

Childhood Injury Report

**An analysis of Stark County Hospital
emergency room visits for children
14 and under**

**4th Annual Report
January 1, 2005 - December 31, 2005**



REPORT PREPARED BY:

Safe Kids Stark County
Data & Research Committee
&

Stark County Health Department
Administration & Support Services Division



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Committee & Report Information

Data & Research Committee Members

<i>Safe Kids Coordinator:</i> Amanda Kelly Stark County Health Department	<i>Committee Chair:</i> Lisa Tavallali Aultman Hospital
<i>Members:</i> Mike Abrams Stark County Bicycle Club	Tammy Jacobson Aultman Hospital
Beth Canfield-Simbro Mount Union College	Danette Lund Early Childhood Resource Center
Kay Conley Stark County Health Department	Karen Schanz Stark County Health Department
Steve Gronow Stark County Engineer's Office	Carolyn Schooley Mercy Medical Center
Joyce Himebaugh Doctors Hospital of Stark County	Laurie Weaver North Lawrence Fire Department

The Safe Kids Data and Research Committee includes: child safety advocates, health educators, trauma coordinators, and data analysts. The Stark County Health Department is the lead agency for Safe Kids Stark County. This department has an injury prevention grant and child and family health services grant, which enables them to conduct child safety and injury prevention programs. Safe Kids Worldwide and Safe Kids USA are the parent organizations.

Report Information

This report includes e-code (etiology) data collected from **Affinity Medical Center (Doctors Campus and Massillon Campus), Alliance Community Hospital, Aultman Hospital, and Mercy Medical Center** from January 1, 2005 through December 31, 2005. "E-codes permit the classification of environmental events, circumstances and conditions as the cause of the injury, poisoning, and other adverse effects. The use of E-codes together with the code identifying the injury or condition, provides additional information of a particular concern to industrial medicine, insurance carriers, national safety programs and public health agencies. External causes of injury and poisonings codes (E-codes) are intended to provide data for injury research and evaluation for injury prevention strategies. E-codes capture how the injury or poisoning happened (cause), the intent (unintentional or accidental or intentional, such as suicide or assault), and the place where the event occurred. * E-codes are never to be reported as a principal diagnosis." The hospitals were asked to provide their e-code data for children ages 14 and under during the time frame. Date of treatment, patient's age, sex, zip code and the e-code were reported for combined analysis.

If you have questions regarding the data collection or analysis process, if you would like to learn more about the Safe Kids Coalition or have comments or suggestions, please contact Safe Kids Stark County at 330-493-9904 x 282. Additional copies of this report are available at www.starkhealth.org/safekids.

Value to the Community

In 2002, the Stark County Health Department began researching a method to collect county wide data regarding childhood injuries. For the 2002 pilot report, three out of the five local hospitals agreed to provide the department with their injury data (E-codes) for analysis. Data collection for all five hospitals began by the health department for the 2003-2005 reports.

In 2004, a data & research committee was formed, as a part of Safe Kids Stark County, to analyze this data.

In 2005, the Stark County Health Department was awarded an Injury Prevention Grant from the Ohio Department of Health to help with this initiative.

Once the data was analyzed, the committee published an annual report of the findings. The committee has published reports for 2002-2004 and is currently working on collecting the 2006 data.

The reports are being distributed to community leaders and agencies for heightened awareness. Recommendations are being made to Safe Kids Stark County board regarding the need for additional injury prevention programming. The data will be used to develop these new programs.

For this report, injury data was collected from January 1, 2005 through December 31, 2005. During that time, 8,144 children ages 14 and under (which is the age group that is focused on by Safe Kids) were treated in the five Stark County Emergency Rooms for unintentional injuries.

Prior to this committee and their work, there was no accurate way of collecting all of the hospital information for a county-wide analysis.

Childhood Injuries

According to Safe Kids Worldwide and Safe Kids USA accidental injury kills one million children annually worldwide. Ninety-eight percent of these deaths occur in low-income countries, where injury is making significant gains on disease as the leading cause of death in young children. In the United States and most other industrialized nations, accidental injury has surpassed disease to become the number one cause of death among children ages 14 and under.

The accidental injury death rate among children ages 14 and under declined 45 percent from 1987 to 2002.

In addition, each year more than 92,000 children are permanently disabled. Each year, one out of every four children (a total of more than 14 million children ages 14 and under) sustains an injury serious enough to require medical attention.

According to the Ohio Department of Public Safety, in Ohio, over 2,300 children ages 0-14 were killed during the past ten years by unintentional injuries. Although these statistics are grim, most injuries are predictable and preventable. In fact, it is estimated that 9 out of 10 injuries can be prevented.

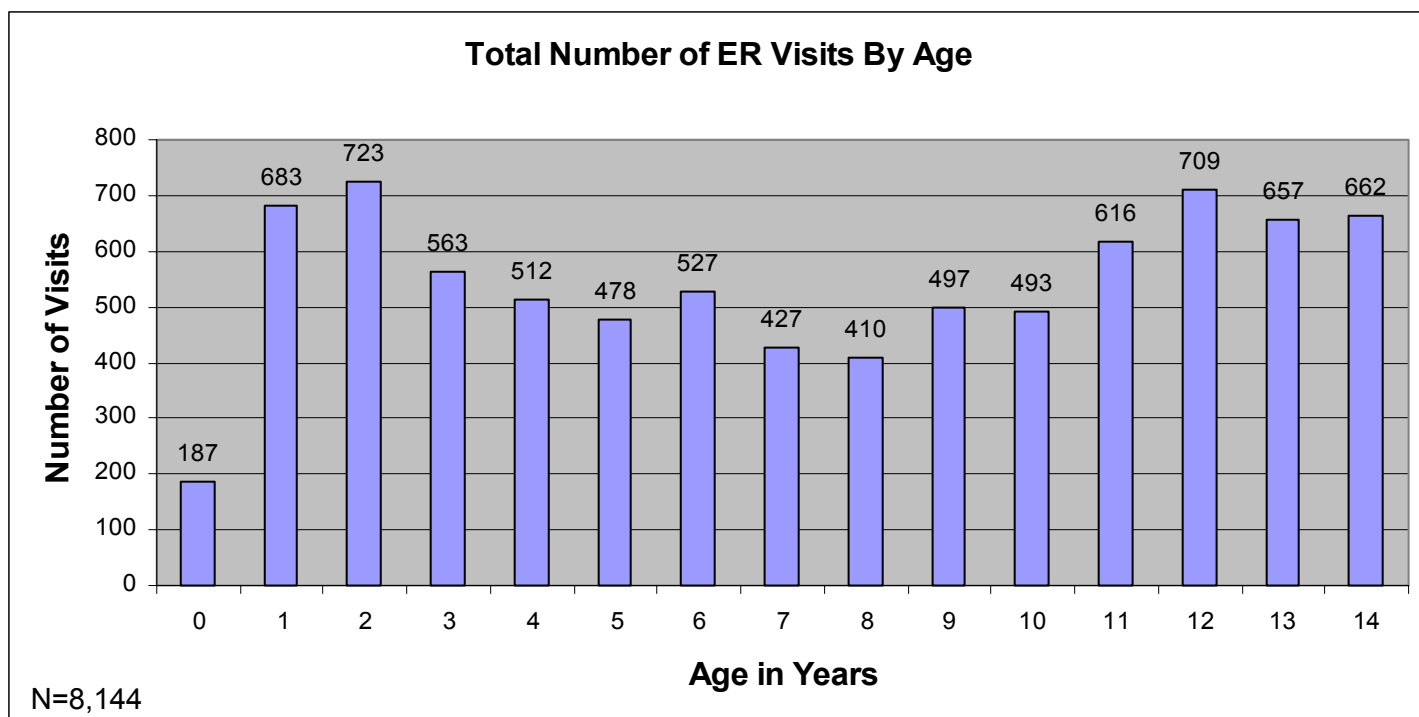
Demographic Analysis

- More male patients were treated for injuries than female patients.
- September was the most prevalent month for emergency room visits, followed by August and May, respectively.
- Two year old children were most often seen in the emergency rooms, followed by twelve year olds and one year olds, respectively. ****Based on actual number of injuries—see page 6, column 2****
- Two year old children have the highest injury rate, followed by one year olds and twelve year olds, respectively. ****Based on population—see page 6, column 5****
- The 44601 zip code (Alliance City, Lexington Twp, Marlboro Twp, Washington Twp) had the highest number of children treated for injuries (1,466). ****Based on actual number of visits—see page 8****
- The 44670 zip code (Minerva, Paris Twp, Robertsville) had the highest rate of injury for children (275.9 per 1,000). ****Based on population—see page 8****

Overall Demographic Information

TOTAL NUMBER OF CHILDREN TREATED

8,144



Overall Demographic Information

Age	# of Injuries	% of Total Injuries	Population	Rate of Injury by Population
0	187	2.3%	4,769	3,921.2 per 100,000
1	683	8.4%	4,731	14,436.7 per 100,000
2	723	8.9%	4,826	14,981.4 per 100,000
3	563	6.9%	4,732	11,897.7 per 100,000
4	512	6.3%	5,109	10,021.5 per 100,000
5	478	5.9%	5,015	9,531.4 per 100,000
6	527	6.5%	5,048	10,439.8 per 100,000
7	427	5.2%	5,303	8,052.0 per 100,000
8	410	5.0%	5,406	7,584.2 per 100,000
9	497	6.1%	5,615	8,851.3 per 100,000
10	493	6.1%	5,629	8,758.2 per 100,000
11	616	7.6%	5,433	11,338.1 per 100,000
12	709	8.7%	5,326	13,312.1 per 100,000
13	657	8.1%	5,291	12,417.3 per 100,000
14	662	8.1%	5,517	11,999.3 per 100,000

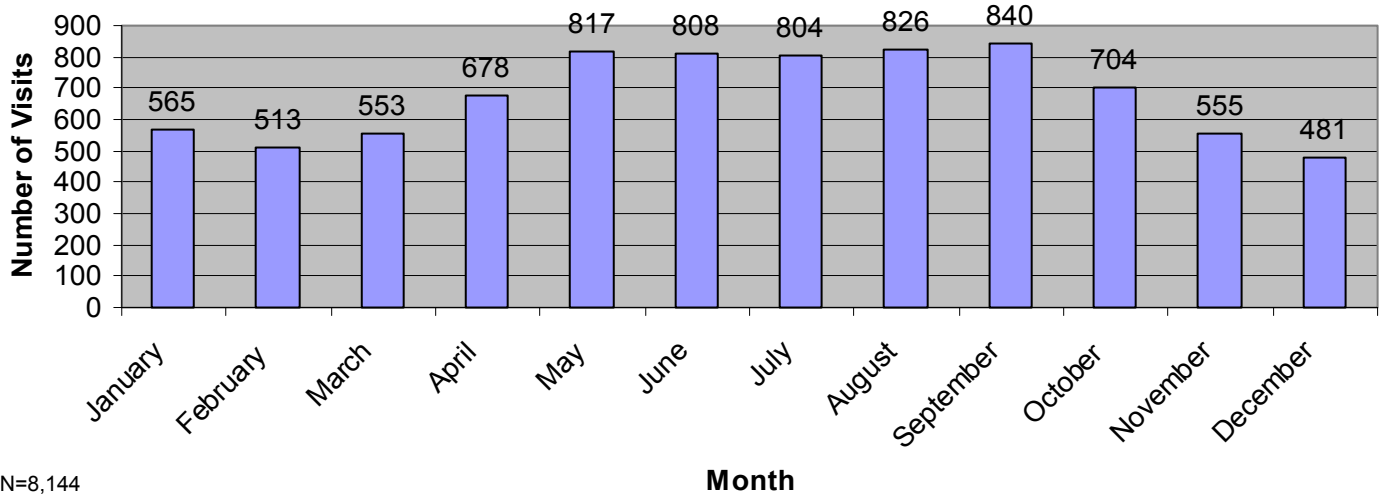
Two year old children suffered the most injuries (723), accounting for 8.9% of all ER visits. Two year old children also had the highest rate of injury, at 14,981.4 per 100,000.

