fall 88 (55%)	Poisoning 124 (25%)
2		*	*	*	Suicide 3 (20%)	Homicide 8 (18%)	Suicide 25 (20%)	Suicide 35 (24%)	Suicide 17 (11%)	Fall 104 (21%)
3		*			MVT^, Occupant 3 (20%)	Suicide 6 (14%)	Homicide 14 (11%)	Fall 12 (8%)	MVT^, Occupant 11 (7%)	Suicide 88 (18%)
4		*			Poisoning 2 (15%)	MVT^, Occupant 6 (13%)	MVT^, Occupant 7 (5%)	MVT^, Pedestrian 10 (7%)	MVT^, Pedestrian 9 (6%)	MVT^, Occupant 33 (7%)
5					*	MVT^, Pedestrian 3 (6%)	MVT^, Pedestrian 6 (5%)	Homicide 5 (4%)	Suffocation 6 (4%)	Homicide 32 (6%)
6					*	MVT^, Unspecified 3 (6%)	MVT^, Motorcyclist 4 (3%)	MVT^, Occupant 5 (4%)	Poisoning 5 (3%)	MVT^, Pedestrian 30 (6%)
7					*	MVT^, Motorcyclist 2 (5%)	Fall 3 (2%)	Unspecified 3 (2%)	Unspecified 5 (3%)	MVT^, Unspecified 14 (3%)
8					*	*	MVT^, Unspecified 3 (2%)	MVT^, Pedal Cyclist 3 (2%)	MVT^, Unspecified 5 (3%)	Unspecified 10 (2%)
9					*	*	Unspecified 3 (2%)	MVT^, Motorcyclist 2 (2%)	Fire / Flame 3 (2%)	MVT^, Motorcyclist 10 (2%)
10						*	*	Suffocation 2 (1%)	Pedestrian, Non-Traffic 3 (2%)	Suffocation 9 (2%)
Yearly Average (percent of age group)										

MVT^ = Motor Vehicle Traffic

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Intentional Injury

Unintentional Injury

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