

Childhood Injury Report

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

**7th Annual Report
January 1, 2008 - December 31, 2008**



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.

Table of Contents

TOPIC	PAGE #
Committee & Report Information	3
Value to the Community	4
Childhood Injury Trends	4
Demographic Analysis	5-7
Zip Code Information	8-11
E-codes	12
Top 12 Leading Causes of Injury	13-25
Falls	14
Struck By/Striking Object	15
Cutting/Knives	16
Overexertion/Strenuous Movement	17
Motor Vehicle	18
Wheeled Sports	19
Animal Related	20
Generic Accident	21
Poisoning	22
Foreign Body (not choking)	23
Abuse/Assault/Neglect	24
Burns (not fire)	25
Other Types of Injury	26
Leading Cause of Injury by Age	27
Leading Cause of Injury by Zip Code	28-30
Significant Findings	31
Recommendations	32
Current Safe Kids Injury Prevention Programs	33

Committee & Report Information

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The Safe Kids Data and Research Committee includes: child safety advocates, health educators, trauma coordinators, public health professionals, universities and hospital representatives. The Stark County Health Department is the lead agency for Safe Kids Stark County. This department has an injury prevention grant and a child and family health services grant, which provides funding 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, Alliance Community Hospital, Aultman Hospital** and **Mercy Medical Center** from January 1, 2008 through December 31, 2008. 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, gender, zip code where the child lives 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

Safe Kids Stark County, founded in 1992, focuses on unintentional injury and death prevention for children 14 and under.

In 2002, the Stark County Health Department began researching a method to collect county wide data regarding childhood injuries. Prior to the work of this committee, no system existed for collecting all of the hospital information for a county-wide analysis. 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 annual reports for 2002-2007. 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 2003-2007 reports. Data collection will continue and an annual report will be published each year for the previous year's data. A three year Trend Report was published in 2007 and additional Trend Reports will continue to be produced periodically.

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

For this report, injury data was collected from January 1, 2008 through December 31, 2008. During that time, 7,467 children ages 14 and under were treated in the five Stark County Emergency Departments (ED) for injuries.

Childhood Injuries

According to Safe Kids Worldwide, 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.

According to Safe Kids USA, injuries are the second leading cause of hospitalization and the leading cause of emergency department visits among children fourteen and under.

However, due to the work of nearly 650 Safe Kids Coalitions, Safe Kids USA reports the accidental death rate has dropped 43% from 1987 to 2004. They also report that in the last 20 years, the accidental injury rate has dropped over 45%.