Overall Demographic Information

TOTAL NUMBER OF CHILDREN TREATED

8,913

Total Number of ER Visits By Month



Number of Visits Per Month

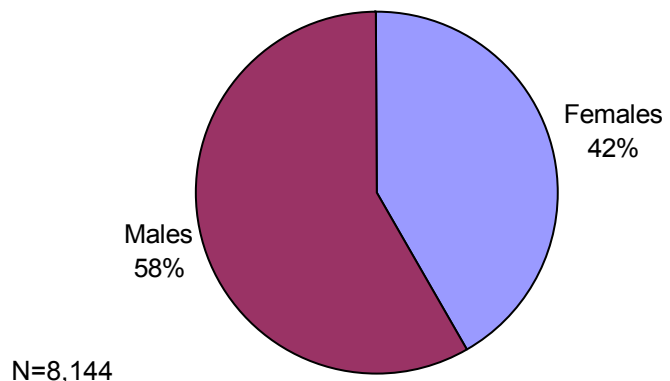
Month	#	%
January	565	6.9%
February	513	6.3%
March	553	6.8%
April	678	8.3%
May	817	10.0%
June	808	9.9%

Month	#	%
July	804	9.9%
August	826	10.1%
September	840	10.3%
October	704	8.6%
November	555	6.8%
December	481	5.9%

Number of Visits By Gender

Gender	#	%
Males	4,746	58.3%
Females	3,398	41.7%

Total Number of ER Visits by Gender



Zip Code Information

Zip Code	Population (Ages 0-14)	# of Injuries	Injury Rate per 100,000 people
44601	7,461	1,466	196.5
44608	534	38	71.2
44613	508	53	104.3
44614	2,611	141	54.0
44626	595	70	117.6
44630	NA	2	NA
44632	2,161	49	22.7
44641	4,157	353	84.9
44643	663	57	86.0
44646	9,438	1,073	113.7
44647	3,342	412	123.3
44648	NA	5	NA
44650	NA	1	NA
44652	NA	1	NA
44657	2,122	241	113.6
44662	1,845	179	97.0
44666	635	66	103.9
44669	313	38	121.4
44670	29	8	275.9

Zip Code	Population (Ages 0-14)	# of Injuries	Injury Rate per 100,000 people
44685	5,330	57	10.7
44688	780	71	91.0
44689	215	8	37.2
44701	NA	7	NA
44702	108	11	101.9
44703	2,571	311	121.0
44704	1,310	148	113.0
44705	5,241	636	121.4
44706	3,997	538	134.6
44707	2,670	398	149.1
44708	4,647	441	94.9
44709	3,165	253	79.9
44710	1,973	273	138.4
44714	1,643	164	99.8
44718	2,283	85	37.2
44720	8,472	235	31.5
44721	2,595	142	54.7
44730	1,210	113	93.4
44735	NA	0	NA

TOTAL	8,144	83,624	97.4
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**NA: These zip codes represent PO Box mailing addresses. No population data is available for these zip codes.

Zip Code Information
Leading Zip Codes for Injuries

By Injury Rate

44670	Minerva, Paris Twp, Robertsville
44601	Alliance City, Lexington Twp, Marlboro Twp, Washington Twp
44707	Canton City, Canton Twp, North Industry, Waco
44710	Canton City, Canton Twp, Perry Twp
44706	Canton City, Canton Twp, East Sparta, Perry Twp
44647	Lawrence Twp, Massillon City, Tuscarawas Twp
44669	Sugarcreek Twp, Wilmot
44705	Canton City, Plain Twp
44703	Canton City
44626	East Sparta, Pike Twp.

By Total Number of Injuries

44601	Alliance City, Lexington Twp, Marlboro Twp, Washington Twp
44646	Jackson Twp, Lawrence Twp, Massillon City, Perry Twp, Tuscarawas Twp
44705	Canton City, Plain Twp
44706	Canton City, Canton Twp, East Sparta, Perry Twp
44708	Canton City, Canton Twp, Hills & Dales Village, Jackson Twp, Perry Twp, Plain Twp
44647	Lawrence Twp, Massillon City, Tuscarawas Twp
44707	Canton City, Canton Twp, North Industry, Waco
44641	Louisville City, Hartville, Nimishillen Twp, Osnaburg Twp, Plain Twp
44703	Canton City
44710	Canton City, Canton Twp, Perry Twp

Zip Code Description

For each child treated, the zip code reported is where the child lives, not necessarily where the injury occurred.

For the purposes of this report, the following areas are identified to each zip code:

44601	Alliance City, Lexington Twp, Marlboro Twp, Washington Twp
44608	Beach City, Brewster, Sugarcreek Twp, Wilmot
44613	Brewster, Sugarcreek Twp, Wilmot
44614	Canal Fulton, Jackson Twp, Lawrence Twp
44626	East Sparta, Pike Twp.
44630	PO Boxes, Greentown, Lake Twp
44632	Hartville, Lake Twp
44641	Louisville City, Hartville, Nimishillen Twp, Osnaburg Twp, Plain Twp
44643	East Sparta, Magnolia, Sandy Twp
44646	Jackson Twp, Lawrence Twp, Massillon City, Perry Twp, Tuscarawas Twp
44647	Lawrence Twp, Massillon City, Tuscarawas Twp
44648	PO Boxes, Massillon City, Perry Twp
44650	PO Boxes, Maximo, Washington Twp
44652	PO Boxes, Middlebranch, Plain Twp
44657	Minerva, Paris Twp
44662	Bethlehem Twp, Brewster, Navarre, Perry Twp, Sugarcreek Twp, Tuscarawas Twp, Wilmot
44666	Lawrence Twp, North Lawrence, Tuscarawas Twp
44669	Minerva, Paris, Washington Twp
44670	Minerva, Paris Twp, Robertsville
44685	Lake Twp, Uniontown
44688	Sandy Twp, Waynesburg
44689	Sugarcreek Twp, Wilmot
44701	PO Boxes, Canton City
44702	Canton City
44703	Canton City
44704	Canton City, Canton Twp
44705	Canton City, Plain Twp
44706	Canton City, Canton Twp, East Sparta, Perry Twp
44707	Canton City, Canton Twp, North Industry, Waco
44708	Canton City, Canton Twp, Hills & Dales Village, Jackson Twp, Perry Twp, Plain Twp
44709	Canton City, North Canton, Plain Twp
44710	Canton City, Canton Twp, Perry Twp
44714	Canton City, Plain Twp
44718	Canton City, Jackson Twp, Plain Twp
44720	Greentown, Hartville, Jackson Twp, Lake Twp, North Canton, Plain Twp
44721	Hartville, North Canton, Plain Twp
44730	Canton Twp, East Canton, Osnaburg Twp
44735	PO Boxes, Canton City

E-Code Headings

There are over 1,200 potential e-codes used in hospital emergency rooms. For the purposes of this report, the committee assigned each e-code to a particular heading. E-codes with no statistical significance were not included in these headings. Some e-codes will have multiple subheadings. They will be described in the following pages.

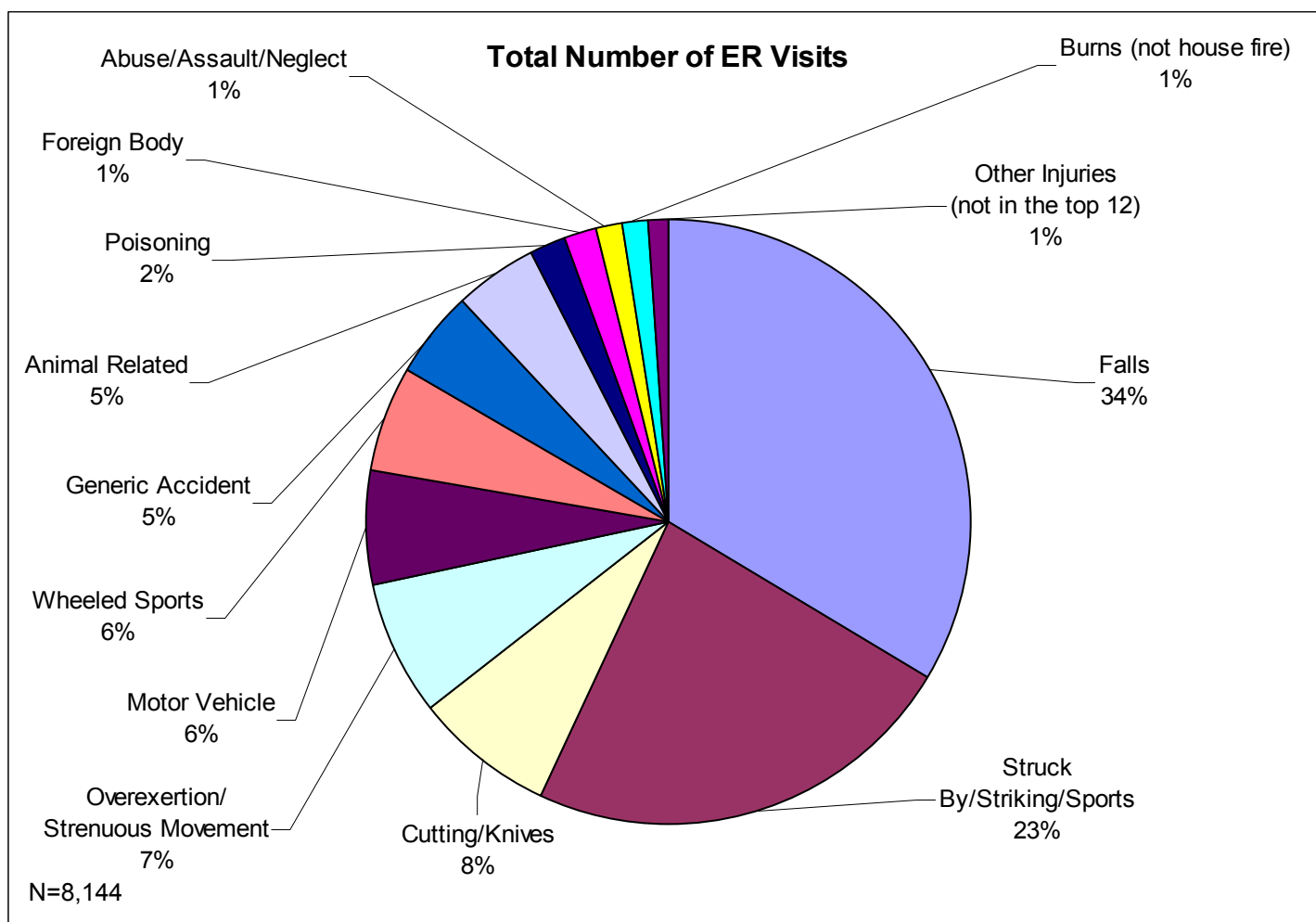
A	Motor Vehicle	L	Choking/Suffocation
B	Wheeled Sports	M	Foreign Body (Not Choking)
C	Water Related	N	Struck By/Striking Object/Sports
D	Generic Accident	O	Machinery
E	Poisoning	P	Cutting/Knives
F	Medical Procedures	Q	Fire Arms
G	Falls	R	Suicide
H	Fire Related	S	Burns (Not Fire Related)
I	Weather	T	Human Bites
J	Abuse, Assault, Neglect	U	Overexertion & Strenuous Movement
K	Animal Related		

Top 12 Leading Causes of Injury

There were 8,144 children treated between January 1, 2005 and December 31, 2005.

