

Childhood Injury Report

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

**3rd Annual Report
January 1, 2004 - December 31, 2004**



REPORT PREPARED BY:

Safe Kids Stark County
Data & Research Committee
&

Stark County Health Department
Administration & Support Services Division



Funded by the Preventive Health and Health Services Block Grant from the Centers for Disease Control and Prevention (CDC) and administered by the Ohio Department of Health, Bureau of Health Promotion & Risk Reduction, Injury Prevention Program. Its contents are solely the responsibility of the Authors and do not necessarily represent the official views of CDC.

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Committee & Report Information

Data & Research Committee Members

<i>Safe Kids Coordinator:</i> Amanda Eckelberry 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 **Alliance Community Hospital, Aultman Hospital, Doctors Hospital of Stark County, Massillon Community Hospital and Mercy Medical Center** from January 1, 2004 through December 31, 2004. "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 report.

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 a pilot report for 2002 and is currently working on the 2005 report and 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, 2004 through December 31, 2004. During that time, 8,913 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 Room's 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.

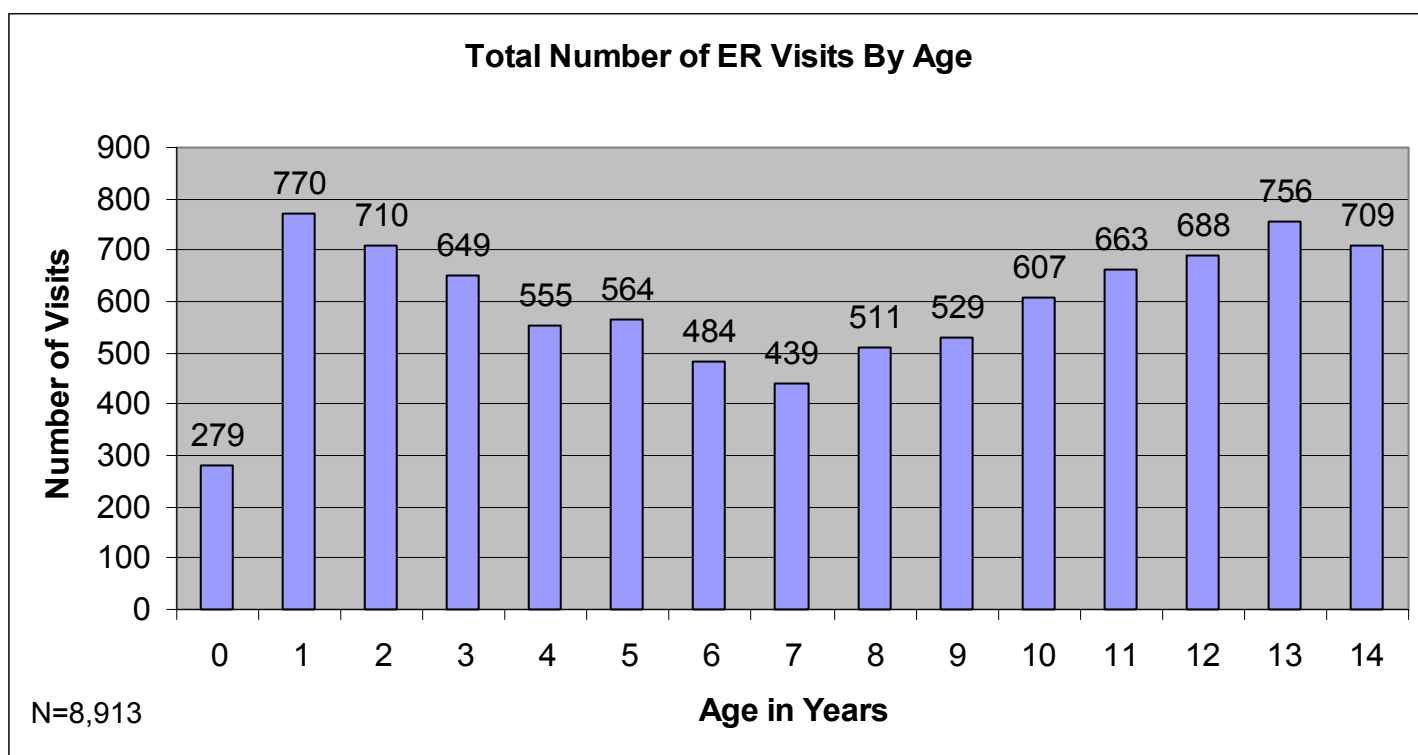
Demographic Analysis

- More male patients were treated for injuries than female patients.
- May was the most prevalent month for emergency room visits, followed by September and July, respectively.
- One year old children were most often seen in the emergency rooms, followed by thirteen year olds and two year olds, respectively.
- One year old children have the highest injury rate, followed by two year olds and thirteen year olds, respectively.
- The 44601 zip code (Alliance City, Lexington Twp, Marlboro Twp, Washington Twp) had the highest number of children treated for injuries (1,445).
- The 44670 zip code (Minerva, Paris Twp, Robertsville) had the highest rate of injury for children (344.8 per 1,000)

Overall Demographic Information

TOTAL NUMBER OF CHILDREN TREATED

8,913



Overall Demographic Information

Number of Visits By Age

Age	# Injuries	Population	% of Total Injuries	Rate of Injury by Population
0	279	4,769	3.1%	5,850.3 per 100,000
1	770	4,731	8.6%	16,275.6 per 100,000
2	710	4,826	8.0%	14,712.0 per 100,000
3	649	4,732	7.3%	13,715.1 per 100,000
4	555	5,109	6.2%	10,836.2 per 100,000
5	564	5,015	6.3%	11,246.3 per 100,000
6	484	5,048	5.4%	9,588.0 per 100,000
7	439	5,303	4.9%	8,278.3 per 100,000
8	511	5,406	5.7%	9,452.5 per 100,000
9	529	5,615	5.9%	9,421.2 per 100,000
10	607	5,629	6.8%	10,783.4 per 100,000
11	663	5,433	7.4%	12,203.2 per 100,000
12	688	5,326	7.7%	12,917.8 per 100,000
13	756	5,291	8.5%	14,288.4 per 100,000
14	709	5,517	8.0%	12,851.2 per 100,000

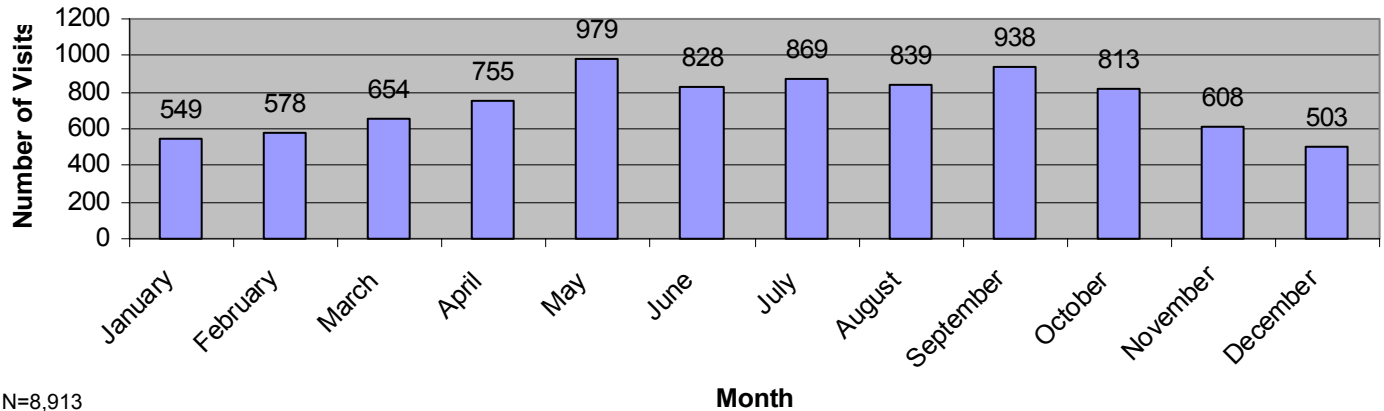
One year old children suffered the most injuries (770), accounting for 8.64% of all ER visits. One year old children also had the highest rate of injury, at 16,275.6 per 100,000.

Overall Demographic Information

TOTAL NUMBER OF CHILDREN TREATED

8,913

Total Number of ER Visits By Month



Number of Visits Per Month

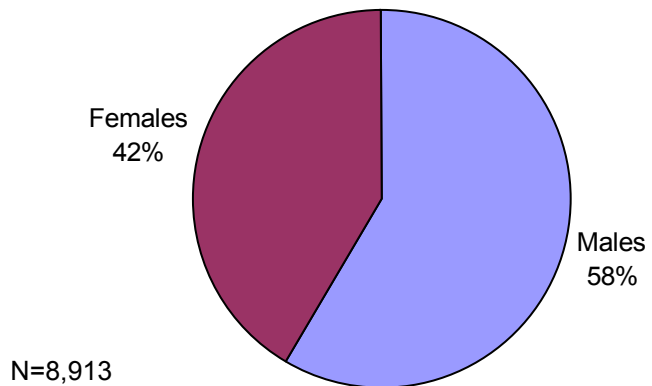
Month	#	%
January	549	6.2%
February	578	6.5%
March	654	7.3%
April	755	8.5%
May	979	11.0%
June	828	9.3%

Month	#	%
July	869	9.7%
August	839	9.4%
September	938	10.5%
October	813	9.1%
November	608	6.8%
December	503	5.6%