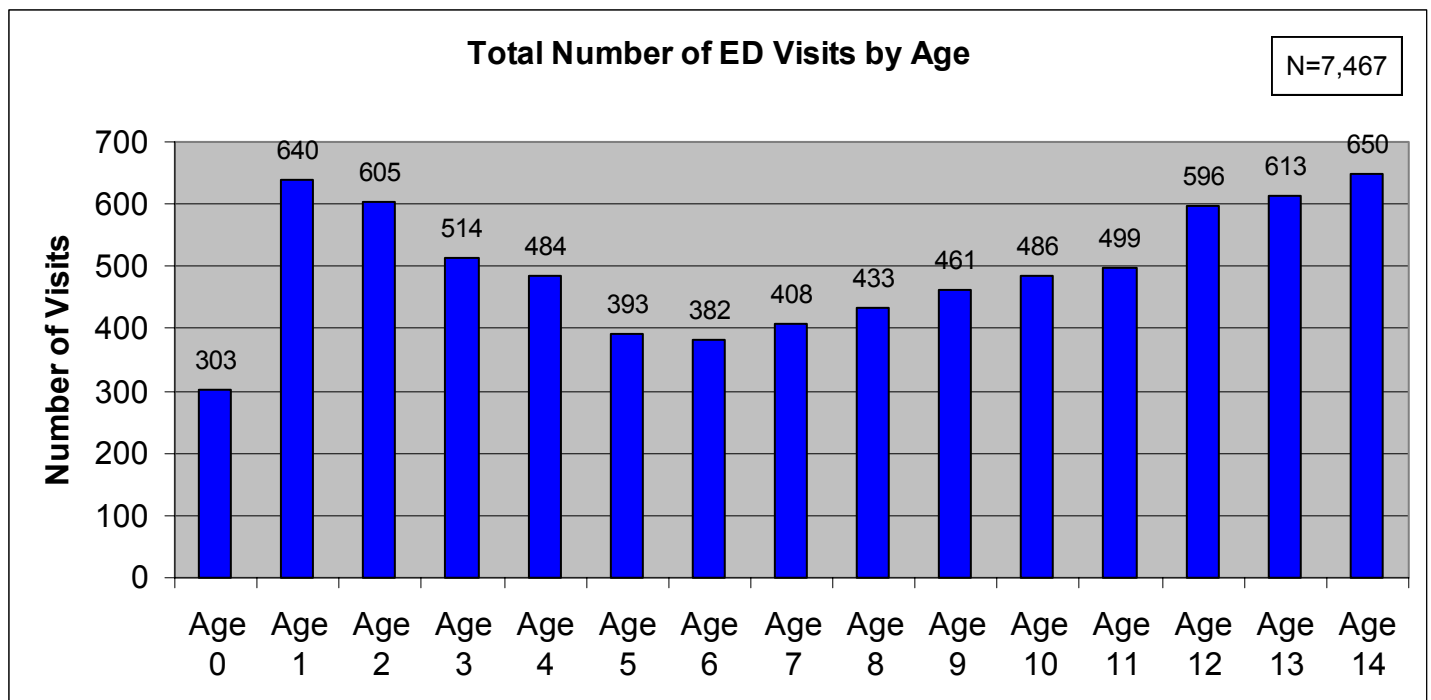
Demographic Analysis

- Fourteen year old children were most often seen in the emergency departments, followed by one and thirteen year olds, respectively. ****Based on actual number of injuries—see page 6, column 2****
- One year old children have the highest injury rate, followed by two and fourteen year olds, respectively. ****Based on population—see page 6, column 5****
- June was the most prevalent month for emergency department visits, followed by September and May, respectively.
- More male patients were treated for injuries than female patients.
- The 44601 zip code (Alliance City, Lexington Twp, Marlboro Twp, Washington Twp) had the highest number of children treated for injuries. ****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. ****Based on population—see page 8****