The leading causes of injury, as differentiated by heading include:

Injury Type	#	%
Falls	2,739	33.6%
Struck By/Striking Object/Sports	1,907	23.4%
Cutting/Knives	612	7.5%
Overexertion	571	7.0%
Motor Vehicle	498	6.1%
Wheeled Sports	450	5.5%
Generic Accident	388	4.8%
Animal Related	375	4.6%
Poisoning	162	2.0%
Foreign Body (not choking)	120	1.5%
Abuse, Assault, Neglect	117	1.4%
Burns (not house fire)	114	1.4%
All other Causes of Injury (not in the top 12)	91	1.1%



Falls

Falls were the leading cause of injury for children. There were 2,739 children treated for a fall related injury, accounting for 33.6% of the injuries during this report time frame.

Number of Falls By Gender

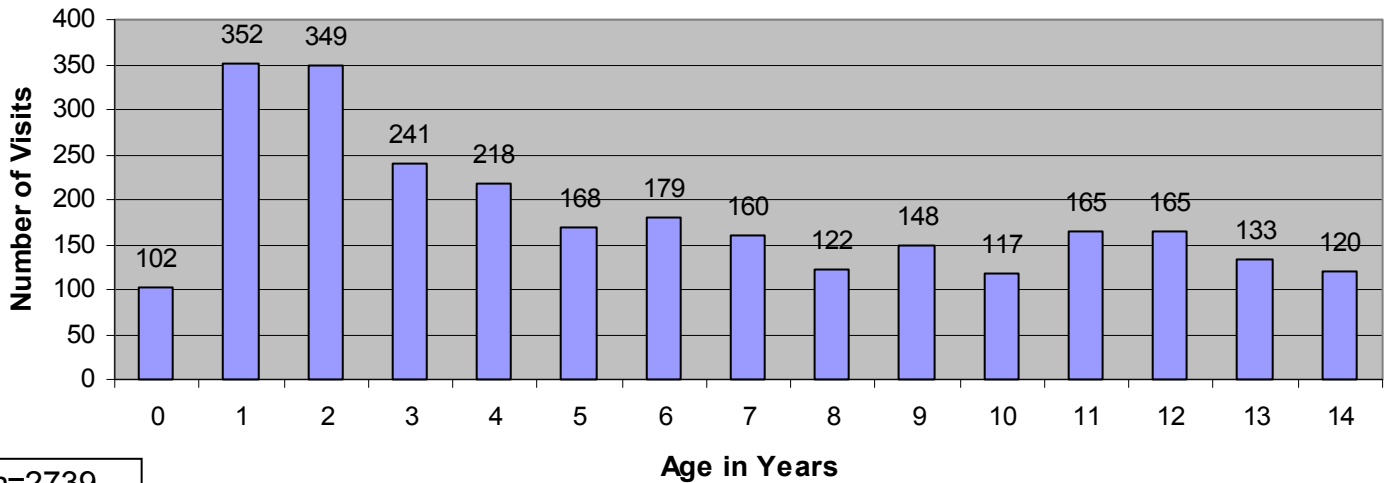
Gender	#	%
Males	1,556	56.8%
Females	1,183	43.2%

Leading Zip Codes

Zip Code	#	%
44601	462	16.9%
44646	350	12.8%
44705	201	7.3%
44706	173	6.3%
44707	152	5.5%

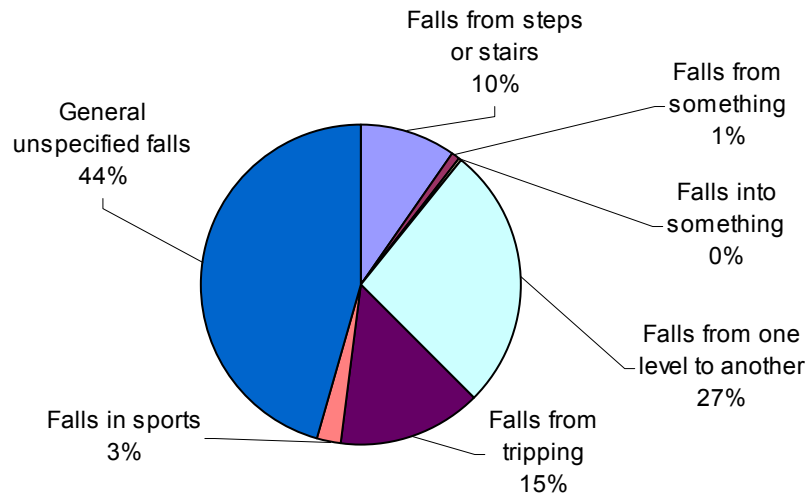
September (283) is the most prevalent month for these injuries, followed by May (271) and August (260).

Total Number of Fall Visits By Age



n=2739

Type of Fall Injuries



n=2739

Struck By/Striking Object/Sports

There were 1,907 children treated for an injury caused by being struck by or striking an object. This was the second leading cause of injury, accounting for 23.4% of the injuries during this report time frame.

Number of Struck By/Striking Objects by Gender

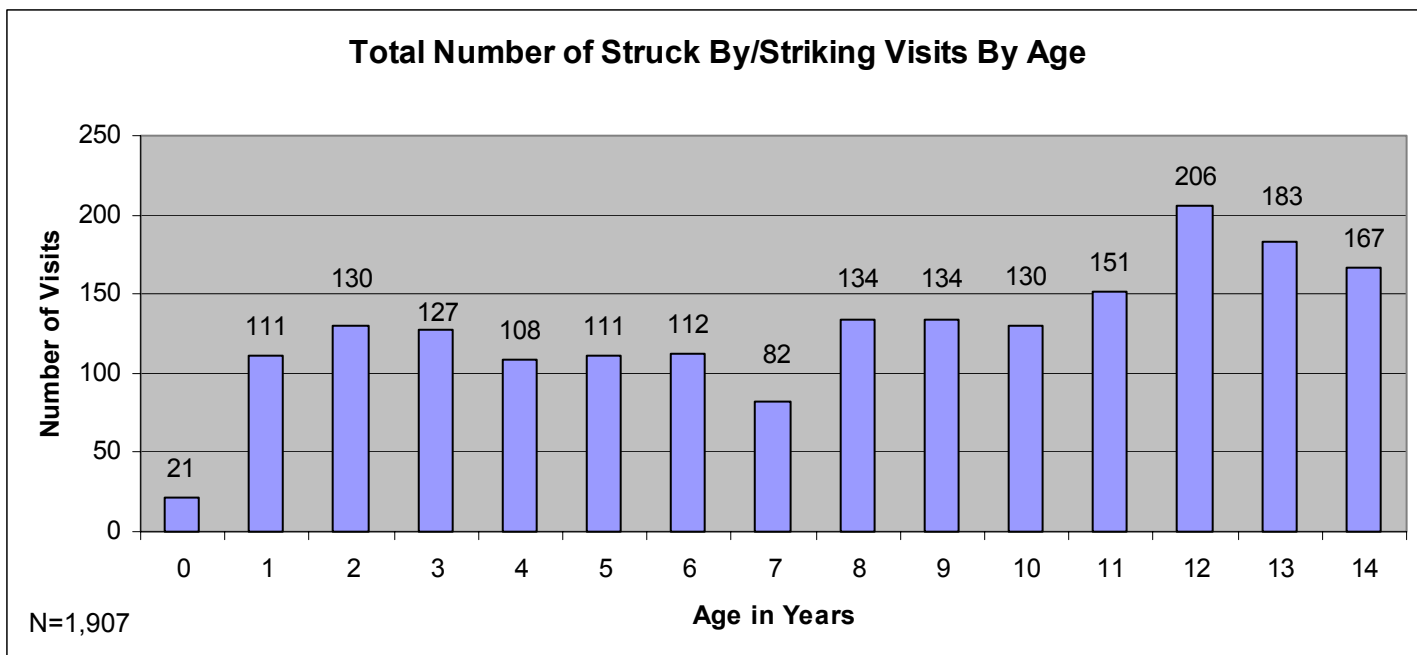
Gender	#	%
Males	1,222	64.1%
Females	385	35.9%

Leading Zip Codes

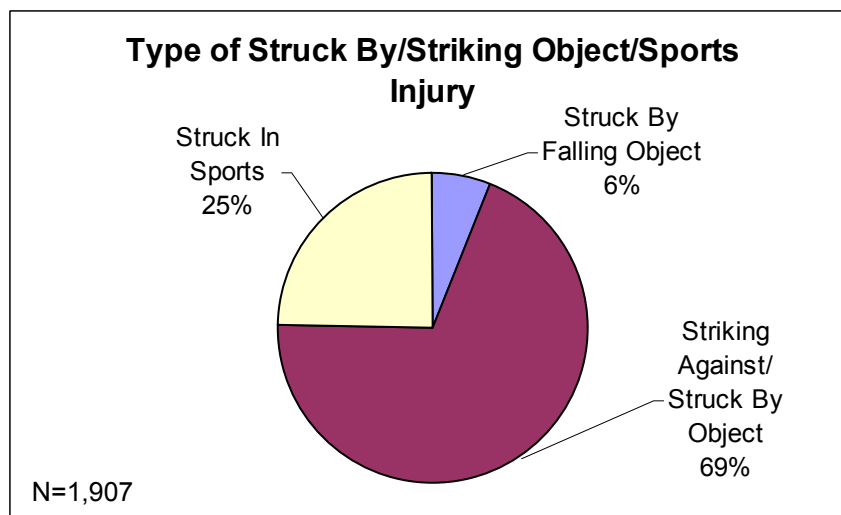
Zip	#	%
44601	286	15.0%
44646	282	14.8%
44705	140	7.3%
44706	135	7.1%
44647	117	6.1%

September (220) is the most prevalent month for these injuries, followed by May (195) and October (190).