Number of Visits By Gender

Gender	#	%
Males	5,206	58.4%
Females	3,707	41.6%

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	1,445	193.7
44608	534	50	93.6
44613	508	49	96.5
44614	2,611	137	52.5
44626	595	88	147.9
44630	NA	2	NA
44632	2,161	43	19.9
44641	4,157	404	97.2
44643	663	69	104.1
44646	9,438	1,211	128.3
44647	3,342	444	132.9
44648	NA	2	NA
44650	NA	2	NA
44652	NA	2	NA
44657	2,122	242	114.0
44662	1,845	184	99.7
44666	635	58	91.3
44669	313	34	108.6
44670	29	10	344.8

Zip Code	Population (Ages 0-14)	# of Injuries	Injury Rate per 100,000 people
44685	5,330	53	9.9
44688	780	76	97.4
44689	215	12	55.8
44701	NA	13	NA
44702	108	16	148.1
44703	2,571	363	141.2
44704	1,310	176	134.4
44705	5,241	766	146.2
44706	3,997	575	143.9
44707	2,670	420	157.3
44708	4,647	464	99.8
44709	3,165	274	86.6
44710	1,973	329	166.8
44714	1,643	193	117.5
44718	2,283	113	49.5
44720	8,472	300	40.1
44721	2,595	135	52.0
44730	1,210	157	129.8
44735	NA	2	NA

TOTAL	8,913	83,624	106.6
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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
44710	Canton City, Canton Twp, Perry Twp
44707	Canton City, Canton Twp, North Industry, Waco
44702	Canton City
44626	East Sparta, Pike Twp.
44705	Canton City, Plain Twp
44706	Canton City, Canton Twp, East Sparta, Perry Twp
44703	Canton City
44704	Canton City, Canton 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.

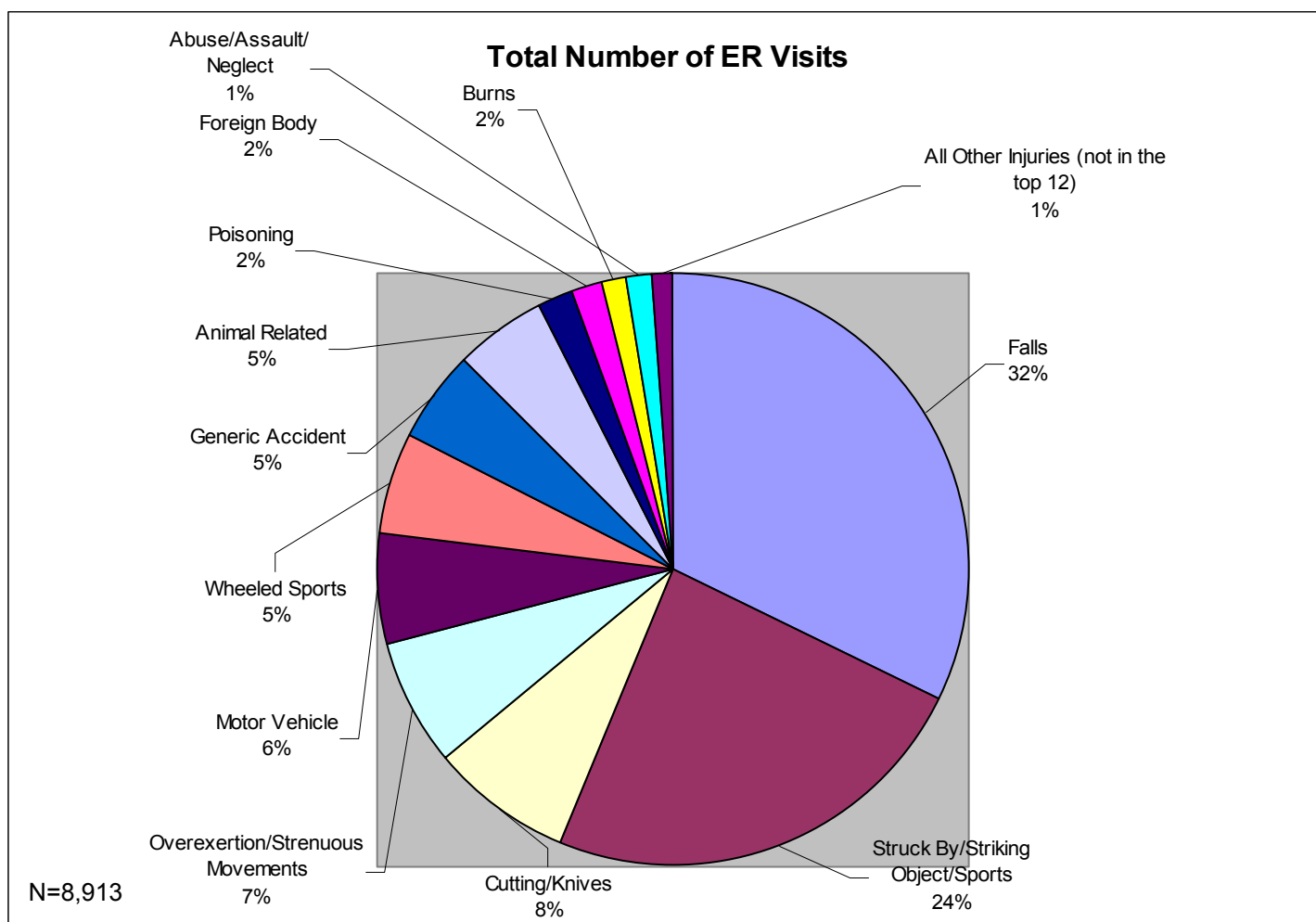
A	Motor Vehicle	L	Choking/Suffocation
B	Wheeled Sports	M	Foreign Body (Not Choking)
C	Water Related	N	Struck By/Striking Object/Sports
D	Generic Accident	O	Machinery
E	Poisoning	P	Cutting/Knives
F	Medical Procedures	Q	Fire Arms
G	Falls	R	Suicide
H	Fire Related	S	Burns (Not Fire Related)
I	Weather	T	Human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

Top 12 Leading Causes of Injury

There were 8,913 children treated between January 1, 2004 and December 31, 2004.

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

Injury Type	#	%
Falls	2,871	32.2%
Struck By/Striking Object/Sports	2,136	24.0%
Cutting/Knives	695	7.8%
Overexertion	619	6.9%
Motor Vehicle	547	6.1%
Wheeled Sports	484	5.4%
Animal Related	446	5.0%
Generic Accident	437	4.9%
Poisoning	194	2.2%
Burns (not house fire)	137	1.5%
Abuse, Assault, Neglect	134	1.5%
Foreign Body (not choking)	110	1.2%
All other Causes of Injury (not in the top 12)	103	1.2%



Falls

Falls were the leading cause of injury for children. There were 2,871 children treated for a fall related injury, accounting for 32.2% of the injuries during this report time frame.

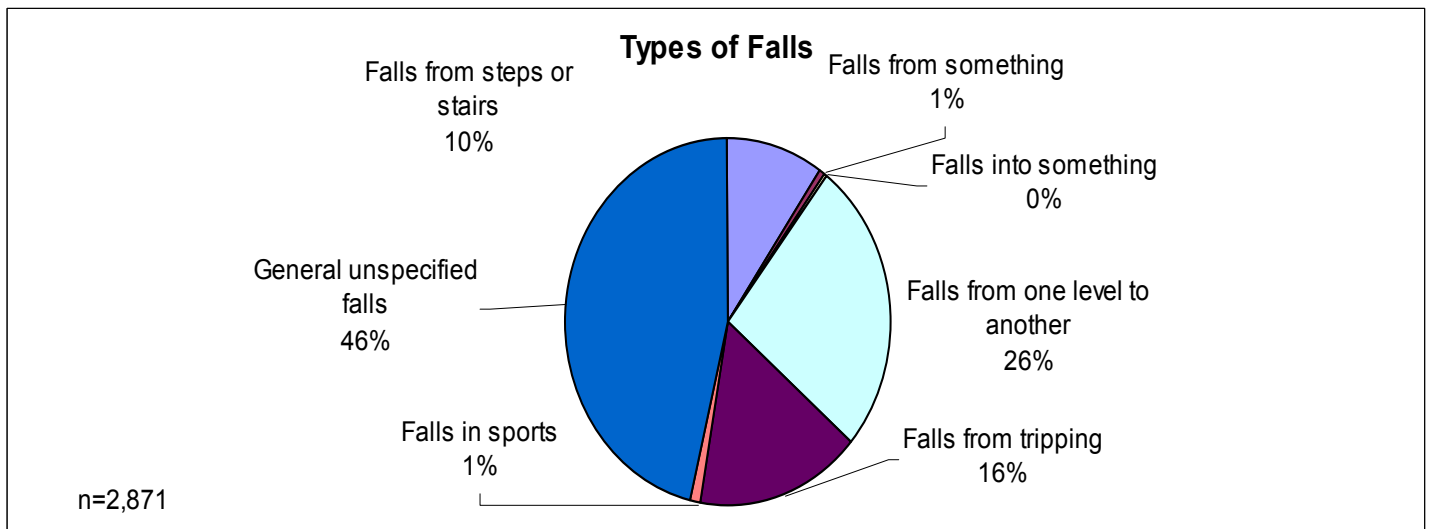
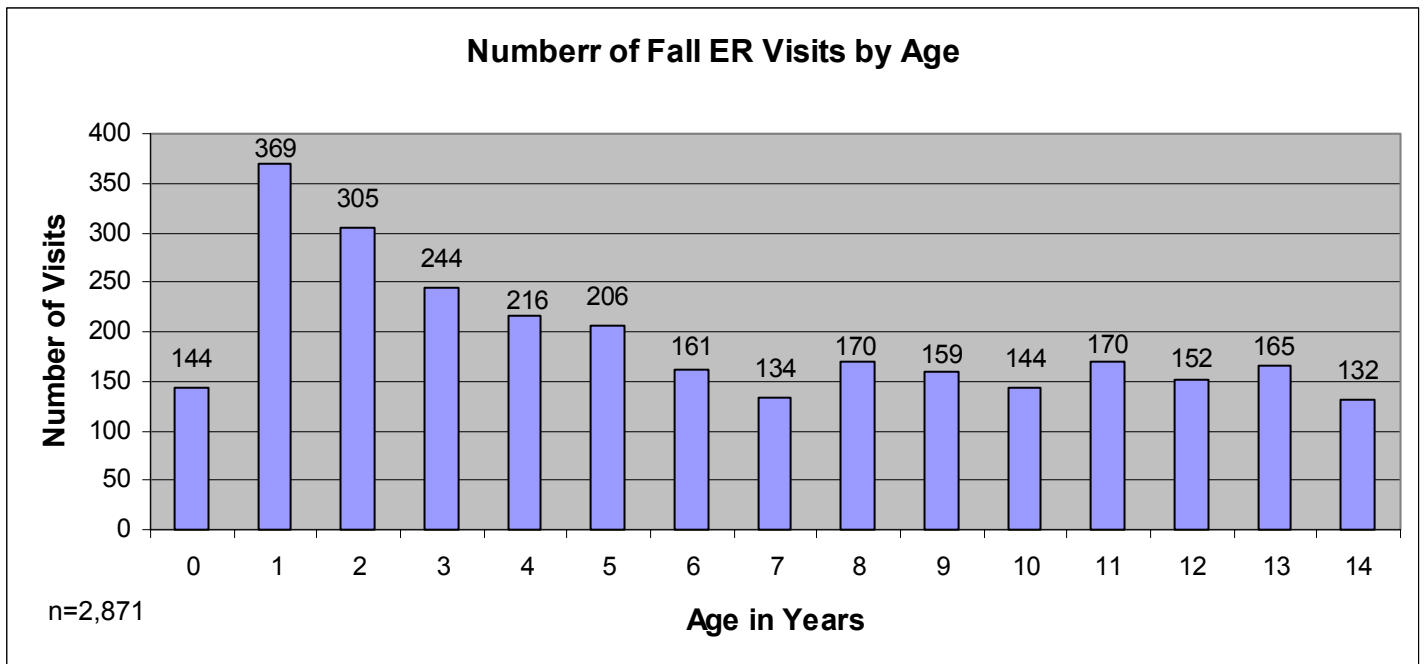
Number of Falls By Gender