Overall Demographic Information

TOTAL NUMBER OF CHILDREN TREATED

7,467



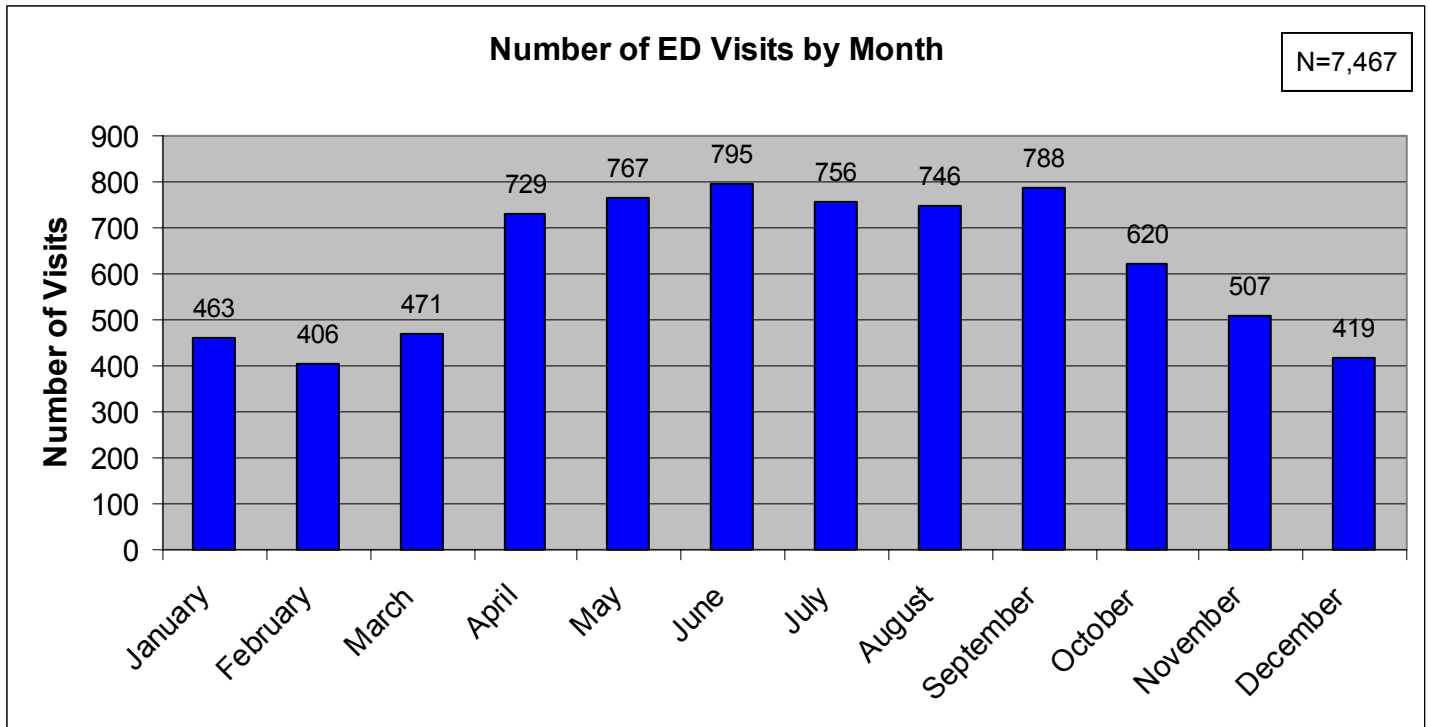
Overall Demographic Information

Age	# of Injuries	% of Total Injuries	Population	Rate of Injury by Population
0	303	4.1%	4,769	63.5 per 1,000
1	640	8.6%	4,731	135.3 per 1,000
2	605	8.1%	4,826	125.4 per 1,000
3	514	6.9%	4,732	108.6 per 1,000
4	484	6.5%	5,109	94.7 per 1,000
5	393	5.3%	5,015	78.4 per 1,000
6	382	5.1%	5,048	75.7 per 1,000
7	408	5.5%	5,303	76.9 per 1,000
8	433	5.8%	5,406	80.1 per 1,000
9	461	6.2%	5,615	82.1 per 1,000
10	486	6.5%	5,629	86.3 per 1,000
11	499	6.7%	5,433	91.8 per 1,000
12	596	8.0%	5,326	111.9 per 1,000
13	613	8.2%	5,291	115.9 per 1,000
14	650	8.7%	5,517	117.8 per 1,000

Fourteen year old children suffered the most injuries (650), accounting for 8.7% of all ED visits. One year old children also had the highest rate of injury, at 135.3 per 1,000

Overall Demographic Information

TOTAL NUMBER OF CHILDREN TREATED: 7,467



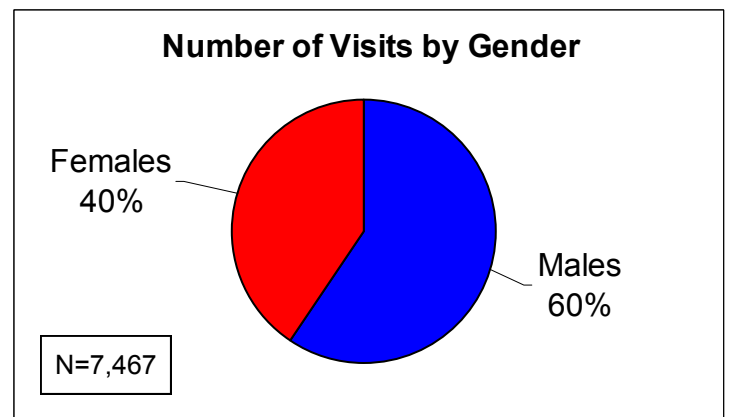
Number of Visits Per Month

Month	#	%
January	463	6.2%
February	406	5.4%
March	471	6.3%
April	729	9.8%
May	767	10.3%
June	795	10.6%

Month	#	%
July	756	10.1%
August	746	10.0%
September	788	10.6%
October	620	8.3%
November	507	6.8%
December	419	5.6%

