

Vital Signs Data Tables

New York City Department of Health and Mental Hygiene

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Understanding Child Injury Deaths: 1999-2013 Child Fatality Review Advisory Team Report

Data Tables

- Table 1.** Annual child injury deaths by intent, NYC vs. US, 1999-2013
- Table 2.** Child injury deaths by intent, NYC vs. US, 1999-2003, 2004-2008, 2009-2013
- Table 3.** Child injury deaths by cause, NYC, 1999-2003, 2004-2008, 2009-2013
- Table 4.** Unintentional child injury deaths by cause, NYC, 1999-2003, 2004-2008, 2009-2013
- Table 5.** Intentional child injury deaths by cause, NYC, 1999-2003, 2004-2008, 2009-2013
- Table 6.** Child injury deaths by age, sex, race/ethnicity, borough of residence, and area-based poverty, NYC, 1999-2003, 2004-2008, 2009-2013
- Table 7.** Unintentional child injury deaths by age, sex, race/ethnicity, borough of residence, and area-based poverty, NYC, 1999-2003, 2004-2008, 2009-2013
- Table 8.** Intentional child injury deaths by age, sex, race/ethnicity, borough of residence, and area-based poverty, NYC, 1999-2003, 2004-2008, 2009-2013
- Table 9.** Unintentional motor vehicle and fire-related child injury deaths by race/ethnicity, 1999-2003, 2004-2008, 2009-2013
- Table 10.** Suicides by race/ethnicity, NYC vs. US, 1999-2013
- Table 11.** Unnatural deaths due to therapeutic complication, NYC vs. US, 1999-2003, 2004-2008, 2009-2013
- Appendix** Glossary of injury mechanism terminology

Data Sources

NYC DOHMH Bureau of Vital Statistics: Injury death information was obtained from death certificates collected by the NYC DOHMH's Bureau of Vital Statistics. To classify intent and mechanism, we followed the National Center for Health Statistics external cause of injury matrix (based on the International Classification of Diseases, 10th Revisions ((ICD-10) codes) excluding injuries caused by legal intervention, available at: http://www.cdc.gov/nchs/injury/injury_tools.htm. The following ICD-10 codes were used to identify injury deaths: V01-X59, X85-Y09, X60-X84, Y10-Y34.

US Mortality Data: National data were obtained from the Centers for Disease Control's (CDC) **Wide-ranging Online Data for Epidemiologic Research (WONDER)**. Data were accessed July 2015 at: <http://wonder.cdc.gov/>.

DOHMH Population Estimates: Age-specific population rates were calculated using NYC DOHMH population estimates, modified from U.S. Census Bureau intercensal population estimates from 2000-2014 and last updated October 13, 2015. Population estimates from 2000 were used to calculate rates for 1999.

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To access the related Vital Signs, go to www1.nyc.gov/assets/doh/downloads/pdf/survey/survey-2016cfrat-report.pdf



Table 1. Annual child injury deaths by intent, NYC vs. US, 1999-2013

Sources: CDC WONDER and DOHMH Vital Records

Year	All Intents		NYC		Intentional		US		Unintentional		Intentional	
	N	Rate ¹	N	Rate ¹	N	Rate ¹	N	Rate ¹	N	Rate ¹	N	Rate ¹
1999	61	4.6	43	3.3	16	1.2	4,973	10.3	4184	8.7	714	1.5
2000	64	4.9	43	3.3	20	1.5	4,768	9.9	4,031	8.3	666	1.4
2001 ²	58	4.5	37	2.9	18	1.4	4,565	9.5	3,786	7.8	706	1.5
2002	56	4.4	44	3.4	8	0.6*	4,414	9.1	3,576	7.4	736	1.5
2003	48	3.8	29	2.3	13	1.0	4,260	8.9	3,548	7.4	648	1.3
2004	47	3.8	39	3.2	8	0.7*	4,227	8.8	3,496	7.3	643	1.3
2005	55	4.6	34	2.8	17	1.4	4,126	8.6	3,369	7.0	649	1.4
2006	54	4.6	30	2.6	23	2.0	3,995	8.3	3,244	6.8	660	1.4
2007	47	4.1	36	3.1	9	0.8*	3,846	8.0	3,108	6.5	657	1.4
2008	51	4.4	37	3.2	12	1.0	3,577	7.4	2,798	5.8	668	1.4
2009	31	2.7	22	1.9	5	0.4*	3,478	7.1	2,719	5.6	655	1.3
2010	41	3.5	21	1.8	18	1.5	3,328	6.8	2,577	5.3	621	1.3
2011	22	1.9	12	1.0	9	0.8*	3,343	6.8	2,554	5.2	685	1.4
2012	42	3.5	23	1.9	15	1.3	3,240	6.6	2,506	5.1	625	1.3
2013	46	3.8	26	2.2	16	1.3	3,184	6.5	2,455	5.0	633	1.3
Yearly Average	48	3.9	32	2.6	14	1.1	3,955	8.2	3,197	6.6	664	1.4