Gender	#	%
Males	1,589	55.3%
Females	1,282	44.7%

Leading Zip Codes

Zip Code	#	%
44601	429	14.9%
44646	391	13.6%
44705	238	8.3%
44706	175	6.1%
44708	171	6.0%

May (317) is the most prevalent month for these injuries, followed by September (295) and October (271).



Struck By/Striking Object/Sports

There were 2,136 children treated for an injury caused by being struck by or striking an object. This was the second leading cause of injury, accounting for 24.0% of the injuries during this report time frame.

Number of Struck By/Striking Objects by Gender

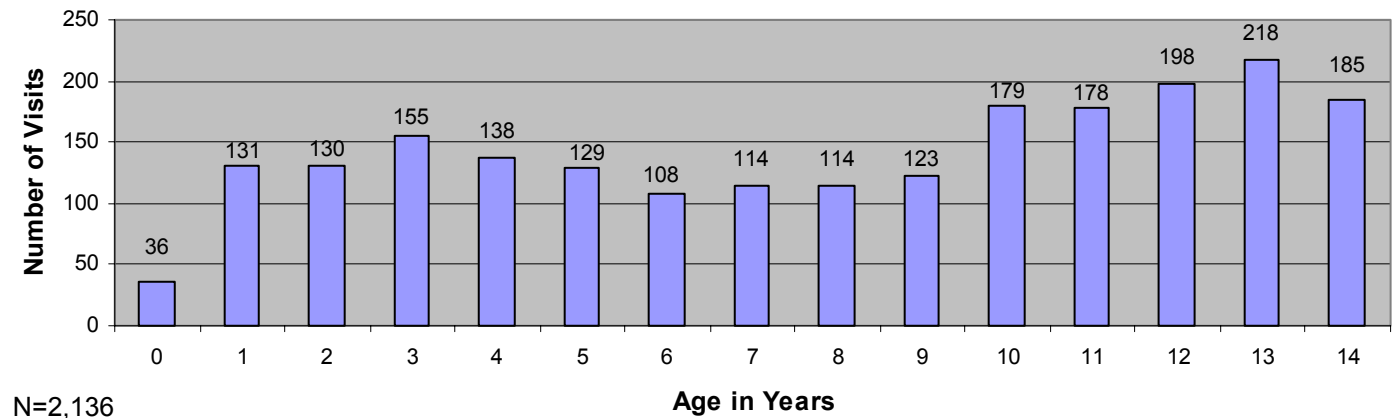
Gender	#	%
Males	1,384	64.8%
Females	752	35.2%

Leading Zip Codes

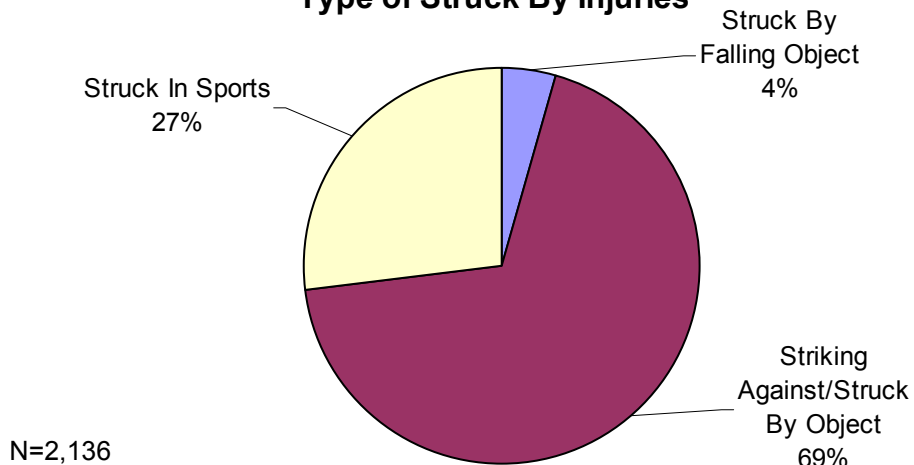
Zip	#	%
44601	319	14.9%
44646	313	14.7%
44705	189	8.8%
44706	164	7.7%
44647	108	5.1%

September (163) is the most prevalent month for these injuries, followed by May (229) and June (196).

Number of Struck By/Sports Injuries By Age



Type of Struck By Injuries



Cutting/Knives

There were 695 children treated for an injury caused by cutting instruments. This was the third leading cause of injury, accounting for 7.8% of the injuries during this report time frame.

Number of Visits By Gender

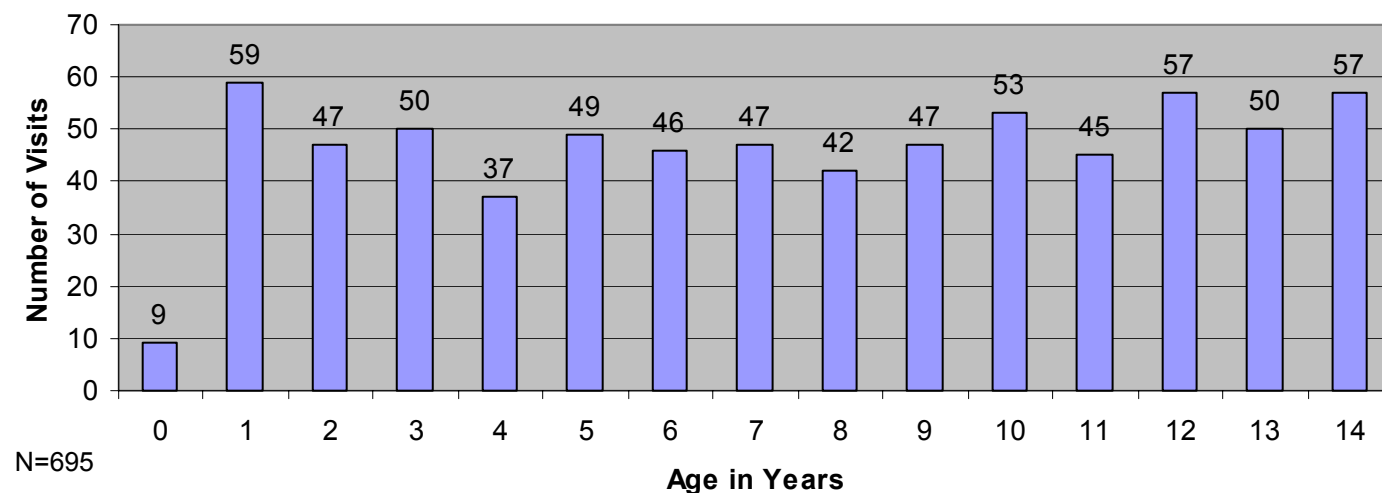
Gender	#	%
Males	441	63.5%
Females	254	36.5%

Leading Zip Codes

Zip	#	%
44601	134	19.3%
44646	92	13.2%
44705	61	8.8%
44706	43	6.2%
44707	42	6.0%

July (101) is the most prevalent month for these injuries, followed by June (82) and May (79).