Total Number of Struck By/Striking Visits By Age



Type of Struck By/Striking Object/Sports Injury



Cutting/Knives

There were 612 children treated for an injury caused by cutting instruments. This was the third leading cause of injury, accounting for 7.5% of the injuries during this report time frame.

Number of Visits By Gender

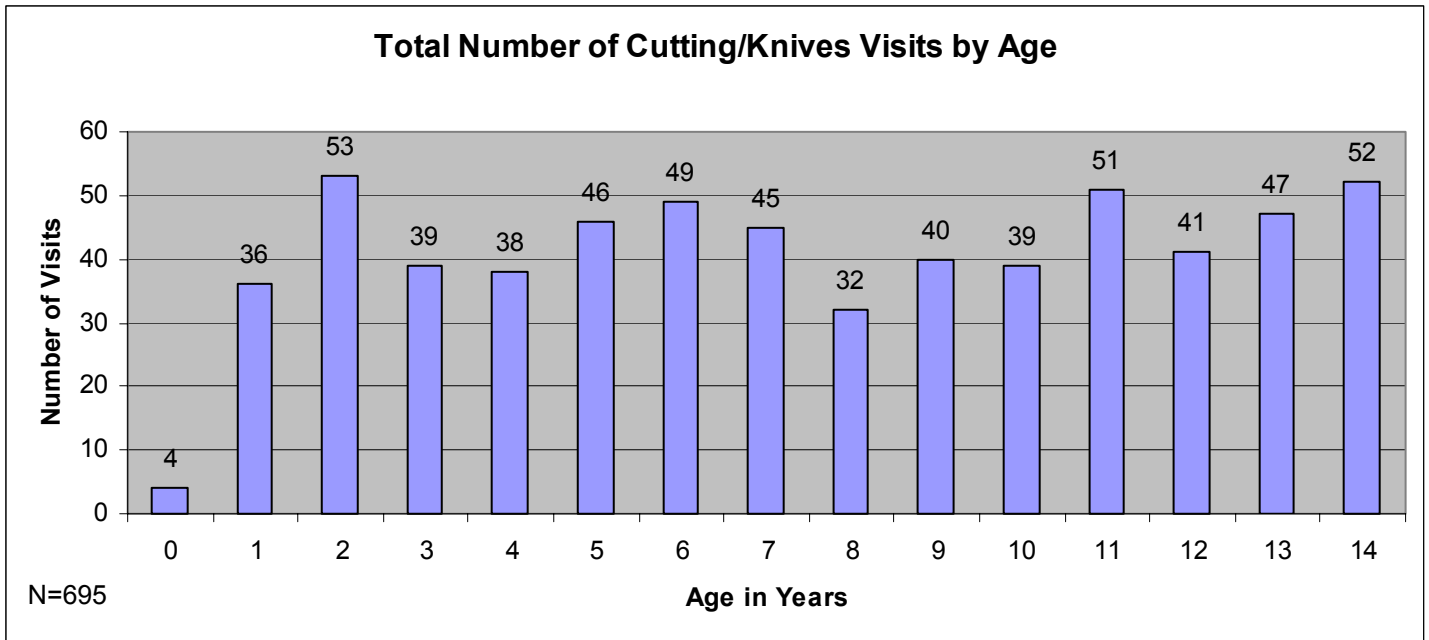
Gender	#	%
Males	373	60.9%
Females	239	39.1%

Leading Zip Codes

Zip	#	%
44601	141	23.0%
44646	63	10.3%
44705	60	9.8%
44706	37	6.0%
44707	32	5.2%

August (81) is the most prevalent month for these injuries, followed by July (79) and October (60).

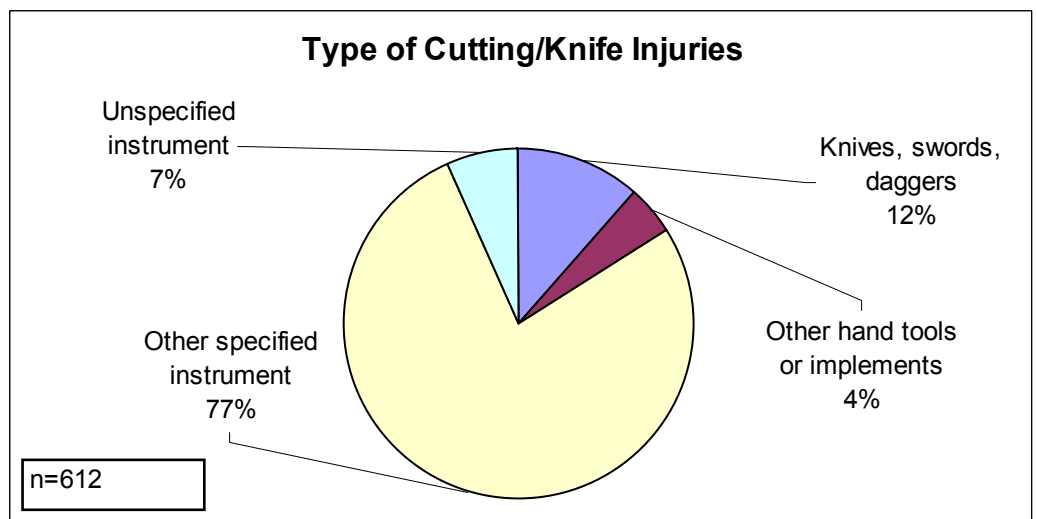
Total Number of Cutting/Knives Visits by Age



Other specified instrument includes something that is too specific and there is no actual code for it (such as cutting your foot on a curtain rod).

Unspecified instrument includes a cut with no known implement (such as a child was running through the yard and cut their foot).

Type of Cutting/Knife Injuries



Overexertion/Strenuous Movements

There were 571 children treated for an Overexertion/Strenuous Movement related injury. This was the fourth leading cause of injury, accounting for 6.9% of the injuries during this report time frame.

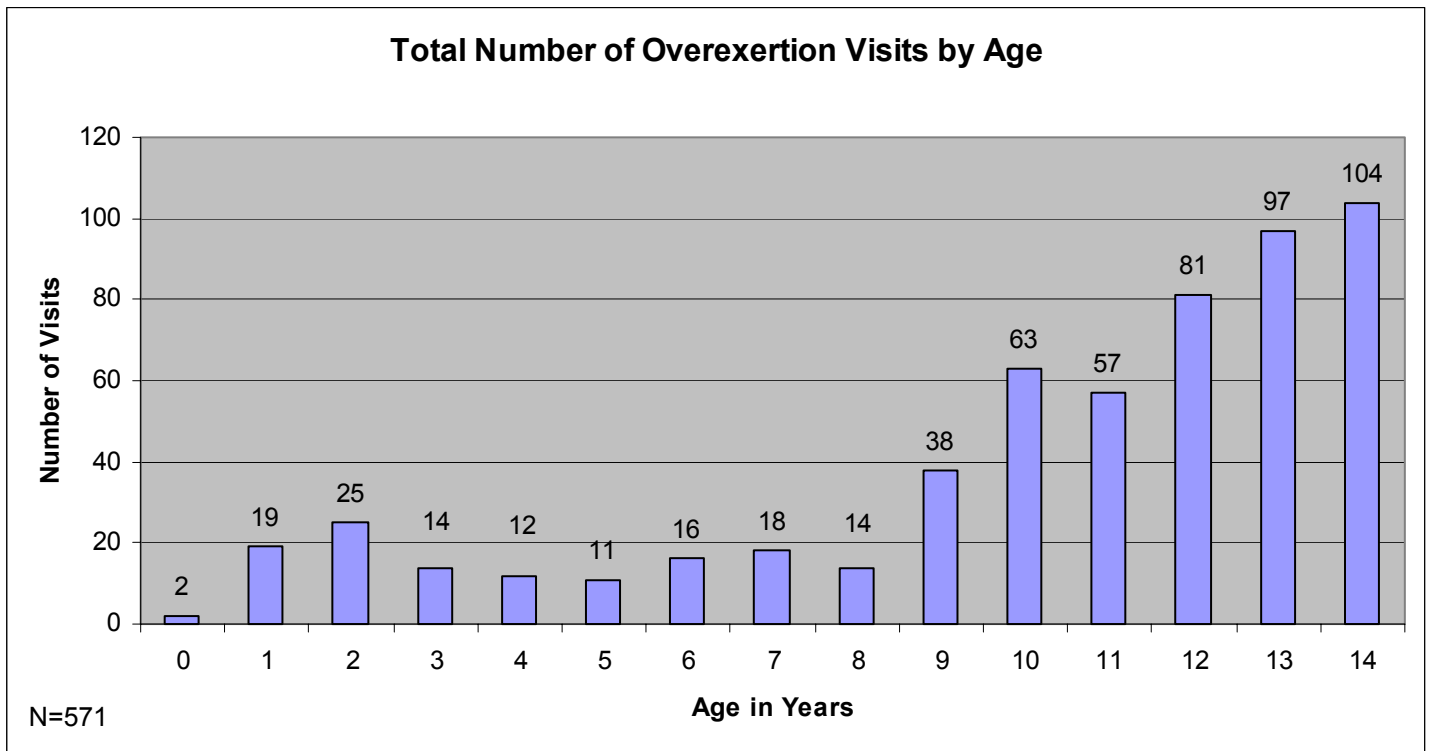
Number of Visits By Gender

Gender	#	%
Males	257	45.0%
Females	314	55.0%

Leading Zip Codes:

Zip	#	%
44601	132	23.1%
44646	67	11.7%
44705	43	7.5%
44706	39	6.8%
44707	31	5.4%
44708	31	5.4%

April (66) was the most prevalent month for these injuries, followed by May (61) and September (59).



An **Overexertion/Strenuous Movement Injury** includes a type of injury or strenuous movement, where the body is stressed beyond normal capabilities causing injury.

Motor Vehicle

There were 498 children treated for motor vehicle related injuries. This was the fifth leading cause of injury, accounting for 6.1% of the injuries during this report time frame.