Number of Visits by Gender

Gender	#	%
Males	4,443	59.5%
Females	3,024	40.5%



Zip Code Information

Zip Code	# of Injuries	Popula- tion (Ages 0-14)	Injury Rate per 1,000 people		Zip Code	# of Injuries	Population (Ages 0-14)	Injury Rate 1,000 people
44601	1,295	7,461	173.6		44685	47	5,330	8.8
44608	43	534	80.5		44688	60	780	76.9
44613	37	508	72.8		44689	9	215	41.9
44614	108	2,611	41.4		44701	8	NA	NA
44626	60	595	100.8		44702	14	108	129.6
44630	1	NA	NA		44703	268	2,571	104.2
44632	43	2,161	19.9		44704	155	1,310	118.3
44641	326	4,157	78.4		44705	607	5,241	115.8
44643	48	663	72.4		44706	512	3,997	121.8
44646	997	9,438	105.6		44707	317	2,670	118.7
44647	383	3,342	114.6		44708	471	4,647	101.4
44648	3	NA	NA		44709	216	3,165	68.2
44650	2	NA	NA		44710	293	1,973	148.5
44652	1	NA	NA		44714	151	1,643	91.9
44657	203	2,122	95.7		44718	80	2,283	35.0
44662	174	1,845	94.3		44720	209	8,472	28.0
44666	47	635	74.0		44721	115	2,595	44.3
44669	31	313	99.0		44730	123	1,210	101.7
44670	8	29	275.9		44735	2	NA	NA
		# of Injuries			Population (Ages 0-14)	Injury Rate per 1,000 people		
TOTAL		7,467			83,624	89.3		

**NA: These zip codes represent PO Box mailing addresses. No population data is available for these zip codes.

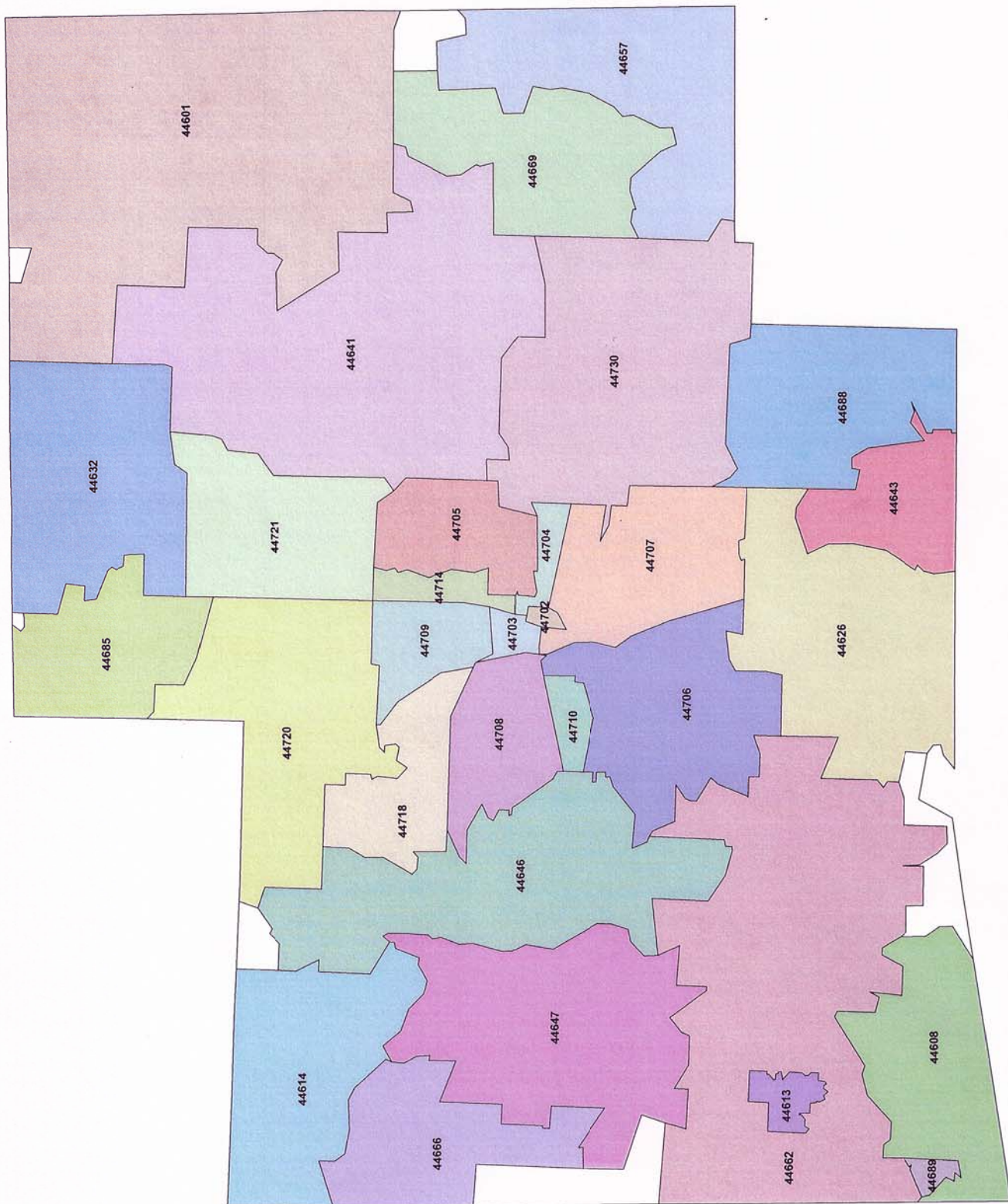
Zip Code Information
Leading Zip Codes for Injuries