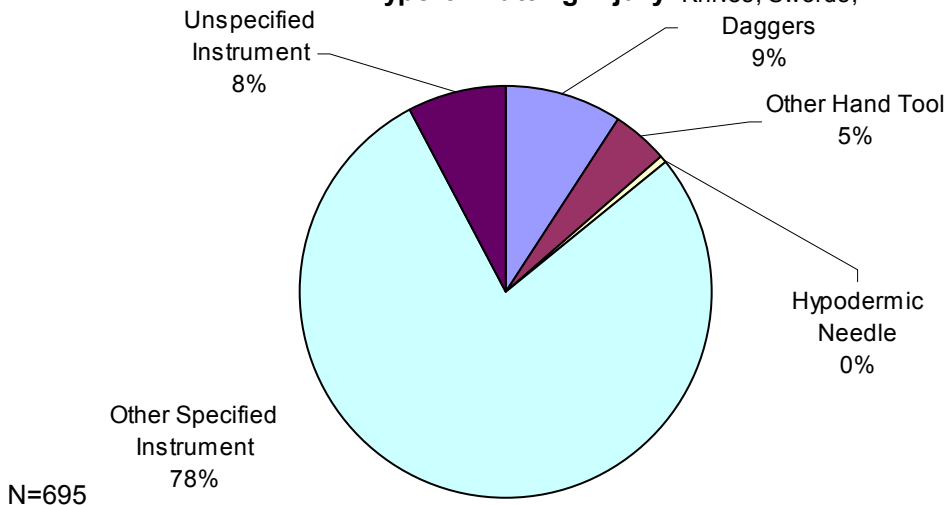
Number of Cutting ER Visits By Age



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 Injury



Overexertion/Strenuous Movements

There were 619 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.

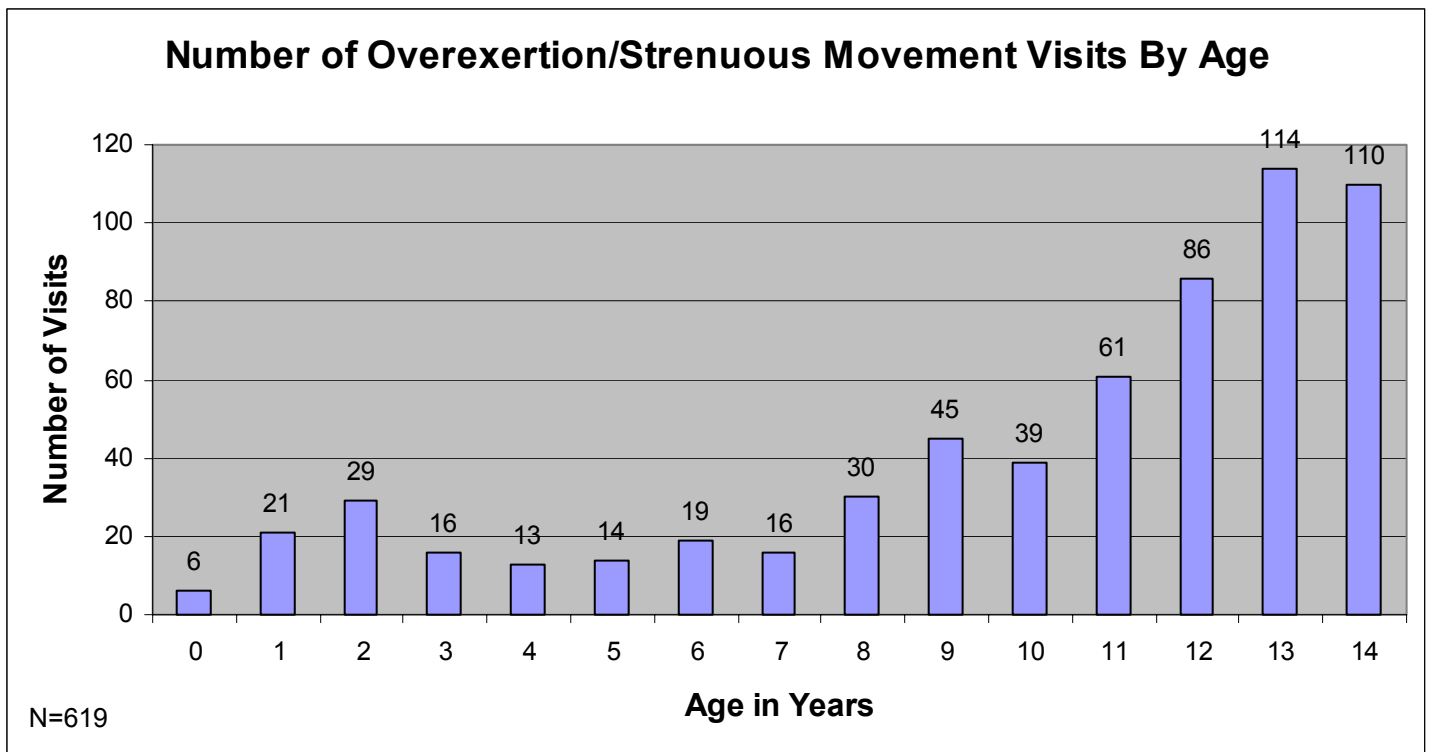
Number of Visits By Gender

Gender	#	%
Males	299	48.3%
Females	320	51.7%

Leading Zip Codes:

Zip	#	%
44601	125	20.2%
44646	71	11.5%
44641	41	6.6%
44705	41	6.6%
44647	39	6.3%

May (78) was the most prevalent month for these injuries, followed by September (69) and October (69).



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 547 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.

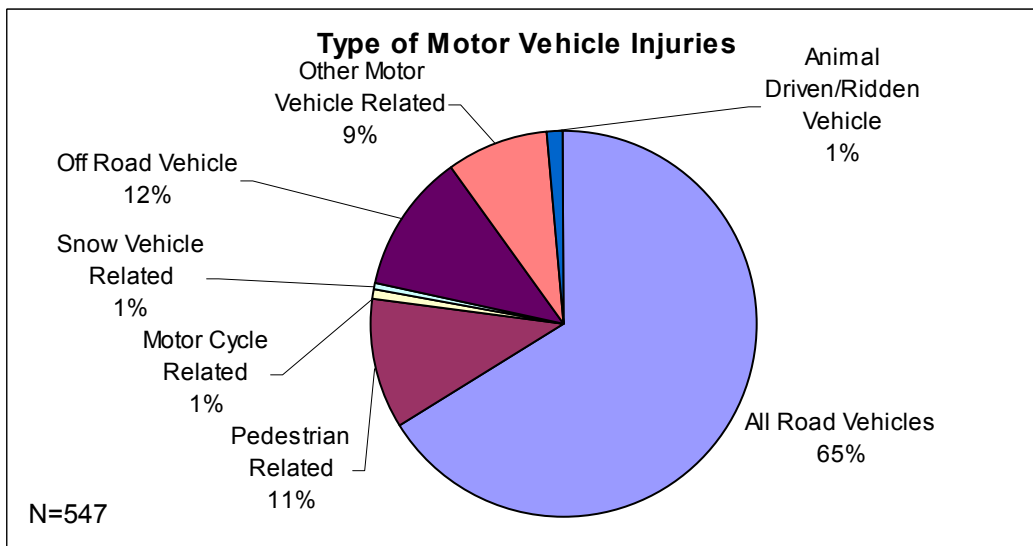
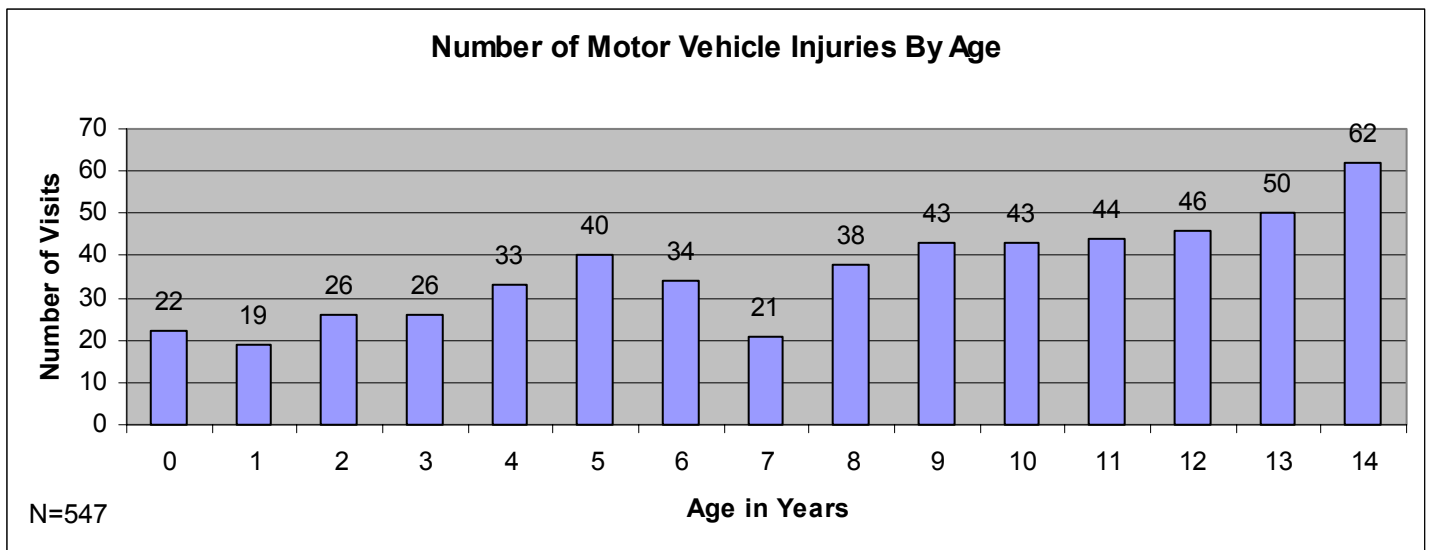
Number of Visits by Gender

Gender	#	%
Males	282	51.5%
Females	265	48.5%

Leading Zip Codes

Zip	#	%
44646	66	12.1%
44705	61	11.2%
44601	55	10.1%
44707	38	6.9%
44641	34	6.2%

July (68) is the most prevalent month for these injuries, followed by August (66) and May (56).