¹Rate per 100,000

²Excludes 18 NYC deaths from a single unintentional plane crash event

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable.

Table 2. Child injury deaths by intent, NYC vs. US, 1999-2003, 2004-2008, 2009-2013

Sources: CDC Wonder and DOHMH Vital Records

Intent	NYC						US					
	1999-2003 ²		2004-2008		2009-2013		1999-2003		2004-2008		2009-2013	
	N	Rate ¹	N	Rate ¹	N	Rate ¹	N	Rate ¹	N	Rate ¹	N	Rate ¹
Unintentional	196	3.0	176	3.0	104	1.8	19,125	7.9	16,015	6.7	12,811	5.2
Homicide	73	1.1	63	1.1	50	0.8	3,093	1.3	2,969	1.2	2,814	1.2
Suicide	2	0.0*	6	0.1*	13	0.2	377	0.2	308	0.1	405	0.2
Undetermined	16	0.2	9	0.2*	15	0.3	385	0.2	479	0.2	543	0.2
Total	287	4.5	254	4.3	182	3.1	22,980	9.5	19,771	8.2	16,573	6.8

¹Rate per 100,000

²Excludes 18 deaths from a single unintentional plane crash event

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable.

Table 3. Child injury deaths by cause, NYC, 1999-2003, 2004-2008, 2009-2013

Sources: DOHMH Vital Records

	1999-2003 ²				2004-2008				2009-2013			
	Rank	N	%	Rate ¹	Rank	N	%	Rate ¹	Rank	N	%	Rate ¹
All causes³		287	100	4.5		254	100	4.3		182	100	3.1
Fire/flare	1	72	25	1.1	2	57	22	1.0	4	19	10	0.3
MV traffic ⁴	2	64	22	1.0	1	67	26	1.1	1	44	24	0.7
Fall	3	24	8	0.4	6	13	5	0.2	6	11	6	0.2*
Suffocation	4	18	6	0.3	3	31	12	0.5	2	30	16	0.5
Other specified ⁵	5	17	6	0.3	5	14	6	0.2	8	9	5	0.2*
Not specified ⁶	6	14	5	0.2	4	18	7	0.3	3	21	12	0.4
Not Elsewhere Classified ⁷	6	14	5	0.2	6	13	5	0.2	11	5	3	0.1*
Drowning	7	12	4	0.2	7	12	5	0.2	9	7	4	0.1*
Firearm	8	11	4	0.2*	8	9	4	0.2*	12	4	2	0.1*
Struck by/against	9	10	3	0.2*	10	6	2	0.1*	13	2	1	0.0*
Cut/pierce	10	9	3	0.1*	11	4	2	0.1*	7	10	5	0.2*
Hot object/scald	11	7	2	0.1*	12	1	0	0.0*	-	0	0	0.0*
Other pedal cyclist	12	6	2	0.1*	12	1	0	0.0*	-	0	0	0.0*
Poisoning	13	5	2	0.1*	9	8	3	0.1*	5	13	7	0.2
Other pedestrian	14	2	1	0.0*	-	0	0	0.0*	-	0	0	0.0*
Natural/environmental	14	2	1	0.0*	-	0	0	0.0*	10	6	3	0.1*
Other land transport	-	0	0	0.0*	-	0	0	0.0*	14	1	1	0.0*