By Injury Rate

44670	Minerva, Paris Twp, Robertsville
44601	Alliance City, Lexington Twp, Marlboro Twp, Washington Twp
44710	Canton City, Canton Twp, Perry Twp
44702	Canton City
44706	Canton City, Canton Twp, East Sparta, Perry Twp
44707	Canton City, Canton Twp, North Industry, Waco
44704	Canton City, Canton Twp
44705	Canton City, Plain Twp
44647	Lawrence Twp, Massillon City, Tuscarawas Twp
44646	Jackson Twp, Lawrence Twp, Massillon City, Perry Twp, Tuscarawas 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
44641	Louisville City, Hartville, Nimishillen Twp, Osnaburg Twp, Plain Twp
44707	Canton City, Canton Twp, North Industry, Waco
44710	Canton City, Canton Twp, Perry Twp
44703	Canton City



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 departments. 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.

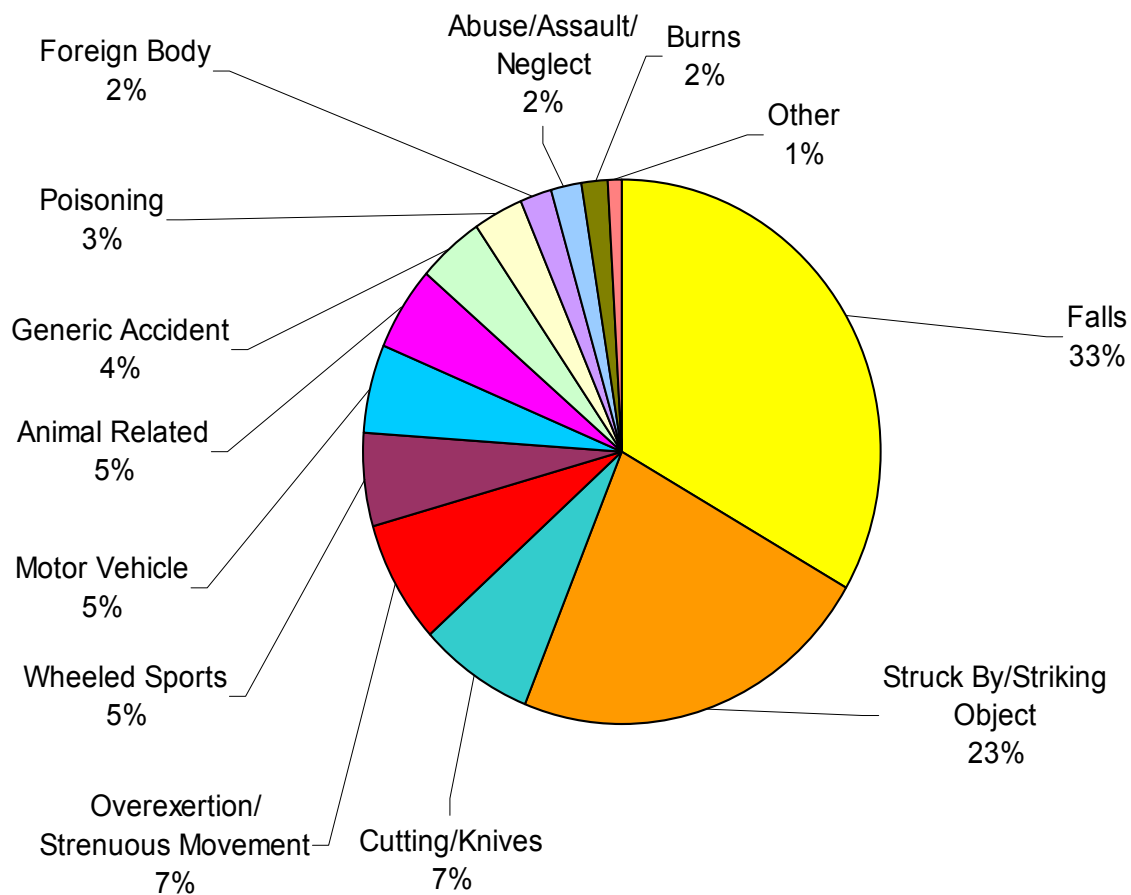
A	Motor Vehicle	L	Choking/Suffocation
B	Wheeled Sports	M	Foreign Body (Not Choking)
C	Water Related	N	Struck By/Striking Object/Sports
D	Generic Accident	O	Machinery
E	Poisoning	P	Cutting/Knives
F	Medical Procedures	Q	Fire Arms
G	Falls	R	Suicide
H	Fire Related	S	Burns (Not Fire Related)
I	Weather	T	Human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

