# New York City

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 traumarelated 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 New York City 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 dilgenly 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 New York City Region for the discharge years 2010-2013, who were included in the New York State Trauma Registry. There were a total of 23,879 trauma cases amongst the residents of the New York City Region. The key findings include the following:

- Annually, there were an average of 5,970 trauma incidents with a 6.33% case fatality rate.
- The median EMS response time was 5 minutes.
- The median transport time to an appropriate trauma center was 14 minutes, for adults, and 17 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 > 25 was 3.3 hours.
- The median length of stay for surviving patients with an injury severity score of ≥ 25 was 11.8 days.
- The median time in the emergency department for patients with an injury severity score of 
   25 was 2.5 hours.
- The risk ratio, observed fatality rate expected fatality rate, for all trauma from the New York City Region was 1.03. (State average is 1)



Categories	New Yo	ork City	Incid	ence*	Case Fa	tality Rate**
	Incidents	Fatalities	NYC	State	NYC	State
Year						
2010	6,684	397	8.16	9.05	5.94	6.39
2011	6,134	400	7.41	8.73	6.52	6.79
2012	5,828	389	6.98	8.59	6.67	6.77
2013	5,233	325	6.23	8.16	6.21	6.58
Age						
0-5	954	15	3.86	5.38	1.57	2.14
6-13	686	7	2.29	3.06	1.02	1.73
14-34	7,231	392	6.67	8.06	5.42	4.96
35-64	7,745	427	6.14	7.17	5.51	5.28
65+	7,252	670	18.90	21.13	9.24	10.63
Sex						
Male	16,401	1029	10.37	11.72	6.27	6.80
Female	7,478	482	4.30	5.72	6.45	6.31
ISS						
0-9	8,651	98	2.60	3.07	1.13	1.77
10-15	5,054	65	1.52	1.83	1.29	1.86
16-24	6,132	251	1.85	2.23	4.09	4.44
25-34	2,126	591	0.64	0.89	27.80	25.31
35-75	705	413	0.21	0.31	58.58	45.37
NA	1,211	93	0.36	0.29	7.68	6.73
Four Year Total						
All Trauma	23,879	1511	7.19	8.63	6.33	6.63

## New York City (NYC) Incident Summary (with comparison to state)

\* Incidents per 10,000 residents

\*\* Case Fatality Rate as a percent

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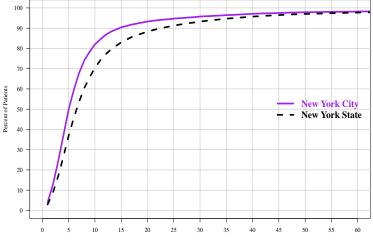
# New York City (NYC) Regional Incident Classification (with comparison to state)

Category	New Yo	ork City	Incid	ence*	Case Fa	tality Rate**
	Incidents	Fatalities	NYC	State	NYC	State
Selected Mechanism of Injury						
Fall	9,793	653	2.95	3.67	6.67	7.33
Motor Vehicle Traffic	5,473	367	1.65	2.47	6.71	6.67
Struck by, against	1,704	25	0.51	0.55	1.47	2.07
Firearm	1,642	194	0.49	0.38	11.81	14.02
Cut / Pierce	952	27	0.29	0.24	2.84	3.19
Unspecified	496	24	0.15	0.13	4.84	7.05
Other Specified, NEC	451	9	0.14	0.08	2.00	3.17
Intention of Injury						
Unintentional	16,629	1055	5.01	6.99	6.34	6.60
Assault	4,496	249	1.35	1.02	5.54	5.87
Undetermined/Other	2,527	258	0.76	0.54	10.21	6.45
Self-Inflicted	227	43	0.07	0.08	18.94	19.88
Type of Injury						
Blunt	17,724	1077	5.34	7.18	6.08	6.41
Other	3,561	213	1.07	0.82	5.98	6.15
Penetrating	2,594	221	0.78	0.63	8.52	9.79
Four Year Total						
All Trauma	23,879	1511	7.19	8.63	6.33	6.63

\* Incidents per 10,000 residents

\*\* Case Fatality Rate as a percent



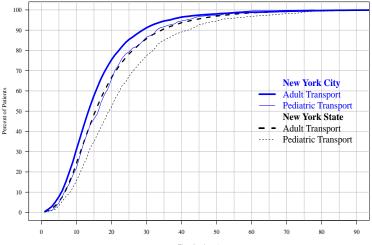


Emergency Medical Service Response Time\*

Response Time (in minutes)

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.