¹Rate per 100,000

²Excludes 18 deaths from a single plane crash event

³Causes include all intents

⁴Motor vehicle (MV) traffic-related

⁵34 of 40 NYC child deaths classified as Other Specified from 1999-2013 were homicides due to neglect and abandonment or other maltreatment (Y06-,Y07-)

⁶24 of 53 NYC child deaths classified as Not Specified from 1999-2013 were homicides due to assault by unspecified means (Y09-)

⁷24 of 32 NYC child deaths classified as Not Elsewhere Classified from 1999-2013 were homicides due to assaults or sequelae of assault (Y08-, Y87.1)

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable.

See appendix glossary for more information about classification of injury mechanisms

Percents may not sum to 100% due to rounding

Table 4. Unintentional child injury deaths by cause, NYC, 1999-2003, 2004-2008, 2009-2013

Sources: DOHMH Vital Records

	1999-2003 ²				2004-2008				2009-2013			
	Rank	N	%	Rate ¹	Rank	N	%	Rate ¹	Rank	N	%	Rate ¹
All causes		196	100	3.0		176	100	3.0		104	100	1.8
Leading causes³												
MV Traffic ⁴	1	64	33	1.0	1	67	38	1.1	1	44	42	0.7
Fire/flame	1	64	33	1.0	2	48	27	0.8	2	16	15	0.3
Fall	2	22	11	0.3	4	12	7	0.2	4	9	9	0.2*
Suffocation	3	11	6	0.2*	3	23	13	0.4	3	13	13	0.2
Other pedal cyclist	4	6	3	0.1*	9	1	1	0.0*	-	0	0	0.0*
Drowning	5	5	3	0.1*	5	9	5	0.2*	5	6	6	0.1*
Struck by/against	5	5	3	0.1*	6	6	3	0.1*	8	2	2	0.0*
Hot object/scald	5	5	3	0.1*	-	0	0	0.0*	-	0	0	0.0*

¹Rate per 100,000

²Excludes 18 deaths from a single plane crash event

³Displaying the top 5 causes of death (in any time period) and percents will not sum to 100%

⁴Motor vehicle (MV) traffic-related

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable.

See appendix glossary for more information about classification of injury mechanisms

Table 5. Intentional child injury deaths by cause, NYC, 1999-2003, 2004-2008, 2009-2013

Sources: DOHMH Vital Records

	1999-2003				2004-2008				2009-2013			
	Rank	N	%	Rate ¹	Rank	N	%	Rate ¹	Rank	N	%	Rate ¹
All causes		75	100	1.2		69	100	1.2		63	100	1.1
Leading causes³												
Other specified ²	1	16	21	0.2	1	12	17	0.2	4	6	10	0.1*
Not Elsewhere Classified ³	2	10	13	0.2*	2	10	14	0.2*	5	4	6	0.1*
Firearm	3	9	12	0.1*	3	9	13	0.2*	5	4	6	0.1*
Fire/flame	4	8	11	0.1*	3	9	13	0.2*	6	2	3	0.0*
Cut/pierce	4	8	11	0.1*	5	4	6	0.1*	3	10	16	0.2*
Suffocation	5	6	8	0.1*	4	8	12	0.1*	1	17	27	0.3*
Not specified ⁴	7	4	5	0.1*	3	9	13	0.2*	2	11	17	0.2*
Poisoning	8	2	3	0.0*	5	4	6	0.1*	4	6	10	0.1*

¹Rate per 100,000

²NYC intentional child deaths classified as Other Specified were homicides due to neglect and abandonment or other maltreatment (Y06-,Y07-)

³NYC intentional child deaths classified as Not Elsewhere Classified were homicides due to assaults or sequelae of assault (Y08-, Y87.1)

⁴NYC intentional child deaths classified as Not Specified were homicides due to assault by unspecified means (Y09-)

³Displaying the top 5 causes of death (in any time period) and percents will not sum to 100%

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable.