Wheeled Sports

There were 484 children treated for wheeled sports related injuries (such as bicycle, scooters, skateboards and rollerblades). This was the sixth leading cause of injury, accounting for 5.4% of the injuries during this report time frame.

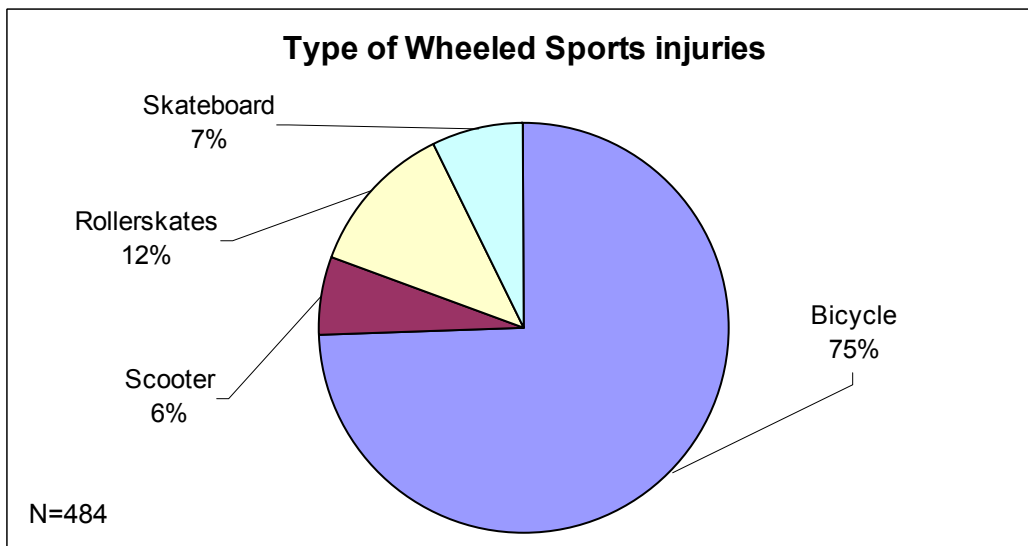
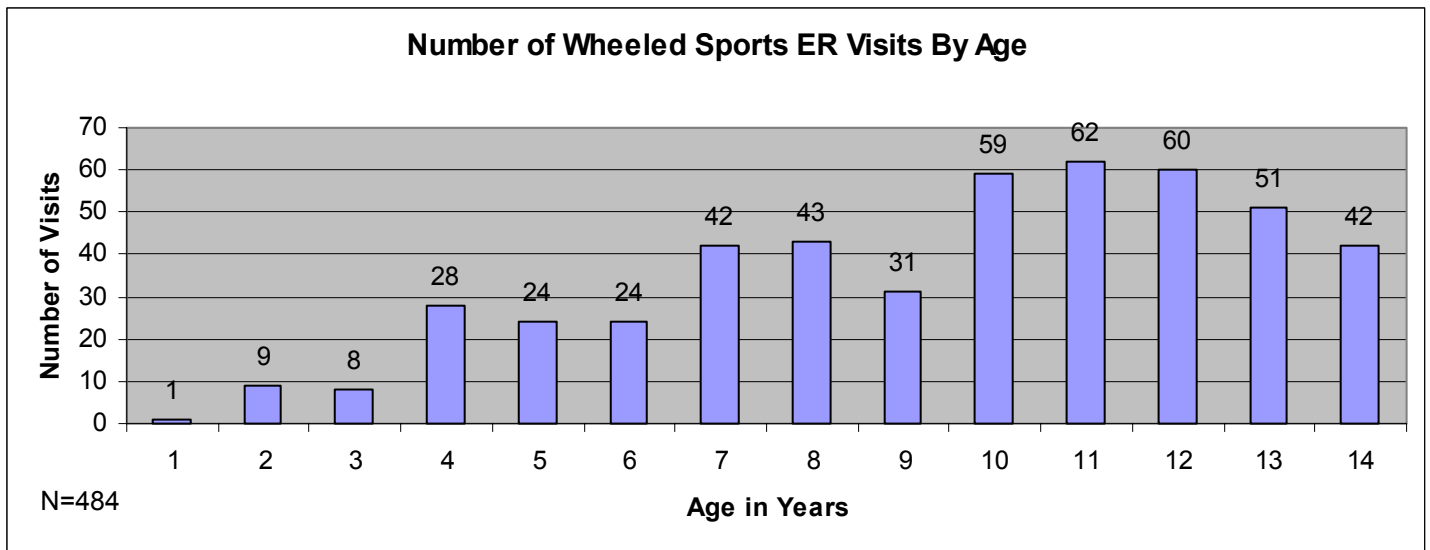
Number of Visits by Gender

Gender	#	%
Males	318	65.7%
Females	166	34.3%

Leading Zip Codes

Zip	#	%
44646	69	14.3%
44601	58	12.0%
44705	39	8.1%
44706	39	8.1%
44641	31	6.4%
44647	31	6.4%

August (76) was the most prevalent month for these injuries, followed by July (64) and September (64).



Generic Accident

There were 446 children treated for generic accident. This was the seventh leading cause of injury, accounting for 5.0% of the injuries during this report time frame.

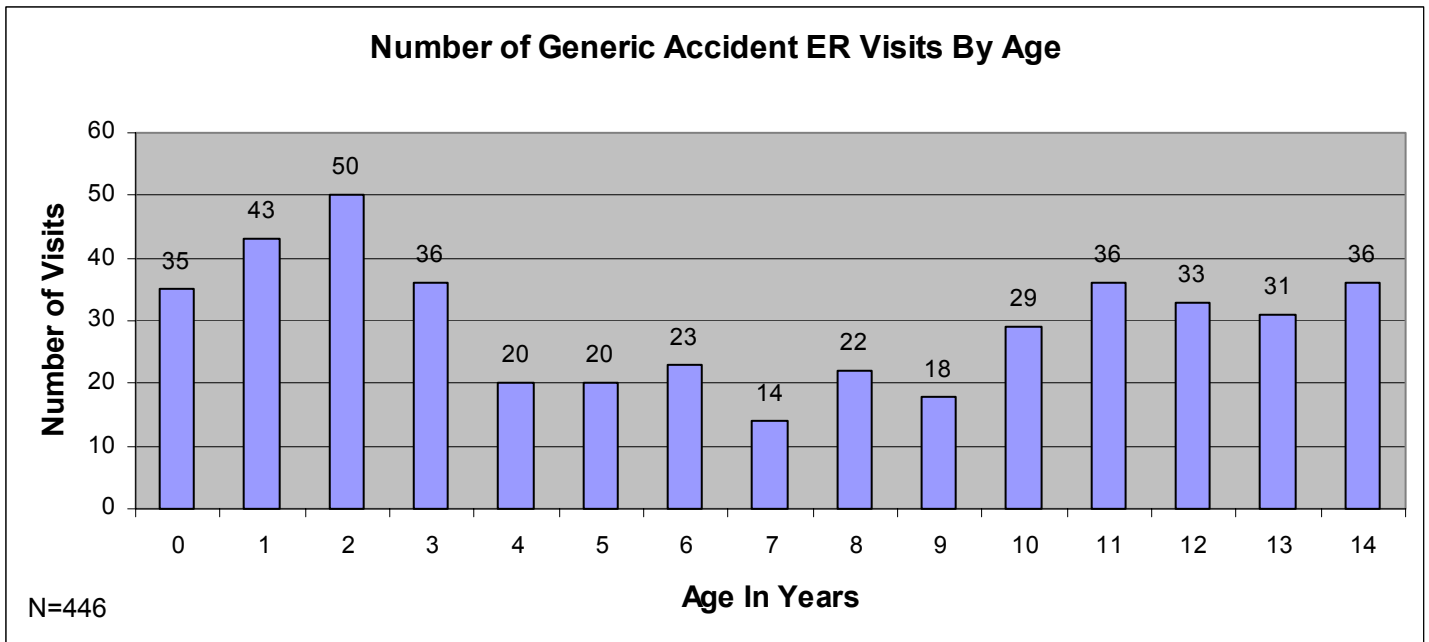
Number of Visits By Gender

Gender	#	%
Males	243	54.5%
Females	203	45.5%

Leading Zip Codes

Zip	#	%
44601	84	18.8%
44646	56	12.6%
44706	40	9.0%
44705	37	8.3%
44707	27	6.1%

October (49) is the most prevalent month for these injuries, followed by April (48) and June (46).



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 437 children treated for animal related. This was the eighth leading cause of injury, accounting for 4.9% of the injuries during this report time frame.