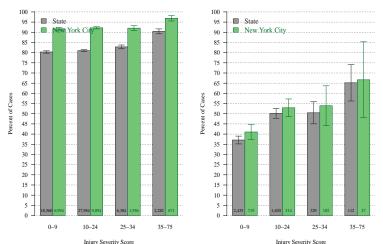
Emergency Medical Service Transport Time\* to Patient Appropriate Trauma Center\*\*

Time (in minutes)

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



### Adult Patients

Pediatric Patients

Registry data only includes data from patients that made it to a Trauma Center. Walk-ins excluded. 95% confidence intervals are shown around means.

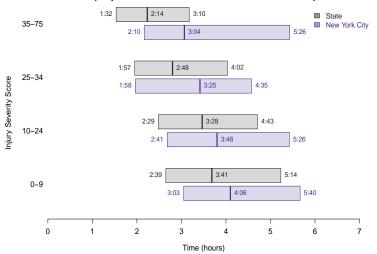
Appropriate trauma center means either pediatric or dual designated for patients under 15 and either adult or dual designated for patients over 15 years of age. 8

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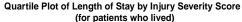
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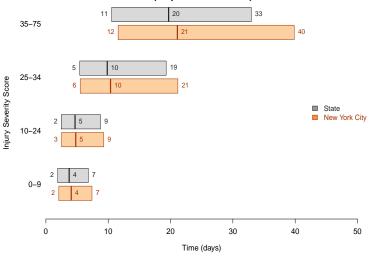
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Quartile Plot of Time at Referring Hospital by Injury Severity Score (for patients who where referred to a trauma center)









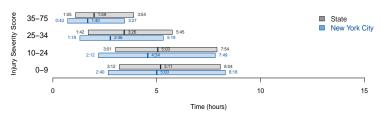
The quartile plot highlights the middle 50% of patients with the box. The center line denotes the median (the 50<sup>th</sup> percentile), 25% of patients therefore fall below the range of the box, and 25% fall above the range of the box.



## New York City (NYC) Complication Incidence and Mortality

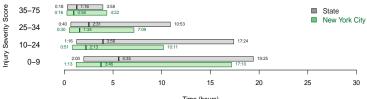
Complications	New Yo	ork City	Freque	ency (%)	Fatality	Rate (%
	Incidents	Fatalities	NYC	State	NYC	State
other unspecified	911	169	3.82	4.31	18.6	18.4
pneumonia	454	76	1.90	2.71	16.7	16.
acute lung injury	390	101	1.63	2.25	25.9	24.0
new urinary tract infection	355	20	1.49	1.96	5.6	8.
severe sepsis	206	52	0.86	0.93	25.2	33.
acute kidney injury	201	51	0.84	0.89	25.4	28.
withdrawal from alcohol or drugs	175	4	0.73	0.94	2.3	2.
deep vein thrombosis	130	7	0.54	0.83	5.4	9.
new decubitus ulcer	103	14	0.43	0.69	13.6	13.4
cardiac arrest in hospital	102	89	0.43	0.88	87.3	82.
unplanned intubation	81	22	0.34	0.62	27.2	28.
extremity compartment syndrome	58	3	0.24	0.31	5.2	4.
pulmonary embolism	48	6	0.20	0.35	12.5	13.
superficial surgical site infection	48	1	0.20	0.19	2.1	2.
new myocardial infarction	29	11	0.12	0.24	37.9	33.
deep surgical site infection	26	4	0.11	0.13	15.4	7.
new stroke or cerebral vascular accident	24	2	0.10	0.14	8.3	18.
catheter related blood stream infection	23	4	0.10	0.10	17.4	14.
unplanned return to ICU	22	3	0.09	0.13	13.6	12.
organ or space surgical site infection	8	0	0.03	0.11	0.0	4.
new bone infection	6	0	0.03	0.03	0.0	0.
failure of graft, flap, or prosthesis	3	0	0.01	0.03	0.0	0.