See appendix glossary for more information about classification of injury mechanisms

Table 6. Child injury deaths by age, sex, race/ethnicity, borough of residence, and area-based poverty, NYC, 1999-2003, 2004-2008, 2009-2013

Sources: DOHMH Vital Records

Demographic Factor	1999-2003 ²			2004-2008			2009-2013		
	N	%	Rate ¹	N	%	Rate ¹	N	%	Rate ¹
Age									
1 to 2	70	24	6.7	80	31	7.7	61	34	5.6
3 to 4	63	22	6.0	41	16	4.0	41	23	4.0
5 to 9	94	33	3.5	76	30	3.3	45	25	1.9
10 to 12	60	21	3.6	57	22	3.7	35	19	2.5
Sex									
Male	171	60	5.2	143	56	4.7	113	62	3.8
Female	116	40	3.7	111	44	3.8	69	38	2.4
Race/ethnicity									
Non-Hispanic White	64	22	4.1	44	17	2.9	37	20	2.4
Non-Hispanic Black	124	43	6.5	124	49	7.8	79	43	5.6
Hispanic	67	23	3.0	71	28	3.4	42	23	2.0
Asian	20	7	3.2	12	5	1.9	19	10	2.7
Borough									
Bronx	71	25	5.2	53	21	4.3	51	28	4.2
Brooklyn	121	42	5.6	114	45	5.7	67	37	3.3
Manhattan	22	8	2.5	24	9	3.0	19	10	2.4
Queens	59	21	3.5	43	17	2.8	33	18	2.1
Staten Island	14	5	3.7	20	8	5.6	12	7	3.4
Area-Based Poverty³									
Low	18	6	2.0	26	10	3.0	20	11	2.2
Medium	72	25	4.0	59	23	3.6	42	23	2.5
High	96	33	4.7	88	35	4.8	57	31	3.2
Very High	101	35	5.9	81	32	5.2	63	35	4.1
Total	287	100	4.5	254	100	4.3	182	100	3.1

¹Rate per 100,000

²Excludes 18 deaths from a single plane crash event

³Area-based poverty defined as proportion of residents in a ZIP Code with incomes below 100% of the Federal Poverty Level (FPL) American Community Survey (2009-2013), in four categories: Low (<10% FPL), Medium (10%-<20% FPL), High (20%-<30% FPL), and Very High Poverty (≥30% FPL)

Percents may not sum to 100% due to rounding. Other race/ethnicity not displayed due to small numbers.

Table 7. Unintentional child injury deaths by age, sex, race/ethnicity, borough of residence, and area-based poverty, NYC, 1999-2003, 2004-2008, 2009-2013

Sources: DOHMH Vital Records

Demographic Factor	1999-2003 ²			2004-2008			2009-2013		
	N	%	Rate ¹	N	%	Rate ¹	N	%	Rate ¹
Age									
1 to 2	36	18	3.4	45	26	4.3	27	26	2.5
3 to 4	42	21	4.0	27	15	2.7	27	26	2.6
5 to 9	73	37	2.7	62	35	2.7	29	28	1.2
10 to 12	45	23	2.7	42	24	2.7	21	20	1.5
Sex									
Male	124	63	3.8	112	64	3.7	67	64	2.2
Female	72	37	2.3	64	36	2.2	37	36	1.3
Race/ethnicity									
Non-Hispanic White	47	24	3.0	38	22	2.5	27	26	1.8
Non-Hispanic Black	84	43	4.4	79	45	5.0	36	35	2.5
Hispanic	42	21	1.9	48	27	2.3	29	28	1.4
Asian	17	9	2.7	8	5	1.3*	10	10	1.4*
Borough									
Bronx	37	19	2.7	37	21	3.0	29	28	2.4
Brooklyn	87	44	4.0	79	45	4.0	35	34	1.7
Manhattan	17	9	2.0	15	9	1.8	11	11	1.4*
Queens	43	22	2.6	32	18	2.1	22	21	1.4
Staten Island	12	6	3.2	13	7	3.6	7	7	2.0*
Area-Based Poverty³									
Low	12	6	1.3	23	13	2.6	15	14	1.7
Medium	49	25	2.7	49	28	3.0	27	26	1.6
High	72	37	3.5	46	26	2.5	28	27	1.6
Very High	63	32	3.7	58	33	3.7	34	33	2.2
Total	196	100	3.0	176	100	3.0	104	100	1.8

¹Rate per 100,000

²Excludes 18 deaths from a single plane crash event

³Area-based poverty defined as proportion of residents in a ZIP Code with incomes below 100% of the Federal Poverty Level (FPL) American Community Survey (2009-2013), in four categories: Low (<10% FPL), Medium (10%-<20% FPL), High (20%-<30% FPL), and Very High Poverty (≥30% FPL)

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable.