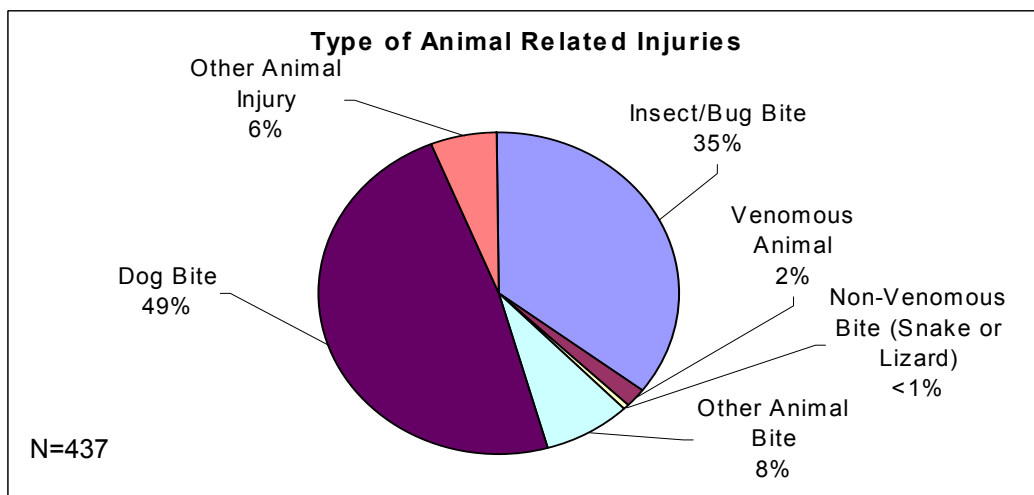
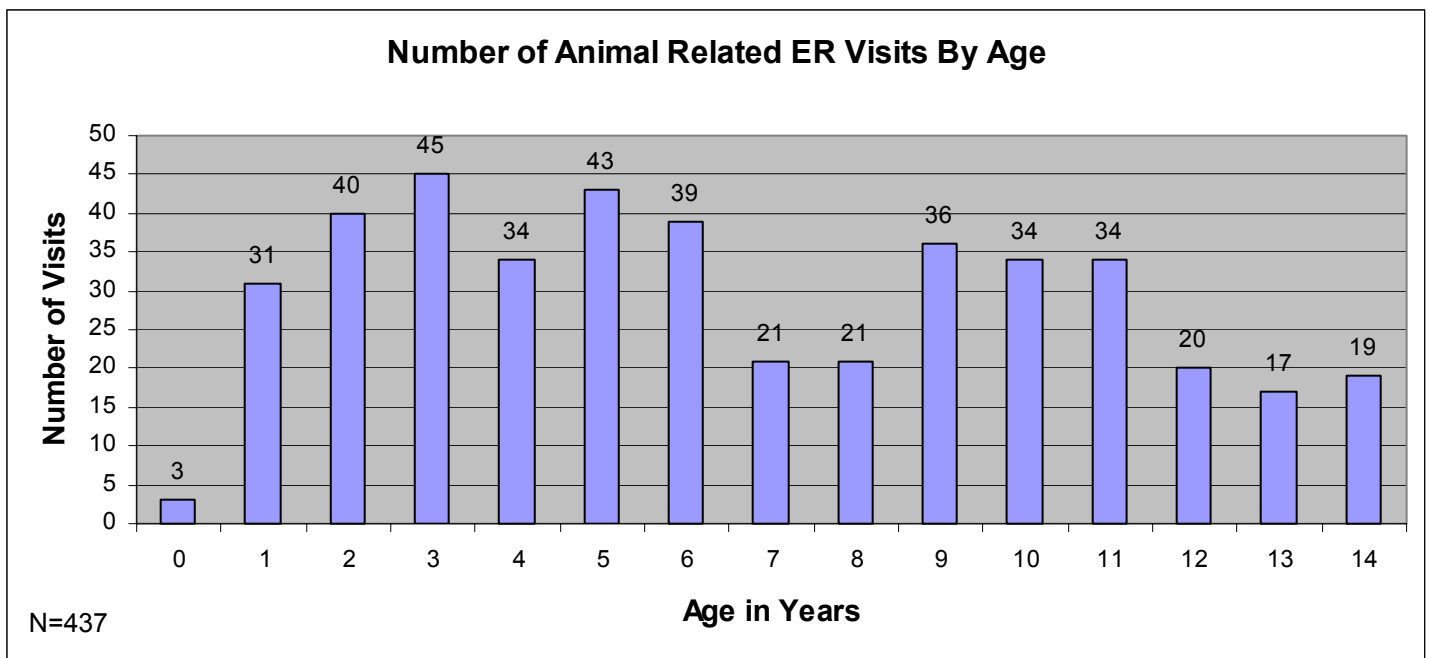
Number of Visits by Gender

Gender	#	%
Males	250	57.2%
Females	187	42.8%

Leading Zip Codes

Zip	#	%
44601	90	20.6%
44646	60	13.7%
44705	39	8.9%
44706	28	6.4%
44647	24	5.5%

July (83) was the most prevalent month for these injuries, followed by September (57) and August (54).



Poisoning

There were 194 children treated for poisoning injuries. This was the ninth leading cause of injury, accounting for 2.2% of the injuries during this report time frame.

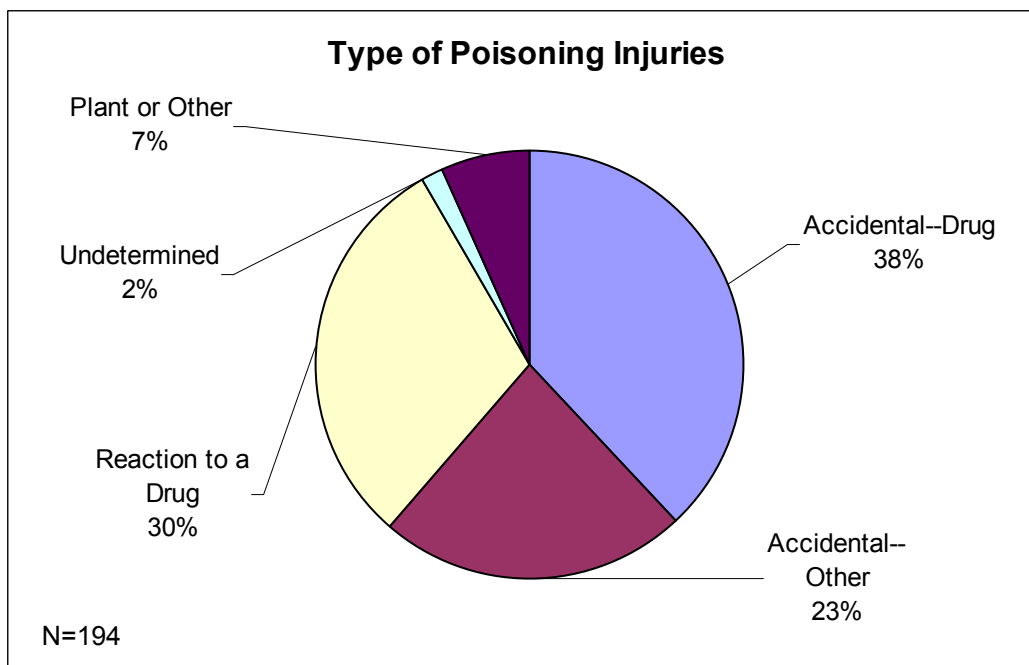
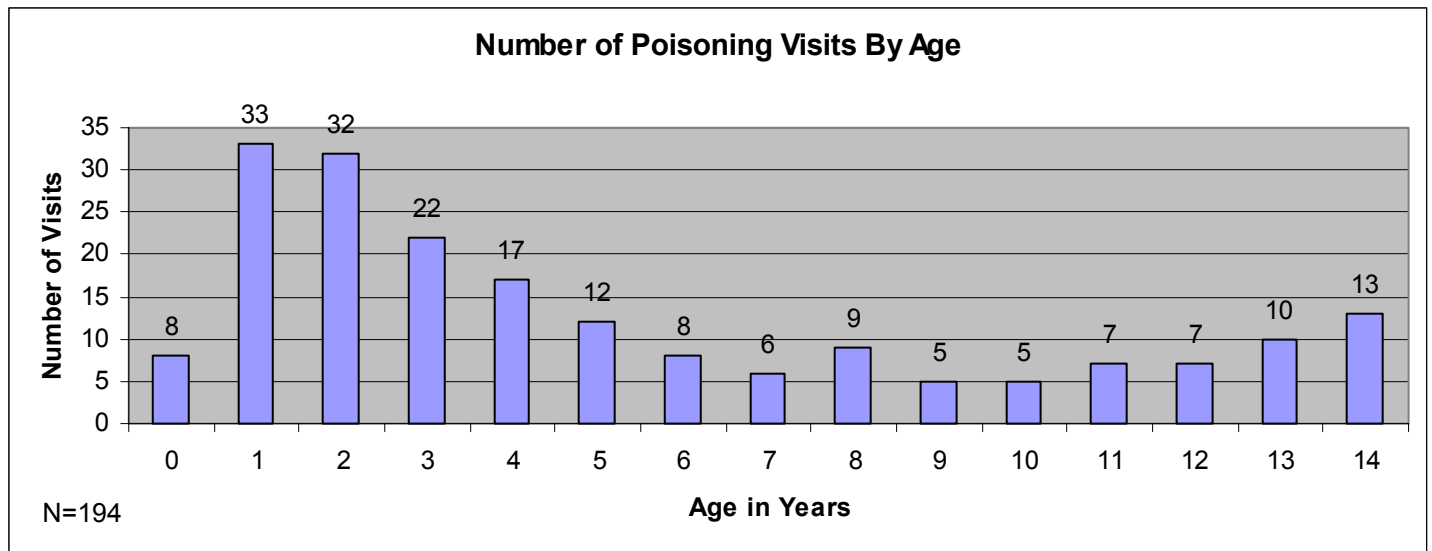
Number of Visits By Gender

Gender	#	%
Males	117	60.0%
Females	77	40.0%

Leading Zip Codes

Zip	#	%
44601	46	23.7%
44646	29	14.9%
44705	22	11.3%
44641	13	6.7%
44720	11	5.7%

August (33) is the most prevalent month for these injuries, followed by July (21) and October (20).



Foreign Body

There were 137 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.