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

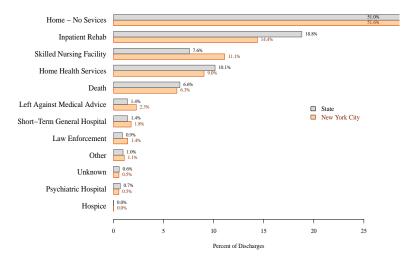
### Quartile Plot of Time Until First Procedure by Injury Severity Score



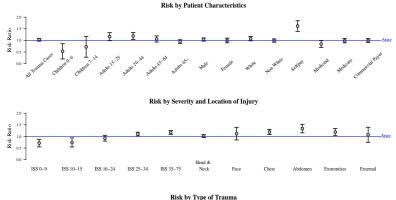
Time (hours)



### **Discharge Destination**









Risk Ratio = observed 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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Categories		New York Ci	ty Region (N)	(C)	Compa	arison*
	N	Observed	Expected	Risk Ratio	State	NYC
Overall						
All Trauma Cases	19,298	6.1%	6.0%	$1.0 \pm 0.1$	6.6%	6.7%
Age						
Children 0-6	593	1.7%	3.2%	$0.5 \pm 0.3$	2.3%	1.2%
Children 7-14	589	1.7%	2.4%	$0.7 \pm 0.4$	2.1%	1.5%
Adults 15-25	3,251	5.0%	4.3%	1.2 ±0.2	4.7%	5.4%
Adults 26-44	4,343	5.2%	4.4%	1.2 ±0.2	4.6%	5.5%
Adults 45-64	4,237	5.5%	5.2%	1.1 ±0.1	5.5%	5.8%
Adults 65+	5,879	8.9%	9.3%	$1.0 \pm 0.1$	10.6%	10.1%
Gender						
Male	13,175	6.2%	6.0%	$1.0 \pm 0.1$	6.8%	7.0%
Female	6,123	6.0%	6.0%	$1.0 \pm 0.1$	6.2%	6.2%
Race						
White	6,587	7.2%	6.6%	1.1 ±0.1	6.9%	7.4%
Non White	12,711	5.6%	5.6%	$1.0 \pm 0.1$	5.9%	5.9%
Primary Payor						
Selfpay	1,754	9.8%	6.1%	1.6 ±0.2	10.0%	16.2%
Medicaid	2,929	4.1%	4.9%	0.8 ±0.1	4.0%	3.4%
Medicare	4,962	8.3%	8.4%	$1.0 \pm 0.1$	9.8%	9.7%
Commercial Payer	8,938	5.1%	5.1%	1.0 ±0.1	5.2%	5.2%