Percents may not sum to 100% due to rounding. Other race/ethnicity not displayed due to small numbers.

Table 8. Intentional child injury deaths by age, sex, race/ethnicity, borough of residence, and area-based poverty, NYC, 1999-2003, 2004-2008, 2009-2013

Sources: DOHMH Vital Records

Demographic Factor	1999-2003			2004-2008			2009-2013		
	N	%	Rate ¹	N	%	Rate ¹	N	%	Rate ¹
Age									
1 to 2	24	32	2.3	31	45	3.0	23	37	2.1
3 to 4	20	27	1.9	11	16	1.1*	11	17	1.1*
5 to 9	20	27	0.7	13	19	0.6	15	24	0.6
10 to 12	11	15	0.7*	14	20	0.9	14	22	1.0
Sex									
Male	38	51	1.2	29	42	1.0	38	60	1.3
Female	37	49	1.2	40	58	1.4	25	40	0.9
Race/ethnicity									
Non-Hispanic White	8	11	0.5*	3	4	0.2*	7	11	0.5*
Non-Hispanic Black	37	49	1.9	42	61	2.7	34	54	2.4
Hispanic	23	31	1.0	22	32	1.1	13	21	0.6
Asian	1	1	0.2*	2	3	0.3*	7	11	1.0*
Borough									
Bronx	29	39	2.1	16	23	1.3	16	25	1.3
Brooklyn	26	35	1.2	30	43	1.5	27	43	1.3
Manhattan	5	7	0.6*	8	12	1.0*	6	10	0.8
Queens	13	17	0.8	9	13	0.6*	9	14	0.6
Staten Island	2	3	0.5*	6	9	1.7*	5	8	1.4
Area-Based Poverty²									
Low	6	8	0.7*	3	4	0.3*	4	6	0.4*
Medium	15	20	0.8	7	10	0.4*	11	17	0.7*
High	19	25	0.9	36	52	2.0	24	38	1.3
Very High	35	47	2.1	23	33	1.5	24	38	1.6
Total	75	100	1.2	69	100	1.2	63	100	1.1

¹Rate per 100,000

²Area-based poverty defined as proportion of residents in a ZIP Code with incomes below 100% of the Federal Poverty Level (FPL) American Community Survey (2009-2013), in four categories: Low (<10% FPL), Medium (10%-<20% FPL), High (20%-<30% FPL), and Very High Poverty (≥30% FPL)

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable. Percents may not sum to 100% due to rounding. Other race/ethnicity not displayed due to small numbers.

Table 9. Unintentional motor vehicle and fire-related child injury deaths by race/ethnicity, 1999-2003, 2004-2008, 2009-2013

Sources: DOHMH Vital Records

Race/ethnicity	Motor vehicle-related						Fire-related					
	1999-2003		2004-2008		2009-2013		1999-2003		2004-2008		2009-2013	
	N	Rate ¹	N	Rate ¹	N	Rate ¹	N	Rate ¹	N	Rate ¹	N	Rate ¹
Non-Hispanic White	16	1.0	15	1.0	14	0.9	17	1.1	10	0.7*	2	0.1*
Non-Hispanic Black	30	1.6	32	2.0	9	0.6*	28	1.5	23	1.5	11	0.8*
Hispanic	13	0.6	14	0.7	13	0.6	9	0.4*	13	0.6	3	0.1*
Total	64	1.0	67	1.1	44	0.7	64	1.0	48	0.8	16	0.3

¹Rate per 100,000

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable.

Asian and other race/ethnicity not displayed due to small numbers.