Number of Visits by Gender

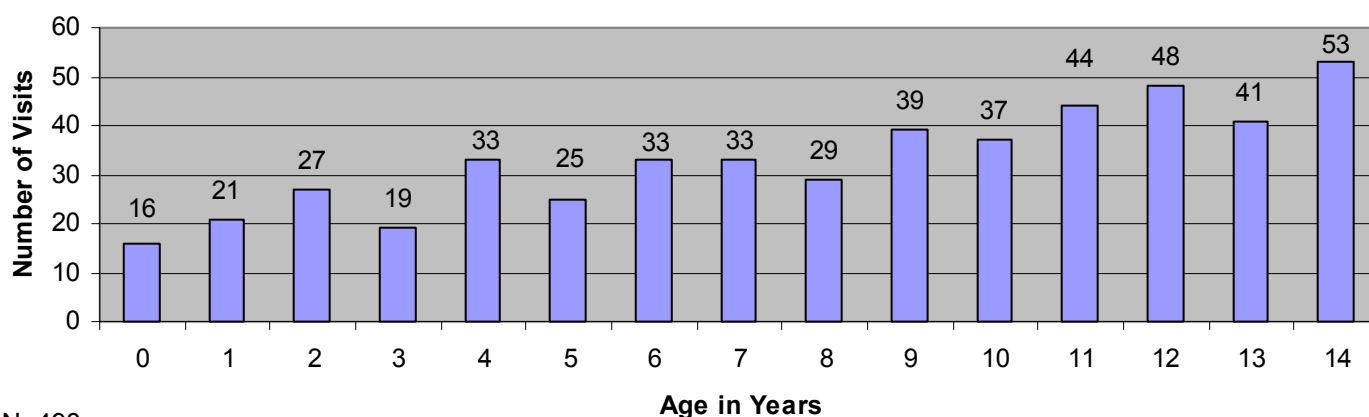
Gender	#	%
Males	278	55.8%
Females	220	44.2%

Leading Zip Codes

Zip	#	%
44706	49	9.8%
44646	48	9.6%
44705	47	9.4%
44601	42	8.4%
44708	31	6.2%

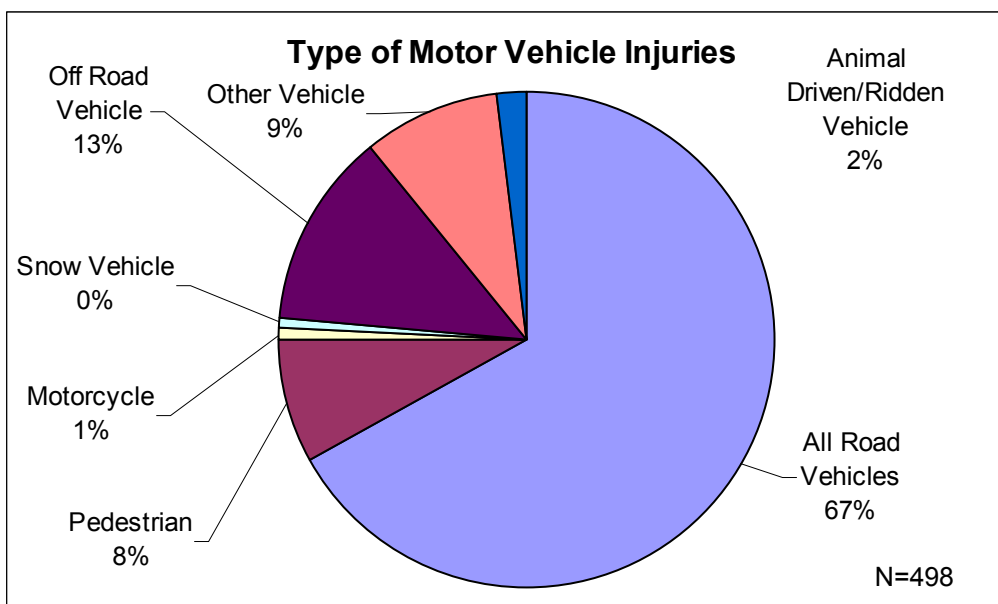
July (74) is the most prevalent month for these injuries, followed by June (58) and August (47).

Total Number of Motor Vehicle Visits By Age



N=498

Type of Motor Vehicle Injuries



N=498

Wheeled Sports

There were 450 children treated for wheeled sports related injuries (such as bicycle, scooters, skateboards and rollerblades). This was the sixth leading cause of injury, accounting for 5.5% of the injuries during this report time frame.

Number of Visits by Gender

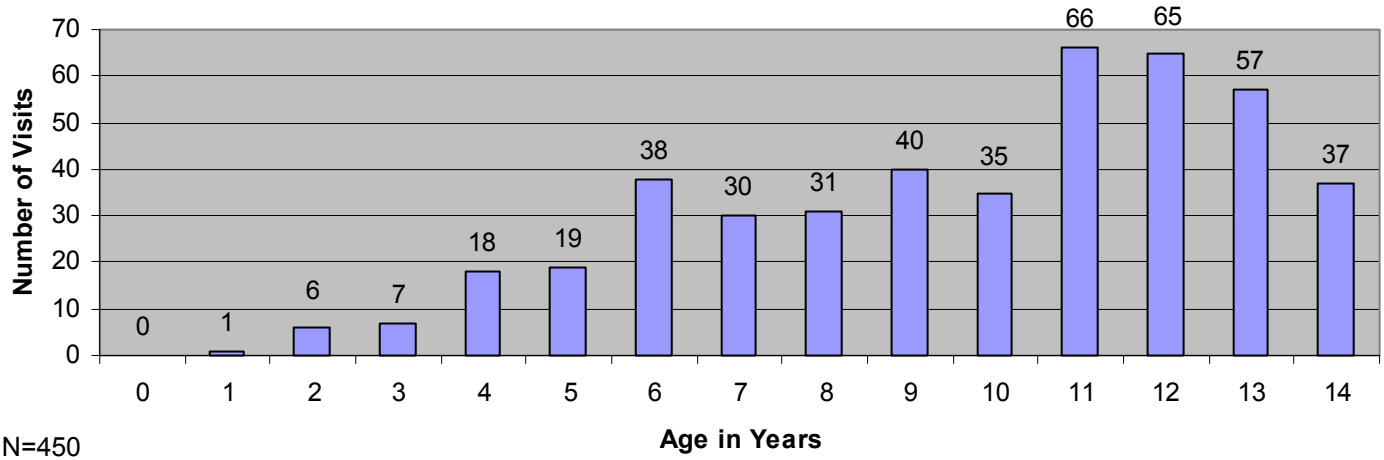
Gender	#	%
Males	293	65.1%
Females	157	34.9%

Leading Zip Codes

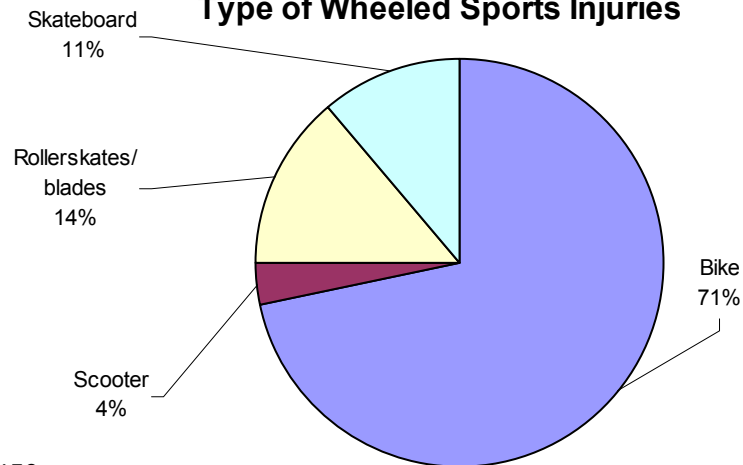
Zip	#	%
44601	72	16.0%
44646	61	13.6%
44705	41	9.1%
44706	31	6.9%
44641	29	6.4%

August (74) was the most prevalent month for these injuries, followed by June (70) and July (70).

Total Number of Wheeled Sports Visits By Age



Type of Wheeled Sports Injuries



Generic Accident

There were 388 children treated for generic accident. This was the seventh leading cause of injury, accounting for 4.8% of the injuries during this report time frame.

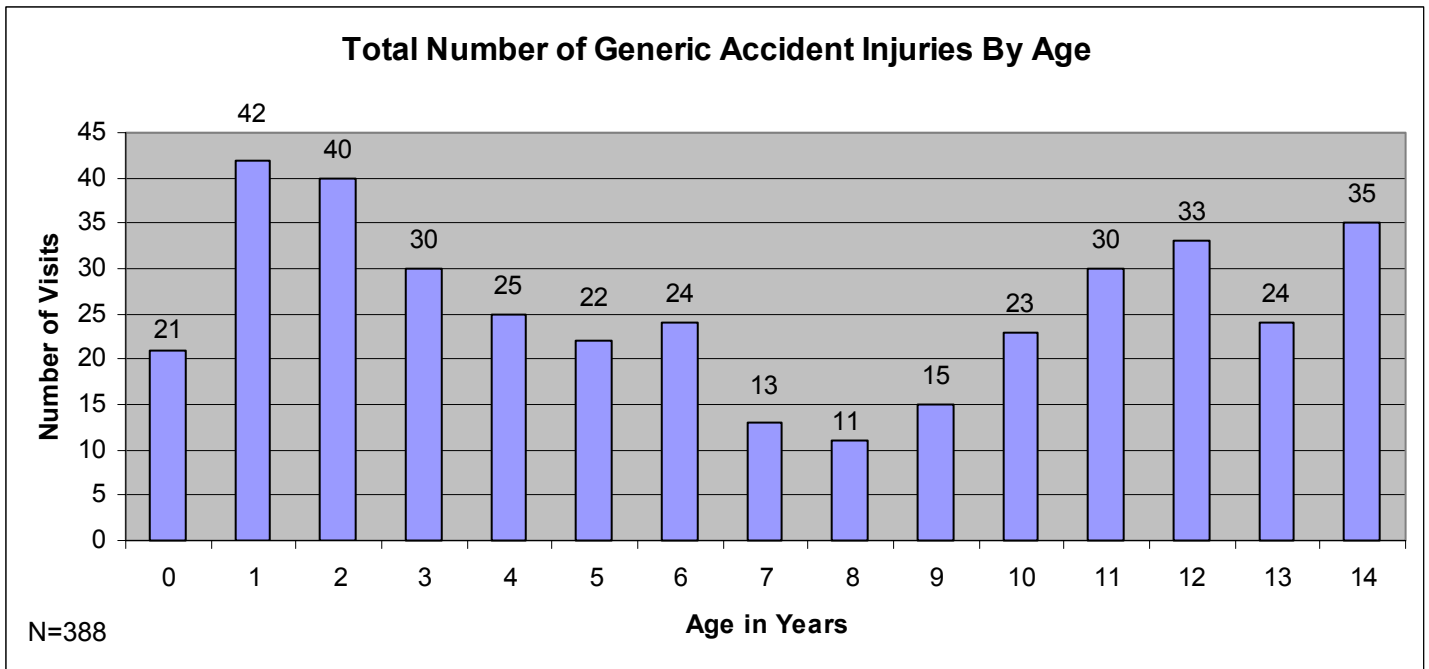
Number of Visits By Gender

Gender	#	%
Males	208	53.6%
Females	180	46.4%

Leading Zip Codes

Zip	#	%
44601	117	30.2%
44646	49	12.6%
44705	26	6.7%
44706	20	5.2%
44707	20	5.2%

June (48) is the most prevalent month for these injuries, followed by May (46) and October (43).



A **Generic Accident** Includes anything not otherwise specified in the reporting process.

**Committee Note: we have asked the hospitals to become more detailed in their reports to reduce the number of generic and unspecified types of injuries for future reports.

Animal Related

There were 375 children treated for animal related injuries. This was the eighth leading cause of injury, accounting for 4.6% of the injuries during this report time frame.