# New York City Regional Risk Adjusted Fatality Rates

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



Categories		New York C	ity Region (N	YC)	Compa	arison*
	N	Observed	Expected	Risk Ratio	State	NYC
Injury Severity Score (ISS)						
ISS 0-9	7,218	1.0%	1.4%	$0.7 \pm 0.2$	1.8%	1.3%
ISS 10-15	4,368	1.3%	1.7%	$0.7 \pm 0.2$	1.8%	1.4%
ISS 16-24	5,313	3.9%	4.2%	0.9 ±0.1	4.3%	4.0%
ISS 25-34	1,819	28.0%	25.4%	$1.1 \pm 0.1$	25.2%	27.7%
ISS 35-75	580	58.1%	49.6%	$1.2 \pm 0.1$	44.6%	52.3%
Location of Injury						
Head & Neck	9,412	9.5%	9.4%	$1.0 \pm 0.1$	10.5%	10.7%
Face	363	15.4%	13.8%	1.1 ±0.3	15.0%	16.8%
Chest	4,001	9.7%	8.2%	$1.2 \pm 0.1$	8.6%	10.3%
Abdomen	1,463	12.3%	9.2%	1.3 ±0.2	10.5%	14.1%
Extremities	3,914	5.5%	4.6%	1.2 ±0.2	5.7%	6.7%
External	100	30.0%	28.0%	$1.1 \pm 0.3$	33.6%	36.0%
Falls						
Low Falls	7,734	6.6%	6.8%	$1.0 \pm 0.1$	8.0%	7.7%
Other Falls	978	5.7%	4.7%	$1.2 \pm 0.3$	3.8%	4.7%
Motor Vehical Traffic (MVT)						
MVT Occupant	1,698	4.2%	3.7%	1.1 ±0.3	5.7%	6.4%
MVT Pedestrian	2,329	9.1%	8.3%	1.1 ±0.1	9.9%	10.9%
MVT Motorcyclist	625	5.9%	4.7%	$1.3 \pm 0.4$	5.2%	6.6%
Other						
Firearm	1,540	10.3%	9.8%	1.1 ±0.2	12.8%	13.5%
Penetrating	2,386	7.7%	7.2%	1.1 ±0.1	9.1%	9.8%

# New York City Regional Risk Adjusted Fatality Rates

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<sup>†</sup> (ED) Visits NYC Residents, 2010-2012

		De	aths	Hospit	alizations	ED Visits		
		Mean Annual	Rate per 100,000	Mean Annual	Rate per 100,000	Mean Annual	Rate per 100,000	
		Frequency	Residents	Frequency	Residents	Frequency	Residents	
	Total	2,698	32.4	66,543	798.1	544,207	6,527.1	
	0<1	57	48.1	542	454.7	6,732	5,644.3	
	1-4	20	4.5	1,606	367.8	47,857	10,959.7	
	5-9	9	1.8	1,062	212.3	36,173	7,233.3	
lge Group	10-14	19	4	1,278	271.5	38,373	8,150.3	
	15-19	111	21.9	2,708	532.3	43,520	8,554.2	
8	20-24	213	34.1	3,559	570.4	51,260	8,215.3	
<	25-44	807	31.2	12,847	497	164,329	6,356.7	
	45-64	868	42.1	16,794	814.6	108,237	5,250.2	
	65+	594	57.6	26,146	2,535.1	47,726	4,627.4	
Gender	Male	1,916	48.1	35,488	884.6	291,167	7,307.8	
	Female	782	18	31,054	712.7	253,031	5,812.3	
ő	Unknown	0	n/a	•	n/a	10	n/a	
	t Traumatic		9%	1	2%		8%	
Brain II	jury	23%			276	52		
Mean (	harge per							
lospita	lization or ED		n/a	\$39	9,299	\$1,514		
/isit			-					
	One Year Total							
Hospita	lization or ED		n/a	\$2,615	,037,540	\$824,0	029,617	
visit Cl	arges Jear Total							
Hospitalization or ED		n/a		\$7,845	,112,620	\$2,472,088,850		
visit Cl	arges							
	e Length of		n/a		7		n/a	
Hospital Stay (Days)			4 d		,		<i>y</i> <b>u</b>	