Table 10. Suicides by race/ethnicity, NYC vs. US, 1999-2013

Sources: CDC WONDER and DOHMH Vital Records

Race/Ethnicity	NYC		US	
	N	Rate ¹	N	Rate ¹
Non-Hispanic White	3	0.1*	583	0.1
Non-Hispanic Black	9	0.2*	267	0.2
Hispanic	7	0.1*	180	0.1
Asian	2	0.1*	26	0.1

¹Rate per 100,000

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable.

Table 11. Unnatural deaths due to therapeutic complication, NYC vs. US, 1999-2003, 2004-2008, 2009-2013

Sources: CDC WONDER and DOHMH Vital Records

Year	NYC		US	
	N	Rate ¹	N	Rate ¹
1999-2003	4	0.1*	197	0.1
2004-2008	2	0.0*	174	0.1
2009-2013	1	0.0*	160	0.1

¹Rate per 100,000

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, making the estimate potentially unreliable.

Appendix: Glossary of injury intent and mechanism terminology

This report uses the following terms to describe the intent of actions that lead to the injury death:

Unintentional:	injury death that occurred without intent to cause harm, also known as "accident."
Intentional:	injury death that occurred with the intent to cause harm.
Homicide:	Intentional death resulting from injuries inflicted by another person.
Suicide:	Intentional death resulting from self-harm.
Undetermined:	Injury death for which the intent cannot be determined.

This report uses the following terms to describe the mechanism that cause the injury death:

Cut/pierce:	death resulting from an incision, slash, penetration, or puncture or sharp instrument, weapon, or object.
Drowning:	death resulting from submersion in water or other liquid.
Fall-related:	death from any injury received when someone descends abruptly as a result of a the force of gravity and strikes a surface at the same or lower level.
Fire/flame related:	death caused by an injury resulting from severe exposure to flames, heat or smoke inhalation.
Firearm:	death resulting from penetrating force injury from a bullet or other projectile shot from a powder-charged gun.
Hot object/scald:	death resulting from contact with heat, hot substances, or hot objects.
Natural/environmental:	death resulting from exposure to adverse natural and environmental conditions (e.g., severe heat, severe cold, lightning, tornadoes, and natural disasters), as well as lack of food or water.
Not Elsewhere Classified:	death resulting from an injury not classifiable in another category.
Not specified:	death from an injury missing either the manner (e.g., intentional, unintentional) or mechanism (e.g., Motor vehicle, firearm) of the injury.
Other land transport:	death resulting from other land transportation-related crashes, excluding injuries to pedal cyclists and pedestrians.
Other pedal cyclist:	death caused by injuries to a pedal cyclist from a non-motor vehicle transportation-related crash.
Other pedestrian:	death caused by injuries to a pedestrian from a non-motor vehicle transportation-related crash.
Other specified:	death from an injury associated with any other specified cause that does not fit another category.
Motor vehicle-related:	death caused by injuries from a motor vehicle collision including injuries to a motor vehicle occupant, pedestrian, or pedal cyclist.
Poisoning:	death resulting from ingestion, inhalation, absorption through the skin, or injection of so much of a drug, toxin, or other chemical that a harmful effect results (e.g., drug overdoses). This category does not include harmful effects from normal therapeutic drugs (i.e., unexpected adverse effects to a drug administered correctly to treat a condition) or bacterial illnesses.
Struck by/against:	death resulting from being struck by (i.e., hit) or crushed by a human, animal, or inanimate object or force other than a vehicle or machinery.
Suffocation:	death from injuries due to inhalation, aspiration, or ingestion of food or other object (e.g., choking), and mechanical suffocation (e.g., hanging). Note: most suffocation deaths among younger children (aged 1 to 9) were unintentional choking and among older children (aged 10 to 12) were suicide by hanging.

Note: The above mechanisms are based on the International Classification of Diseases (ICD) Injury matrices, which are frameworks designed to organize ICD coded injury data into meaningful groupings for national and international comparability. Source: NCHS. ICD-10: External cause of injury mortality matrix. Available from: http://www.cdc.gov/nchs/injury/injury_matrices.htm