Number of Visits by Gender

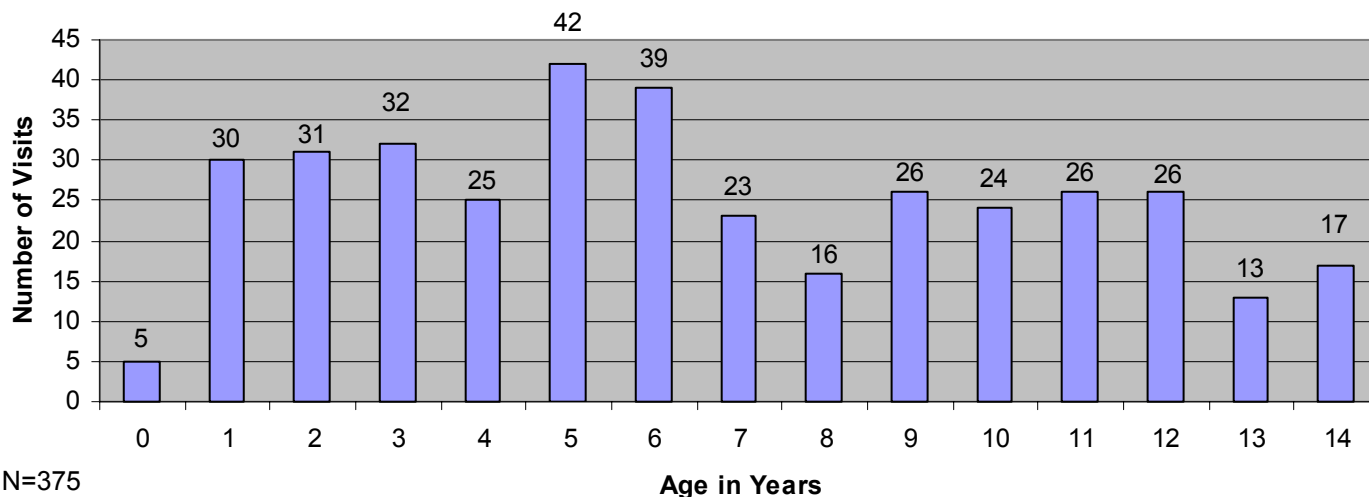
Gender	#	%
Males	206	54.9%
Females	169	45.1%

Leading Zip Codes

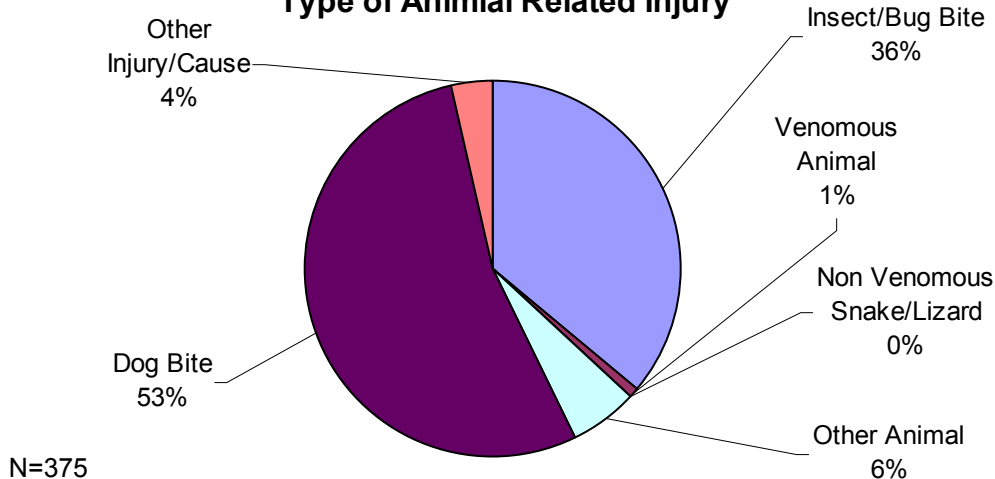
Zip	#	%
44601	90	24.0%
44646	56	14.9%
44705	29	7.7%
44647	25	6.7%
44705	24	6.4%

July (67) was the most prevalent month for these injuries, followed by August (58) and September (51).

Total Number of Animal Related ER Visits By Age



Type of Animal Related Injury



Poisoning

There were 162 children treated for poisoning injuries. This was the ninth leading cause of injury, accounting for 2.0% of the injuries during this report time frame.

Number of Visits By Gender

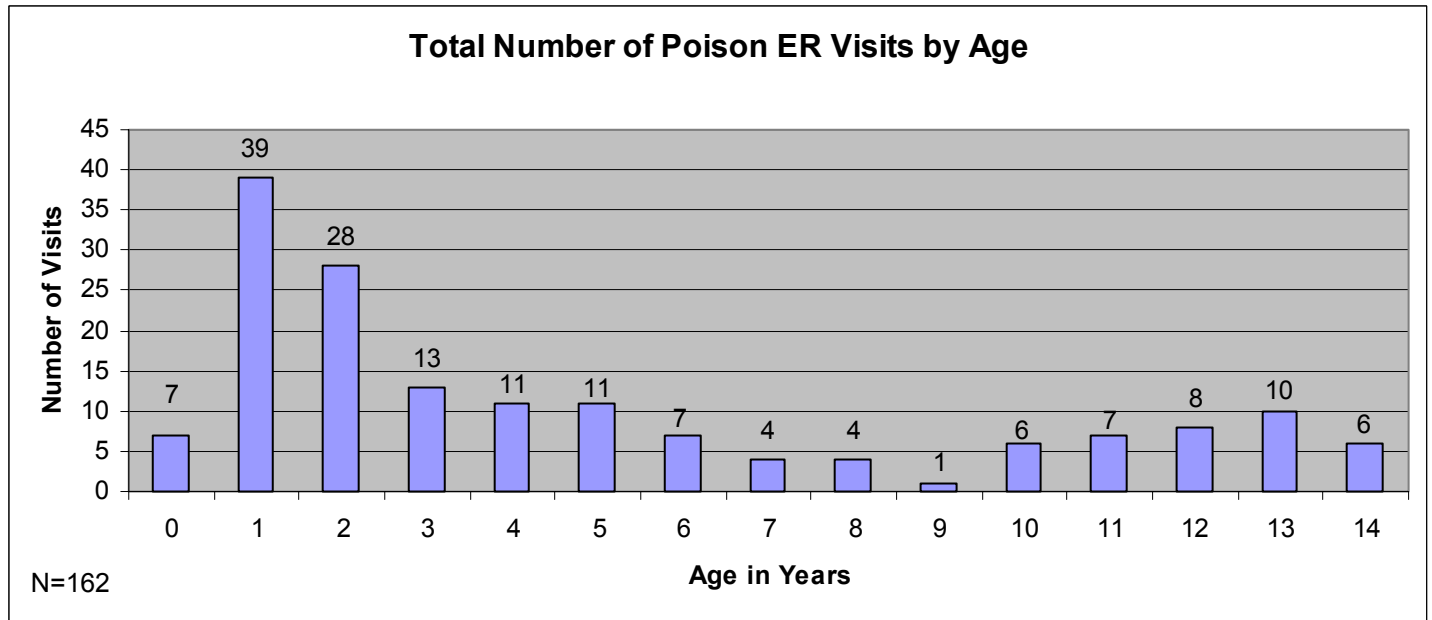
Gender	#	%
Males	85	52.5%
Females	77	47.5%

Leading Zip Codes

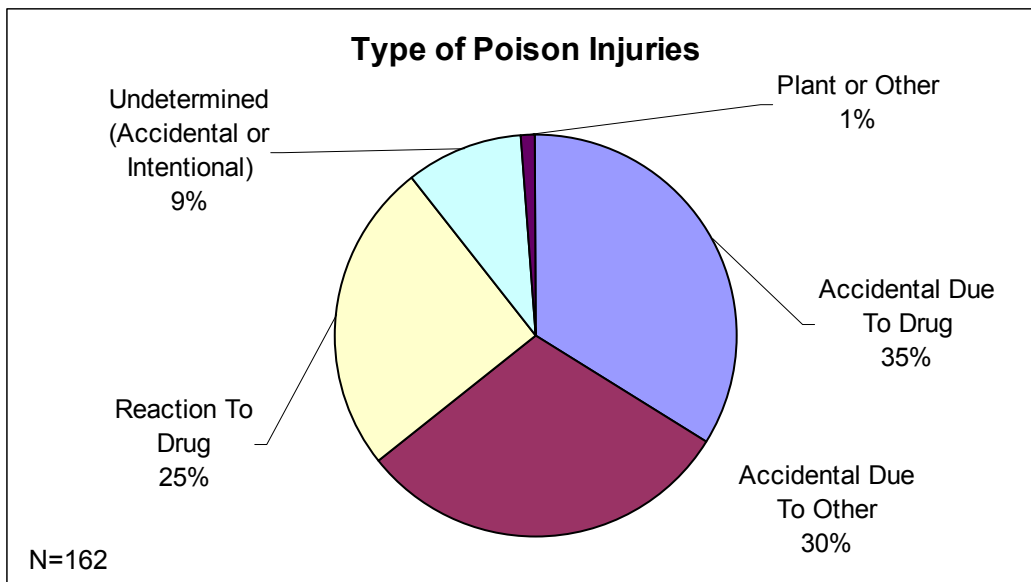
Zip	#	%
44601	32	19.8%
44646	22	13.6%
44705	19	11.7%
44647	10	6.2%
44703	8	4.9%
44709	8	4.9%

July (21) is the most prevalent month for these injuries, followed by May (18) and March (15) and December (15).

Total Number of Poison ER Visits by Age



Type of Poison Injuries



Foreign Body

There were 120 children treated for foreign body (not choking) related injuries. This was the tenth leading cause of injury, accounting for 1.5% of the injuries during this report time frame.

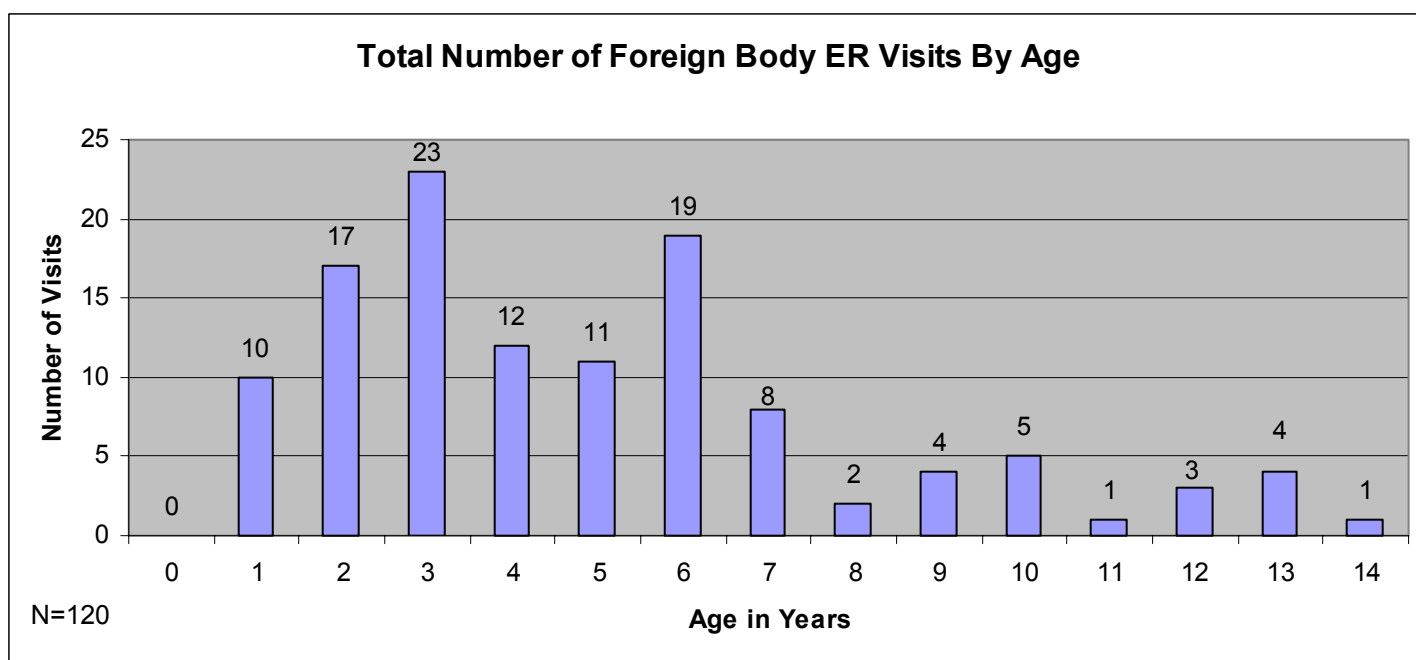
Number of Visits by Gender

Gender	#	%
Males	70	58.3%
Females	50	41.7%

Leading Zip Codes

Zip	#	%
44601	32	26.7%
44646	25	20.8%
44708	7	5.8%
44714	6	5.0%
44641	5	4.2%
44705	5	4.2%