"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





#### Emergency Department (ED)<sup>+</sup> Visits Due to Injury Leading Causes by Age Group NYC 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		
	Fall	Fall	Fall	Fall	Fall	Fall	Fall	Fall	Fall	Fall		
										155624 (29%)		
1	3,627 (54%)	20,413 (43%)	13,479 (37%)	10,980 (29%)	7,526 (17%)	7,880 (15%)	30,606 (19%)	33,150 (31%)	27,964 (59%)	155624 (29%)		
	Struck By, Against	Struck By, Against	Struck By, Against	Struck By, Against	Struck By, Against	Assault	Assault	Struck By, Against	Unspecified	Struck By, Against		
2	541 (8%)	6,584 (14%)	6,824 (19%)	8,076 (21%)	7,238 (17%)	7,857 (15%)	18,616 (11%)	9,434 ( 9%)	3,503 (7%)	64,241 (12%)		
		Natural /	Natural /									
	Unspecified	Environmental	Environmental	Overexertion	Assault	Struck By, Against	Struck By, Against	Unspecified	Struck By, Against	Assault		
3	420 ( 6%)	4,472 ( 9%)	2,756 ( 8%)	3,280 ( 9%)	6,770 (16%)	5,750 (11%)	17,009 (10%)	9,329 ( 9%)	2,785 ( 6%)	45,249 (8%)		
	Natural /											
	Environmental	Unspecified	Unspecified	Assault	Overexertion	Cut / Pierce	Cut / Pierce	Overexertion	Cut / Pierce	Overexertion		
4	393 ( 6%)	2,657 ( 6%)	1,960 ( 5%)	2,835 ( 7%)	4,348 (10%)	5,033 (10%)	16,495 (10%)	9,043 ( 8%)	1,959 ( 4%)	40,749 ( 7%)		
	Hot Object / Scald	Cut / Pierce	Cut / Pierce	Unspecified	Cut / Pierce	MVT^, Occupant	Overexertion	Cut / Pierce	MVT^, Occupant	Cut / Pierce		
5	204 ( 3%)	1,632 (3%)	1,711 ( 5%)	2,261 ( 6%)	2,982 ( 7%)	4,573 ( 9%)	15,554 ( 9%)	8,289 ( 8%)	1,876 (4%)	40,110 ( 7%)		
	MVT <sup>A</sup> , Occupant	Overexertion	Overexertion	Cut / Pierce	Unspecified	Overexertion	MVT^. Occupant	MVTA, Occupant	Overexertion	Unspecified		
6	169 (3%)	1,371 (3%)	1,209 (3%)	1.871 (5%)	2,775 ( 6%)	4.043 (8%)	14,478 ( 9%)	8.140 (8%)	1,791 (4%)	39,731 ( 7%)		
-				Natural /			,,		Natural /			
	Cut / Pierce	Poisoning	MVT^, Occupant	Environmental	MVT^, Occupant	Unspecified	Unspecified	Assault	Environmental	MVT^, Occupant		
7	138 ( 2%)	1,231 (3%)	958 (3%)	1,509 (4%)	2,058 ( 5%)	3,691 (7%)	13,135 (8%)		1,152 (2%)	33,873 (6%)		
					Natural /	Natural /	Natural /	Natural /		Natural /		
	Poisoning	Hot Object / Scald	Assault	MVT^, Occupant	Environmental	Environmental	Environmental	Environmental	Assault	Environmental		
8	136 ( 2%)	942 (2%)	743 (2%)	924 (2%)	1,511 (3%)	1,985 (4%)	5,339 ( 3%)	3,616 ( 3%)	748 (2%)	22,733 ( 4%)		
			Pedal Cyclist, Non-									
	Overexertion	MVT^, Occupant	Traffic	MVT <sup>^</sup> , Pedestrian	MVT^, Pedestrian	MVT^, Pedestrian	MVT^, Pedestrian	MVT^, Pedestrian	MVT^, Pedestrian	MVT <sup>A</sup> , Pedestrian		
9	109 ( 2%)	697 (1%)	582 (2%)	655 (2%)	736 ( 2%)	857 (2%)	2,445 (1%)	1,900 ( 2%)	716 (1%)	7,853 (1%)		
				Pedal Cyclist, Non-	Pedal Cyclist, Non-							
	Suffocation	Suffocation	Hot Object / Scald	Traffic	Traffic	Hot Object / Scald	Hot Object / Scald	Hot Object / Scald	Poisoning	Hot Object / Scald		
10	89 (1%)	367 (1%)	416 (1%)	595 (2%)	510 (1%)	584 (1%)	1,770 ( 1%)	1,121 ( 1%)	358 (1%)	5,903 (1%)		
					fearly Average (percent	t of age group)						