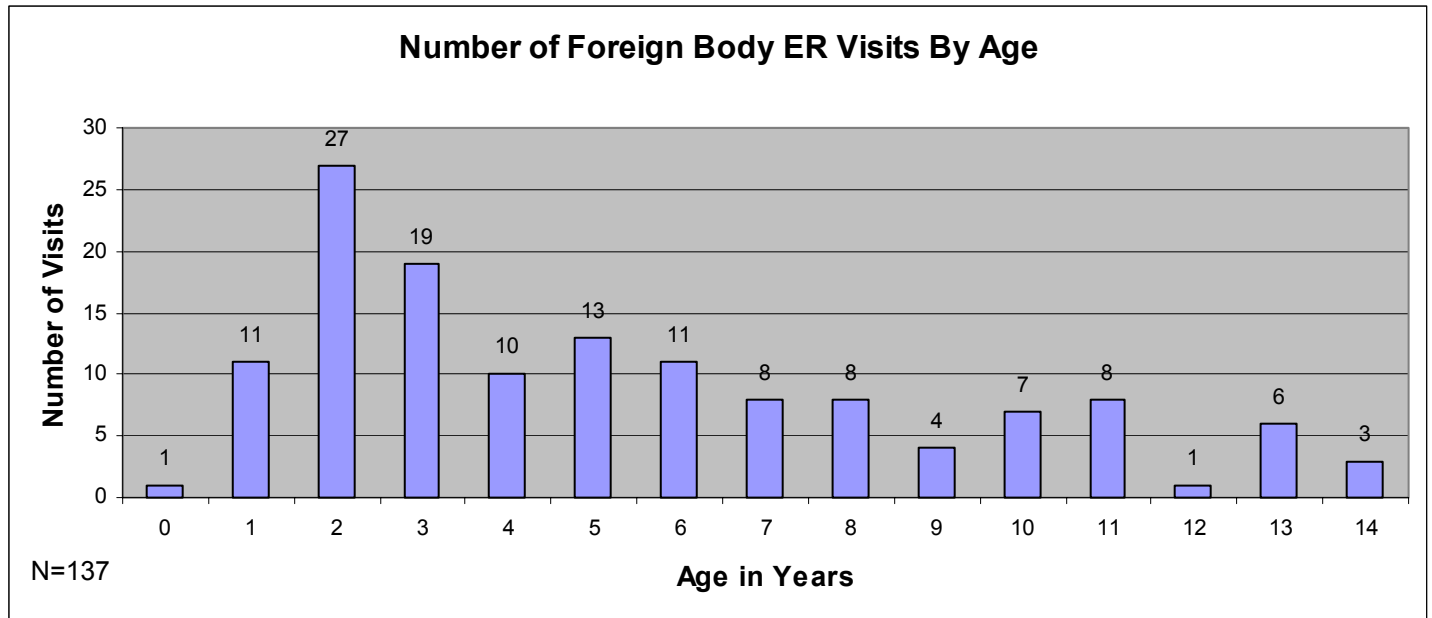
Number of Visits by Gender

Gender	#	%
Males	73	53.3%
Females	64	46.7%

Leading Zip Codes

Zip	#	%
44601	35	25.5%
44646	27	19.7%
44647	12	8.8%
44705	8	5.8%
44662	5	3.6%
44730	5	3.6%

April (19) was the most prevalent month for these injuries, followed by October (16) and May (13) and August (13).



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.

Burns (not fire related)

There were 134 children treated for burns (not fire related) injuries. This was the eleventh leading cause of injury, accounting for 1.5% of the injuries during this report time frame.

Number of Visits By Gender

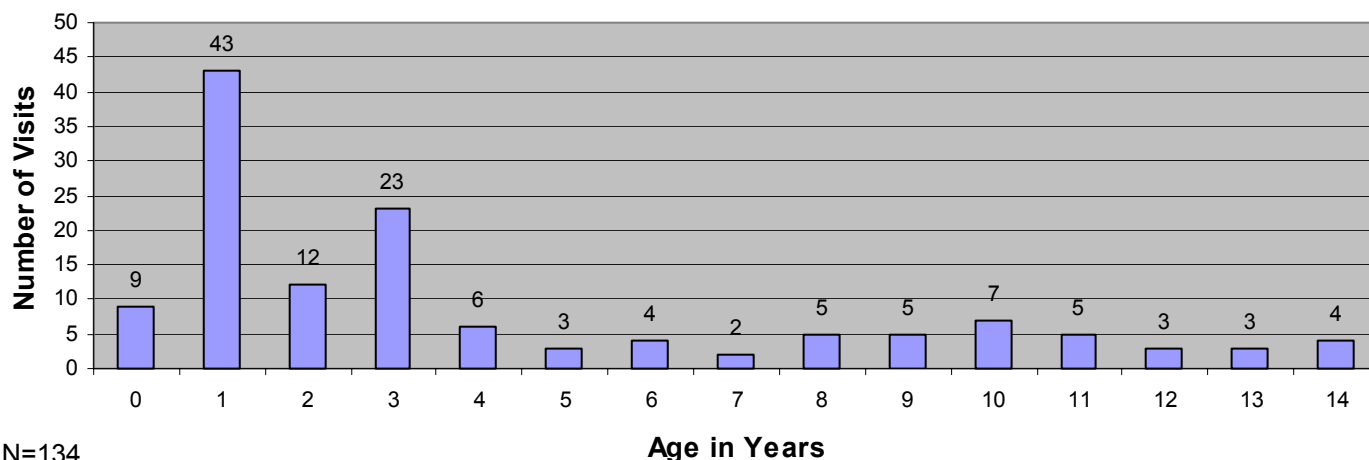
Gender	#	%
Males	72	53.7%
Females	62	46.3%

Leading Zip Codes

Zip	#	%
44601	29	21.6%
44705	14	10.4%
44707	14	10.4%
44646	12	9.0%
44708	9	6.7%

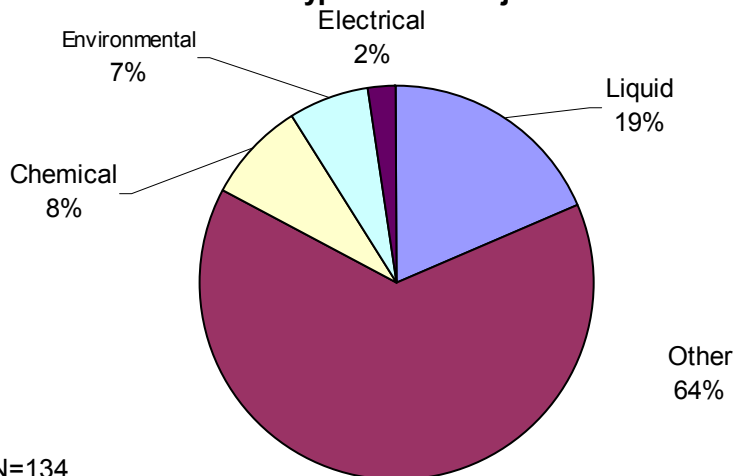
July (20) is the most prevalent month for these injuries, followed by May (18) and June (16).

Number of Burn ER Visits By Age



N=134

Type of Burn Injuries



N=134

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 2003 reporting year.

Abuse/Assault/Neglect

There were 110 children treated for abuse/assault/neglect related injuries. This was the twelfth leading cause of injury, accounting for 1.2% of the injuries during this report time frame.

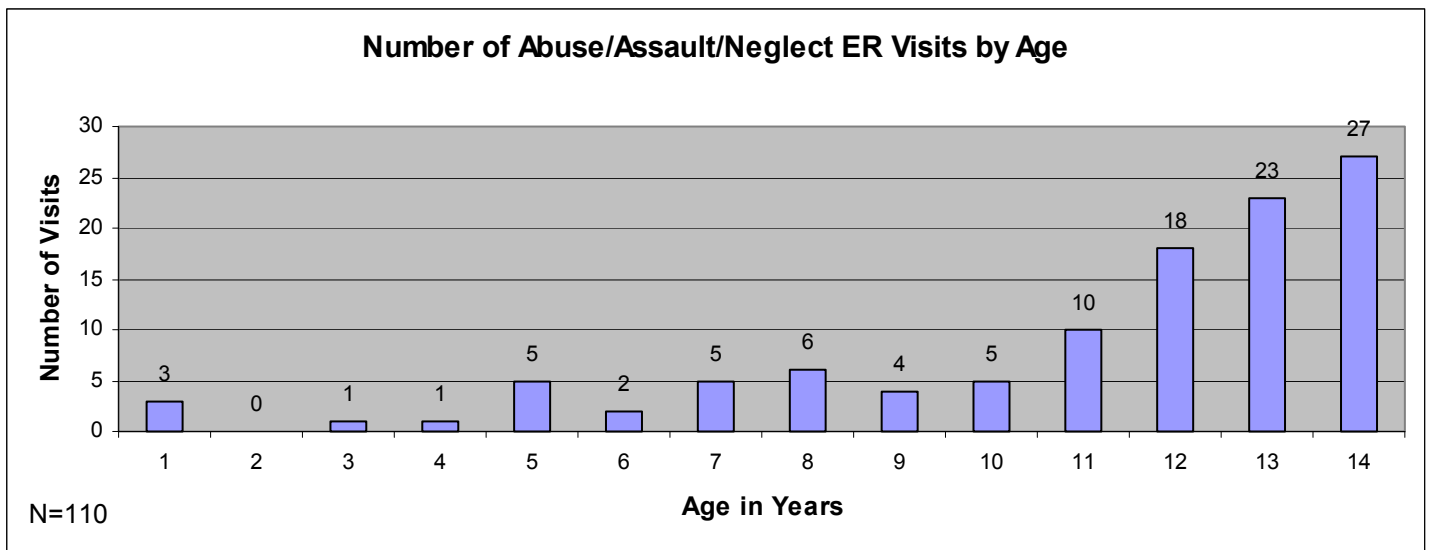
Number of Visits By Gender

Gender	#	%
Males	78	70.9%
Females	32	29.1%

Leading Zip Codes

Zip	#	%
44601	24	21.8%
44707	13	11.8%
44705	11	10.0%
44646	9	8.2%
44703	6	5.5%

November (14) is the most prevalent months for these injuries, followed by March (11) and September (11).