May (21) was the most prevalent month for these injuries, followed by August (16) and September (12).



The foreign body injury includes any foreign body entering the eye or other orifice. Choking related injuries are not included here. Choking accounted for less than 1% of the injuries during the 2003 reporting year.

Abuse, Assault, Neglect

There were 117 children treated for abuse, assault neglect related injuries. This was the eleventh leading cause of injury, accounting for 1.4% of the injuries during this report time frame.

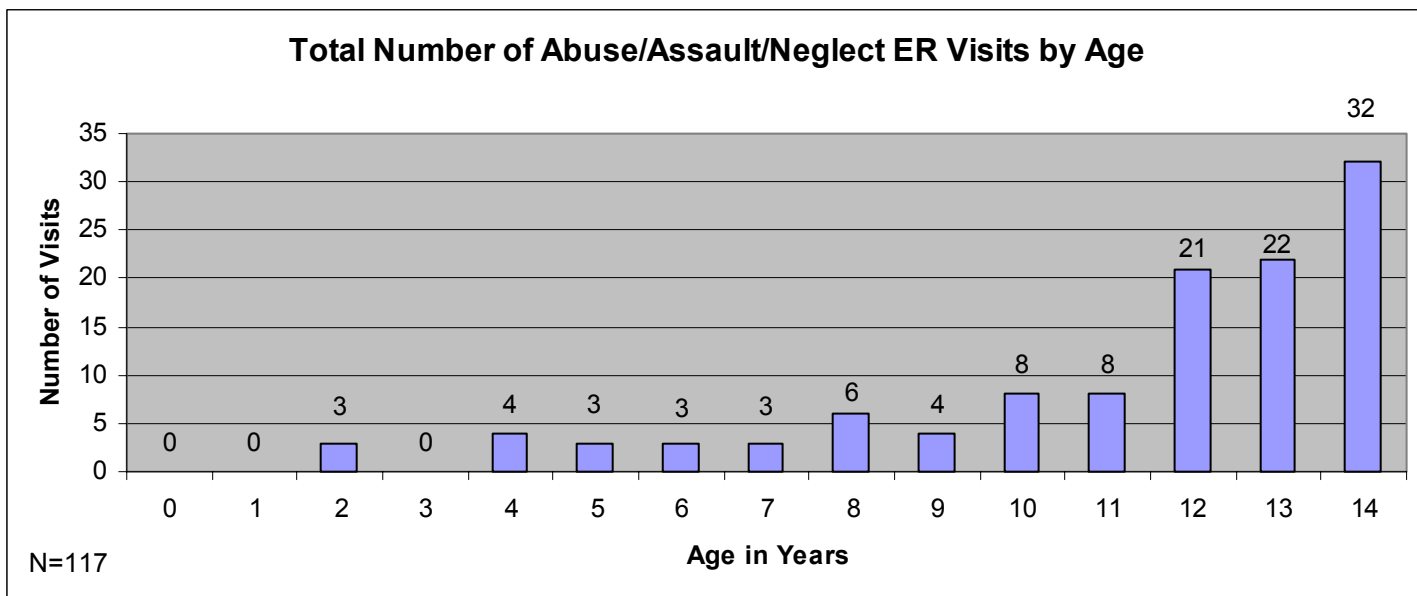
Number of Visits By Gender

Gender	#	%
Males	76	65.0%
Females	41	35.0%

Leading Zip Codes

Zip	#	%
44601	20	17.1%
44705	19	16.2%
44646	16	13.7%
44708	11	9.4%
44703	9	7.7%

February (12) is the most prevalent month for these injuries, followed by September (13) and May and July (12).



Burns (not house fire)

There were 114 children treated for burn related injuries. This was the twelfth leading cause of injury, accounting for 1.4% of the injuries during this report time frame.

Number of Visits By Gender

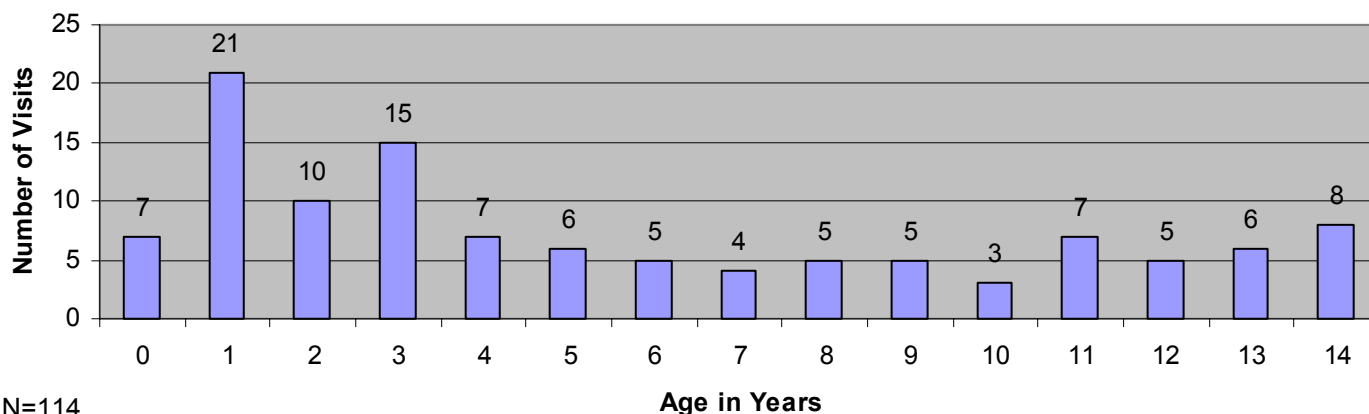
Gender	#	%
Males	66	57.9%
Females	48	42.1%

Leading Zip Codes

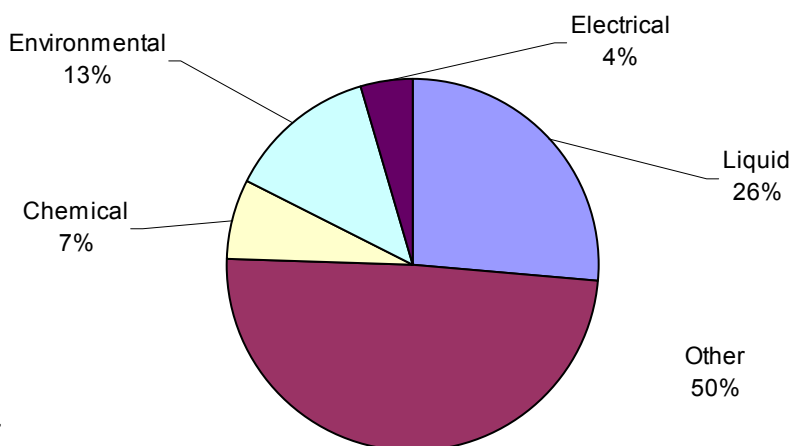
Zip	#	%
44601	22	19.3%
44646	15	13.2%
44705	11	9.7%
44706	9	7.9%
44708	8	7.0%

June (21) is the most prevalent months for these injuries, followed by March (14) and July (13).

Total Number of Burn ER Visits By Age



Type of Burn Injuries



These burn injuries were not related to a home or dwelling fire. Those injuries accounted for less than 1% of all of the injuries during the 2005 reporting year.

Leading Cause of Injuries Per Age

Age	Total Number of Patients Treated	Leading Cause of Injury Number/Percent	Second Leading Cause of Injury Number/Percent	Third Leading Cause of Injury Number/Percent
0	187	Falls 102 or 54.5%	Generic Accident & Struck By/Striking Object 21 or 11.2%	Motor Vehicle 16 or 8.6%
1	683	Falls 352 or 51.5%	Struck By/Striking Object 111 or 16.3%	Generic Accident 42 or 6.1%
2	723	Falls 349 or 48.3%	Struck By/Striking Object 130 or 18.0%	Cutting/Knives 53 or 7.3%
3	563	Falls 241 or 48.2%	Struck By/Striking Object 127 or 22.6%	Cutting/Knives 39 or 6.9%
4	512	Falls 218 or 42.6%	Struck By/Striking Object 108 or 21.1%	Cutting/Knives 38 or 7.4%
5	478	Falls 168 or 35.1%	Struck By/Striking Object 111 or 23.2%	Cutting/Knives 46 or 9.6%
6	527	Falls 179 or 34.0%	Struck By/Striking Object 112 or 21.3%	Cutting/Knives 49 or 9.3%
7	427	Falls 160 or 37.5%	Struck By/Striking Object 82 or 19.2%	Cutting/Knives 45 or 10.5%
8	410	Struck By/Striking Object 134 or 32.7%	Falls 122 or 29.8%	Wheeled Sports 32 or 7.8%
9	497	Falls 148 or 29.8%	Struck By/Striking Object 134 or 27.0%	Wheeled Sports & Cutting/Knives 40 or 8.0%
10	493	Struck By/Striking Object 130 or 26.4%	Falls 117 or 23.7%	Overexertion/Strenuous Movements 63 or 12.8%
11	616	Falls 165 or 26.0%	Struck By/Striking Object 151 or 24.5%	Wheeled Sports 66 or 10.7%
12	709	Struck By/Striking Object 206 or 29.1%	Falls 165 or 23.3%	Overexertion 81 or 11.4%
13	657	Struck By/Striking Object 183 or 27.9%	Falls 133 or 20.2%	Overexertion 97 or 14.8%
14	662	Struck By/Striking Object 167 or 25.2%	Falls 120 or 18.1%	Overexertion 104 or 15.7%