MVT^ = Motor Vehicle Traffic

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



Source: NYSDOH. Bureau of Occupational Health and Iniury Prevention

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#### Hospitalizations Due to Injury Leading Causes by Age Group NYC 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	
	Fall	Fall	Fall	Fall	Assessite	Assessit	Fall	Fall	Fall	Fall	
		491 (31%)		369 (29%)	830 (31%)	1.083 (30%)		6.052 (36%)	18.233 (70%)	29.202 (44%)	
1	226 (42%)	491 (31%)	457 (43%)	369 (29%)	830 (317)	1,083 (30%)	2,589 (20%)	6,052 (36%)	18,233 (70%)	29,202 (44%)	
	Hot Object / Scald	Hot Object / Scald	MVT^, Pedestrian	MVT^, Pedestrian	Self-Inflicted	Fall	Assault	Poisoning	Unspecified	Assault	
2	83 (15%)	284 (18%)	86 (8%)	135 (11%)	423 (16%)	450 (13%)	2,279 (18%)	2,114 (13%)	1,756 ( 7%)	5,627 (8%)	
			Natural /								
	Unspecified	Poisoning	Environmental	Assault	Fall	Self-Inflicted	Self-Inflicted	Unspecified	Poisoning	Poisoning	
3	40 ( 7%)	181 (11%)	84 ( 8%)	124 (10%)	335 (12%)	444 (12%)	1,280 (10%)	1,194 (7%)	832 (3%)	4,760 ( 7%)	
		Natural /							Natural /		
	Assault	Environmental	Hot Object / Scald	Self-Inflicted	MVT^, Occupant	MVT^, Occupant	Poisoning	Assault	Environmental	Unspecified	
4	34 ( 6%)	158 (10%)	64 ( 6%)	100 (8%)	122 ( 4%)	243 ( 7%)	1,243 (10%)	1,053 (6%)	465 ( 2%)	3,942 ( 6%)	
	Poisoning	Struck By, Against	Struck By, Against	Struck By, Against	Struck By, Against	Poisoning	Unspecified	Self-Inflicted	MVT <sup>A</sup> , Pedestrian	Self-Inflicted	
5	25 ( 5%)	62 ( 4%)	59 ( 6%)	99 ( 8%)	121 ( 4%)	181 ( 5%)	656 (5%)	872 (5%)	434 ( 2%)	3,351 (5%)	
				Natural /							
	Suffocation	Unspecified	Poisoning	Environmental	MVT <sup>A</sup> , Pedestrian	MVT^, Pedestrian	MVT <sup>A</sup> , Occupant	MVT <sup>A</sup> , Pedestrian	MVT^, Occupant	MVT <sup>A</sup> , Pedestrian	
6	21 (4%)	51 ( 3%)	35 ( 3%)	58 ( 5%)	117 (4%)	135 ( 4%)	597 (5%)	589 (4%)	331 (1%)	1,978 (3%)	
	Natural / Environmental	MVT^. Pedestrian	Unspecified	Poisoning	Poisoning	Unspecified	MVTA Pedestrian	Natural / Environmental	Struck By, Against	MVTA, Occupant	
							,				
7	19 ( 4%)	34 ( 2%)	32 ( 3%)	42 ( 3%)	108 ( 4%) Natural /	105 ( 3%)	446 ( 3%) Natural /	503 ( 3%)	277 (1%)	1,807 (3%)	
	Struck By, Against	Sufforation	Cut / Pierce	Unspecified	Environmental	MVT^. Motorcyclist	Fovironmental	MVT <sup>A</sup> , Occupant	Suffocation	Struck By, Against	
8	13 (2%)	28 ( 2%)	27 (3%)	41 (3%)	74 (3%)	93 ( 3%)	396 (3%)	465 (3%)	243 (1%)	1.341 (2%)	
0	13 (12%)	20 ( 270)	Pedal Cyclist, Non-	Pedal Cyclist, Non-	74(374)	Natural /	350 ( 574)	405 ( 5/4)	245 ( 2/4)	1,341 (12/2)	
	Fire / Flame	Assault	Traffic	Traffic	Unspecified	Environmental	Struck By, Against	Struck By, Against	Self-Inflicted	Hot Object / Scald	
9	5 (1%)	23 (1%)	26 ( 2%)	39 ( 3%)	67 (2%)	88 (2%)	315 (2%)	309 (2%)	223 (1%)	1,066 (2%)	
	Drowning /										
	Submersion	Cut / Pierce	MVT^, Occupant	Cut / Pierce	Cut / Pierce	Struck By, Against	Cut / Pierce	Cut / Pierce	Assault	Cut / Pierce	
10	4 (1%)	23 (1%)	18 ( 2%)	28 ( 2%)	62 ( 2%)	87 (2%)	268 (2%)	233 (1%)	186 (1%)	796 (1%)	
					fearly Average (percen	t of age group)					