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	279	Falls 144 or 51.6%	Struck By/Striking Object 36 or 12.9%	Generic Accidents 35 or 12.5%
1	770	Falls 369 or 47.9%	Struck By/Striking Object 131 or 17.0%	Cutting/Knives 59 or 7.7%
2	710	Falls 305 or 43.0%	Struck By/Striking Object 130 or 18.3%	Generic Accident 50 or 7.0%
3	649	Falls 244 or 37.6%	Struck By/Striking Object 155 or 23.9%	Cutting/Knives 50 or 7.7%
4	555	Falls 216 or 38.9%	Struck By/Striking Object 138 or 24.9%	Cutting/Knives 37 or 6.7%
5	564	Falls 206 or 36.5%	Struck By/Striking Object 129 or 22.9%	Cutting/Knives 49 or 8.7%
6	484	Falls 161 or 33.3%	Struck By/Striking Object 108 or 22.3%	Cutting/Knives 46 or 9.5%
7	439	Falls 134 or 30.5%	Struck By/Striking Object 114 or 26.0%	Cutting/Knives 47 or 10.7%
8	511	Struck By/Striking Object 170 or 33.3%	Falls 114 or 22.3%	Wheeled Sports 43 or 8.4%
9	529	Falls 159 or 30.1%	Struck By/Striking Object 123 or 23.3%	Cutting/Knives 47 or 8.9%
10	607	Struck By/Striking Object 179 or 29.5%	Falls 144 or 23.7%	Wheeled Sports 59 or 9.7%
11	663	Struck By/Striking Object 178 or 26.8%	Falls 170 or 25.6%	Wheeled Sports 62 or 9.4%
12	688	Struck By/Striking Object 198 or 28.8%	Falls 152 or 22.1%	Overexertion 86 or 12.5%
13	756	Struck By/Striking Object 218 or 28.8%	Falls 165 or 21.8%	Overexertion 114 or 15.1%
14	709	Struck By/Striking Object 185 or 26.1%	Falls 132 or 18.6%	Overexertion 110 or 15.5%

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
44601	1,445	Falls 429 or 29.7%	Struck By/Striking Object 319 or 22.1%	Cutting/Knives 134 or 9.3%
44608	50	Falls 16 or 32%	Struck By/Striking Object 15 or 30%	Wheeled Sports 5 or 10%
44613	49	Struck By/Striking Object 15 or 30.6%	Falls 8 or 16.3%	Motor Vehicle 5 or 10.2% Poisoning 5 or 10.2%
44614	137	Falls 52 or 38.0%	Struck By/Striking Object 29 or 21.2%	Motor Vehicle 12 or 8.8% Cutting/Knives 12 or 8.8%
44626	88	Falls 26 or 29.5% Struck By/Striking Object 26 or 29.5%	Overexertion 8 or 9.1%	Cutting/Knives 7 or 8.0%
44630	2	Wheeled Sports 2 or 100%	N/A	N/A
44632	43	Falls 13 or 30.2%	Struck By/Striking Object 9 or 20.9%	Motor Vehicle 6 or 14.0%
44641	404	Falls 121 or 30.0%	Struck By/Striking Object 80 or 19.8%	Overexertion 41 or 10.1%
44643	69	Falls 30 or 43.5%	Struck By/Striking Object 12 or 17.4%	Overexertion 8 or 11.6%
44646	1,211	Falls 391 or 32.3%	Struck By/Striking Object 313 or 25.8%	Cutting/Knives 92 or 7.6%
44647	444	Falls 133 or 30.0%	Struck By/Striking Object 108 or 24.3%	Overexertion 39 or 8.8%
44648	2	Abuse/Assault/Neglect 1 or 50%	Struck By/Striking Object 1 or 50%	N/A
44650	2	Struck By/Striking Object 2 or 100%	N/A	N/A
44652	2	Abuse/Assault/Neglect 1 or 50%	Struck By/Striking Object 1 or 50%	N/A

Leading Cause of Injuries Per Zip Code

44657	242	Falls 81 or 33.5%	Struck By/Striking Object 65 or 26.9%	Overexertion 17 or 7.0%
44662	184	Falls 64 or 34.8%	Struck By/Striking Object 41 or 22.3%	Cutting/Knives 14 or 7.6%
44666	58	Falls 20 or 34.5%	Struck By/Striking Object 16 or 27.6%	Overexertion 5 or 8.6%
44669	34	Falls 12 or 35.3%	Struck By/Striking Object 11 or 32.4%	Animal Related 3 or 8.8% Overexertion 3 or 8.8%
44670	10	Falls 5 or 50%	Motor Vehicle, Generic Accident, Foreign Body, Machinery and Cutting/Knives 1 or 10% (each)	N/A
44685	54	Falls 17 or 31.5%	Struck By/Striking Object 16 or 29.6%	Motor Vehicle 6 or 11.1%
44688	76	Struck By/Striking Object 23 or 30.3%	Falls 19 or 25%	Motor Vehicle 8 or 10.5%
44689	12	Falls 5 or 41.7%	Struck By/Striking 4 or 33.3%	Wheeled Sports 2 or 16.7%
44701	13	Struck By/Striking Object 6 or 46.2%	Motor Vehicle, Generic Accident, Poisoning, Falls, Abuse/Assault/Neglect, Cutting/Knives and Overexertion 1 or 7.7% (each)	N/A
44702	16	Falls 4 or 25% Struck By/Striking Object 4 or 35%	Motor Vehicle 2 or 12.5% Cutting/Knives 2 or 12.5%	Abuse/Assault/Neglect, Animal Related, Foreign Body and Overexertion 1 or 6.3% (each)
44703	363	Falls 130 or 35.8%	Struck By/Striking Object 76 or 20.9%	Cutting/Knives 31 or 8.5%
44704	176	Falls 46 or 26.1%	Struck By/Striking Object 42 or 23.9%	Overexertion 16 or 9.1%

Leading Cause of Injuries Per Zip Code

44705	766	Falls 238 or 31.1%	Struck By/Striking Object 189 or 24.7%	Motor Vehicle 61 or 8.0% Cutting/Knives 61 or 8.0%
44706	575	Falls 175 or 30.4%	Struck By/Striking Object 164 or 28.5%	Cutting/Knives 43 or 7.5%
44707	420	Falls 112 or 26.7%	Struck By/Striking 95 or 22.6%	Cutting/Knives 42 or 10%
44708	464	Falls 171 or 36.9%	Struck By/Striking Object 102 or 22.0%	Cutting/Knives 41 or 8.8%
44709	274	Falls 110 or 40.1%	Struck By/Striking Object 62 or 22.6%	Overexertion 20 or 7.3%
44710	329	Falls 108 or 32.8%	Struck By/Striking Object 84 or 25.5%	Cutting/Knives 23 or 7.0%
44714	193	Falls 65 or 33.7%	Struck By/Striking Object 42 or 21.8%	Cutting/Knives 18 or 9.3%
44718	113	Falls 50 or 44.2%	Struck By/Striking Object 28 or 24.8%	Cutting/Knives 10 or 8.9%
44720	300	Falls 108 or 36.0%	Struck By/Striking Object 71 or 23.7%	Motor Vehicle 30 or 10%
44721	134	Falls 56 or 41.8%	Struck By/Striking Object 30 or 22.4%	Motor Vehicle 11 or 8.2%
44730	157	Falls 54 or 34.4%	Struck By/Striking Object 35 or 22.3%	Overexertion 14 or 8.9%
44735	2	Poisoning 1 or 50.0%	Falls 1 or 50.0%	N/A

Significant Findings

- The majority of the injuries occur during the spring and fall.
- One year old children suffered more injuries than any other age group.
- 68% of poisonings were drug related (prescription and OTC)
- The 44601 zip code was the leading zip code for ten of the top twelve injury categories; the leading zip code for *motor vehicle and wheeled sports injuries* was 44646. The difference between 44601 and the next highest zip code in most categories is an average of over 5% more. That's an average of 24.5 kids more than other zip codes in 10 of 12 categories.
- About 1 in 3 children ages 0-14 in the 44670 zip code were seen in the ED for an injury.
- The 44685 zip code had the lowest rate of injury for their children at 9.9 per 1,000.
- Females suffered more injuries than males in only 1 category: *Overexertion/Strenuous Movements*.
- The majority of the *falls* were "unspecified".
- One year olds suffered the most *falls*.
- *Struck By/Striking Object/Sports* injuries occurred fairly evenly across the age groups, with a slight increase after age 10.
- *Cutting/Knives* injuries occurred very evenly across the age groups.
- *Overexertion/Strenuous Movement* injuries spiked at ages 12-14.
- 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 55% of these injuries were suffered by children ages ten to fourteen (middle school age).
- Dog bites accounted for 49% of the *animal related* injuries.
- Sixty-eight percent of all *poisonings* were drug related.
- Two 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. Twelve to fourteen year old children suffered more *abuse/assault/neglect* injuries than ages zero to eleven combined.
- The top two (of twelve) most occurring injuries, *falls* and *struck by/striking objects/sports*, accounted for over 55% 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:
 - 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.

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
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