Leading Cause of Injuries Per Zip Code

Zip Code	Total Number of Patients Treated	Leading Cause of Injury Number/Percent	Second Leading Cause of Injury Number/Percent	Third Leading Cause of Injury Number/Percent
44601	1,466	Falls 462 or 31.5%	Struck By/Striking Object 286 or 19.5%	Cutting/Knives 141 or 9.6%
44608	36	Falls 13 or 34.2%	Struck By/Striking Object 9 or 23.7%	Cutting/Knives & Overexertion 4 or 10.5%
44613	53	Struck By/Striking Object 20 or 37.7%	Falls 16 or 30.2%	Wheeled Sports 6 or 11.3%
44614	141	Falls 54 or 38.3%	Struck By/Striking Object 30 or 21.3%	Cutting/Knives 16 or 11.3%
44626	70	Falls 27 or 38.6%	Struck By/Striking Object 19 or 27.1%	Cutting/Knives & Overexertion 6 or 8.6%
44630	2	Motor Vehicle & Struck By/ Striking 1 or 50.0%	N/A	N/A
44632	49	Falls 18 or 36.7%	Struck By/Striking Object 17 or 34.7%	Motor Vehicle, Cutting/Knives & Overexertion 3 or 6.1%
44641	353	Falls 124 or 35.1%	Struck By/Striking Object 76 or 21.5%	Motor Vehicle 30 or 8.5%
44643	57	Falls 22 or 38.6%	Struck By/Striking Object 11 or 19.3%	Animal Related 5 or 8.8%
44646	1,073	Falls 350 or 32.6%	Struck By/Striking Object 282 or 26.3%	Overexertion 67 or 6.2%
44647	412	Falls 140 or 34.0%	Struck By/Striking Object 117 or 28.4%	Motor Vehicle 326 or 6.3%
44648	5	Falls 3 or 60.0%	Struck By/Striking Object 2 or 40.0%	N/A
44650	1	Cutting/Knives 1 or 100.0%	N/A	N/A
44652	1	Falls 1 or 100.0%	N/A	N/A
44657	241	Falls 76 or 31.5%	Struck By/Striking Object 48 or 19.9%	Wheeled Sports 25 or 10.40%
44662	179	Falls 61 or 34.1%	Struck By/Striking Object 45 or 25.1%	Cutting/Knives 17 or 9.5%
44666	66	Falls 31 or 47.0%	Struck By/Striking Object 18 or 27.3%	Motor Vehicle 6 or 9.1%
44669	38	Falls 10 or 26.3%	Struck By/Striking Object 9 or 23.7%	Motor Vehicle 6 or 15.8%
44670	8	Struck By/Striking 3 or 37.5%	Falls 2 or 25.0%	Motor Vehicle, Wheeled Sports & Overexertion 1 or 12.5%

Leading Cause of Injuries Per Zip Code

Zip Code	Total Number of Patients Treated	Leading Cause of Injury Number/Percent	Second Leading Cause of Injury Number/Percent	Third Leading Cause of Injury Number/Percent
44685	57	Falls 25 or 35.2%	Struck By/Striking Object 14 or 24.6%	Cutting/Knives & Overexertion 4 or 7.0%
44688	71	Falls 25 or 35.2%	Wheeled Sports 9 or 12.7%	Motor Vehicle & Struck By/Striking 8 or 11.3%
44689	8	Struck By/Striking 4 or 50.0%	Cutting/Knives 2 or 25.0%	Falls, Foreign Body 1 or 12.5%
44701	7	Motor Vehicle, Falls 2 or 28.6%	Generic Accident, Struck By/Striking & Suicide 1 or 14.3%	N/A
44702	11	Falls 6 or 54.5%	Animal Related, Struck By/Striking, Cutting/ Knives, Burns & Overexertion 1 or 9.1%	N/A
44703	311	Falls 109 or 35.0%	Struck By/Striking Object 71 or 22.8%	Cutting/Knives 28 or 9.0%
44704	148	Struck By/Striking Object 43 or 29.1%	Falls 38 or 25.7%	Cutting/Knives 18 or 12.2%
44705	636	Falls 201 or 31.6%	Struck By/Striking Object 165 or 25.9%	Cutting/Knives 60 or 9.4%
44706	538	Falls 173 or 32.2%	Struck By/Striking Object 140 or 26.0%	Motor Vehicle 49 or 9.1%
44707	398	Falls 152 or 38.2%	Struck By/Striking 99 or 22.1%	Cutting/Knives 32 or 8.0%
44708	441	Falls 139 or 31.5%	Struck By/Striking Object 107 or 24.3%	Motor Vehicle & Overexertion 31 or 7.0%
44709	253	Falls 95 or 37.5%	Struck By/Striking Object 59 or 23.3%	Wheeled Sports 17 or 6.7%
44710	273	Falls 95 or 34.8%	Struck By/Striking Object 68 or 24.9%	Wheeled Sports 21 or 7.7%
44714	164	Falls 58 or 33.7%	Struck By/Striking Object 37 or 22.6%	Motor Vehicle & Cutting/Knives 13 or 7.9%
44718	85	Falls 28 or 32.9%	Struck By/Striking Object 22 or 25.9%	Motor Vehicle & Cutting/Knives 6 or 7.1%
44720	235	Falls 87 or 37.0%	Struck By/Striking Object 56 or 23.8%	Motor Vehicle 26 or 11.1%
44721	142	Falls 55 or 38.7%	Struck By/Striking Object 29 or 20.4%	Wheeled Sports 12 or 8.5%
44730	113	Falls 39 or 34.5%	Struck By/Striking Object 31 or 27.4%	Cutting/Knives 9 or 8.0%
44735	0	N/A	N/A	N/A

Significant Findings

- The majority of the injuries occur during the spring and fall.
- Two year old children suffered more injuries than any other age group. Two year old children also had the highest rate of injury.
- 60% of poisonings were drug related (prescription and OTC)
- The 44601 zip code was the leading zip code for eleven of the top twelve injury categories.
- About 1 in 3 children ages 0-14 in the 44670 zip code were seen in the ER for an injury.
- The 44685 zip code had the lowest rate of injury for their children at 10.7 per 1,000.
- Females suffered more injuries than males in only one category: *Overexertion/Strenuous Movements*.
- The majority of the *falls* were “unspecified”.
- One year olds suffered the most *falls*.
- *Overexertion/Strenuous Movement* injuries spiked at ages 10-14.
- There were more *motor vehicle* injuries for children ages 8 to 14 than for children ages 0 to 7 years of age.
- The majority of the *wheeled sports* injuries were bicycle related. Over 57% of the wheeled sport injuries were suffered by children ages ten to fourteen (middle school age).
- Dog bites accounted for 53% of the *animal related* injuries.
- Three year olds suffered more *foreign body* injuries than any other age group.
- One year olds suffered more *burns* (not fire related) than any other age group.
- Males had a much higher *abuse/assault/neglect* rate. The number of overall incidence got significantly higher for older children.
- The top two (of twelve) most occurring injuries, *falls* and *struck by/striking objects/sports*, accounted for over 57% of all injuries.

Recommendations

- Work with organizations (hospitals, school districts, etc) in the 44601 zip code to identify possible interventions to decrease the injury rate.
- Determine a method to compare number of injuries per zip code to injury rate, based on the zip code population.
- Incorporate injury prevention strategies into existing community programs, pediatrician offices and clinics, schools, preschools and daycares.
- Develop a mechanism to document all types of injury prevention occurring, aside from work done through the Injury Prevention Grant (Stark County Health Department) and Safe Kids Stark County.
- Present findings to Safe Kids Stark County, Stark County Health Department, local hospitals, the Stark County Child Fatality Review Board and other community groups and agencies.
- Publish this document on the Safe Kids Stark County website.
- Provide this information to Safe Kids Worldwide and Safe Kids USA.
- Use data to impact prevention strategies.
- Determine the level of injury prevention occurring in pediatrician offices and in schools.
- Provide this report to local elementary and middle schools, as well as parent education programs.
- Injury Specific Recommendations:
 - Create an awareness campaign for falls to educate parents and caregivers.
 - Work with hospitals to improve charting, which should decrease the number of “generic” or “unspecified” types of injuries.
 - Increase injury prevention programming in the 44601 zip code.
 - Work with the hospital staff to get more specific when coding the falls—decrease the number of “unspecified”.
 - Work to educate parents and care givers of children ages 4 to 8 to use booster seats and children over age 8 to use safety belts.
 - Work to encourage children ages 10 to 14 to wear bicycle helmets.
 - Collaborate with local health departments to compare reportable animal bite numbers with e-code numbers.

Current Safe Kids Injury Prevention Programs

Safe Kids Stark County was established in 1992 to reduce unintentional injuries and death among children 14 and under in Stark County. The 90 member coalition is comprised of child safety advocates who support this mission. The Coalition conducts safety events throughout the county year round. Members of the Coalition also conduct their own safety programs in their communities.

Program Highlights

Child Passenger Safety/Car Seat Safety

- Car Seat Distribution Program: Safe Kids provides low-cost seats to families on the WIC (Women, Infant and Children's) Food Supplement Program through the local health departments. The group has given out over 1,750 car seats to families.
- Child Safety Seat Inspections: The coalition offers free car seat check-ups in the community throughout the year. Over 35 members have been certified by the National Highway Traffic Safety Administration (NHTSA) as Certified Child Passenger Safety Technicians. The coalition has hosted over 100 inspections and checked over 3,000 seats.
- Fitting Stations: The Coalition has organized weekly car seat fitting stations at 4 locations. These check-ups are free to the public.

Fire Safety

- Hector the Missing Smoke Detector: The annual educational program has been implemented in 5 elementary schools, resulting in the distribution of over 1,500 batteries and educational materials.
- Instilling Positive Fire Safety Reaction: In 2002, the coalition produced a fire safety video that teaches adults and children how to escape a burning building. This video has been disseminated to all county fire departments, and is being used in other counties across the state.

Bike Safety

- Use Your Head, Wear A Helmet: Helmets are sold at cost to the community. Helmets and educational materials are distributed at community events. The Coalition also offers free helmets to the county Emergency Departments for children treated with a head injury or wheel related incident.
- In bicycling safety classes, bicycles are considered vehicles, like cars, not toys. Children are taught age appropriate bicycle driving information to prevent injury. The importance of helmet use is emphasized.

Pedestrian Safety

- Safe Kids Walk This Way: In 2001, the coalition began to participate in the international program. Eight elementary schools were selected to have educational assemblies and a safety walk during the month of October since 2001. Following these programs, the Coalition reviews at the data from the walkability surveys and attempts to make safety changes surrounding the schools.

Safe Kids Day

- Each year, a free interactive safety fair is held in a selected community. This event is in conjunction with National Safe Kids Week. Children have the opportunity to participate in safety activities (provided by community organizations) and receive educational resources.

Other Areas

- The Coalition is a clearinghouse for other injury risk areas. Information is provided at health fairs and community events. Parents, caregivers and community members are able to call and request information from the Coalition and partner agencies.

Safe Kids Stark County
c/o Stark County Health Department
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Canton, Ohio 44718
330-493-9904 x 282
www.starkhealth.org/safekids