MVT^ = Motor Vehicle Traffic

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



Source: NYSDOH. Bureau of Occupational Health and Iniury Prevention

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#### Injury Related Deaths Leading Causes by Age Group NYC 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	Suffocation 12 (22%)	Homicide 8 (41%)	Homicide 3 (37%)	Suicide 4 (21%)	Homicide 61 (55%)	Homicide 93 (44%)	Poisoning 238 (30%)	Poisoning 309 (36%)	Fall 279 (47%)	Poisoning 606 (22%)	
2	Homicide 10 (17%)	MVT^, Pedestrian 3 (14%)	•	Homicide 4 (19%)	Suicide 18 (16%)	Suicide 33 (16%)	Homicide 208 (26%)	Suicide 192 (22%)	Suicide 75 (13%)	Suicide 485 (18%)	
3	•	•		MVT^, Pedestrian 3 (18%)	Poisoning 7 ( 6%)	Poisoning 28 (13%)	Suicide 162 (20%)	Homicide 74 (9%)	MVT^, Pedestrian 54 ( 9%)	Homicide 481 (18%)	
4	•	•	•	•	MVT <sup>A</sup> , Unspecified 5 ( 4%)	MVT <sup>A</sup> , Unspecified 10 ( 5%)	MVT <sup>A</sup> , Pedestrian 31 ( 4%)	Fall 66 ( 8%)	Fire / Flame 24 ( 4%)	Fall 380 (14%)	
5		•	•		MVT^, Pedestrian 4 (4%)	MVT^, Pedestrian 7 (3%)	Fall 26 ( 3%)	MVT <sup>A</sup> , Pedestrian 43 ( 5%)	Poisoning 22 ( 4%)	MVT <sup>A</sup> , Pedestrian 146 ( 5%)	
6	•	•		•	MVT^, Occupant 3 ( 3%)	Fall 5 ( 3%)	MVT^, Motorcyclist 22 ( 3%)	Natural / Environmental 14 ( 2%)	Homicide 20 ( 3%)	MVT^, Unspecified 55 ( 2%)	
7		•		•	MVT^, Pedal Cyclist 2 ( 2%)	MVT^, Motorcyclist 4 ( 2%)	MVT^, Unspecified 13 ( 2%)	Fire / Flame 14 ( 2%)	Natural / Environmental 14 ( 2%)	Fire / Flame 48 ( 2%)	
8		•		•	•	MVT^, Occupant 4 ( 2%)	MVT^, Occupant 9 ( 1%)	MVT^, Unspecified 14 ( 2%)	Unspecified 14 ( 2%)	Suffocation 45 ( 2%)	
9						MVT^, Pedal Cyclist 3 ( 1%)	Fire / Flame 6 (1%)	Suffocation 13 ( 1%)	Suffocation 11 ( 2%)	Natural / Environmental 36 ( 1%)	
10				•		Pedestrian, Non- Traffic 2 ( 1%)	Suffocation 5 ( 1%)	MVT^, Occupant 8 (1%)	MVT^, Unspecified 11 ( 2%)	MVT^, Occupant 34 ( 1%)	
					Yearly Average (percen	t of age group)					

MVT^ = Motor Vehicle Traffic

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

Intentional Injury Unintentional Iniury Source: NYSDOH. Bureau of Occupational Health and Iniury Prevention



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