Top 12 Leading Causes of Injury

There were 7,791 children treated between January 1, 2007 and December 31, 2007.

Injury Type	#	%
Falls	2,484	33.3%
Struck By/Striking Object/Sports	1,699	22.8%
Cutting/Knives	555	7.4%
Overexertion/Strenuous Movements	527	7.1%
Motor Vehicle	408	5.5%
Wheeled Sports	408	5.5%
Animal Related	366	4.9%
Generic Accident	320	4.3%
Poisoning	219	2.9%
Foreign Body	155	2.1%
Abuse/Assault/Neglect	129	1.7%
Burns	128	1.7%
Other (not in top 12)	69	0.9%

Leading Causes of Injury/ED Visits



Falls

Falls were the leading cause of injury for children. There were 2,484 children treated for a fall related injury, accounting for 33.3% of the injuries during this report time frame.

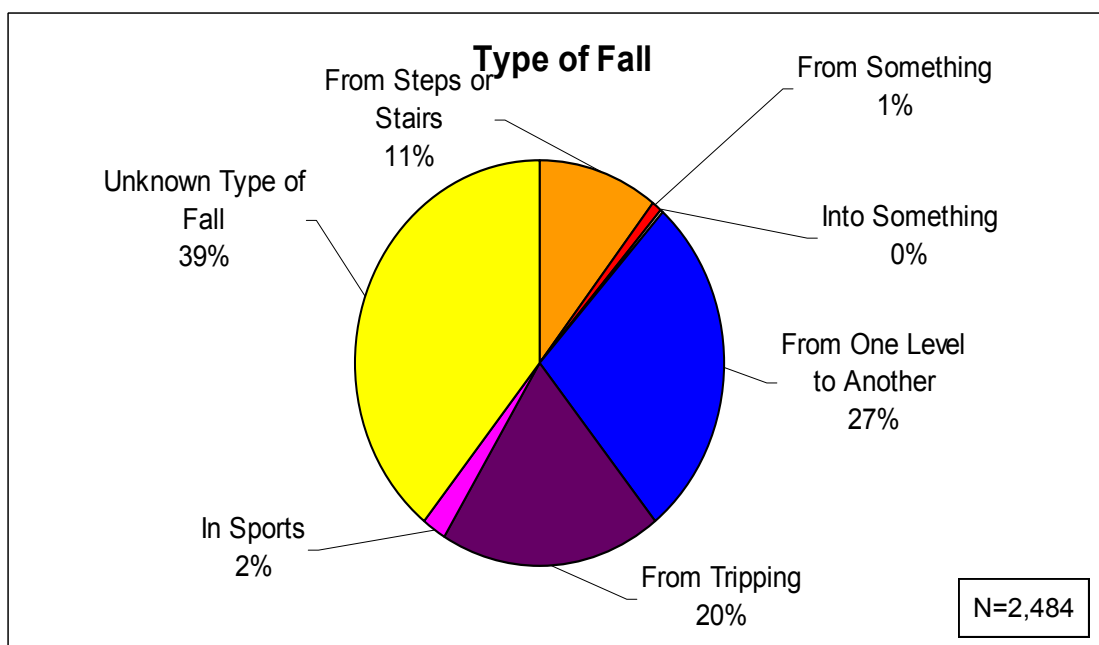
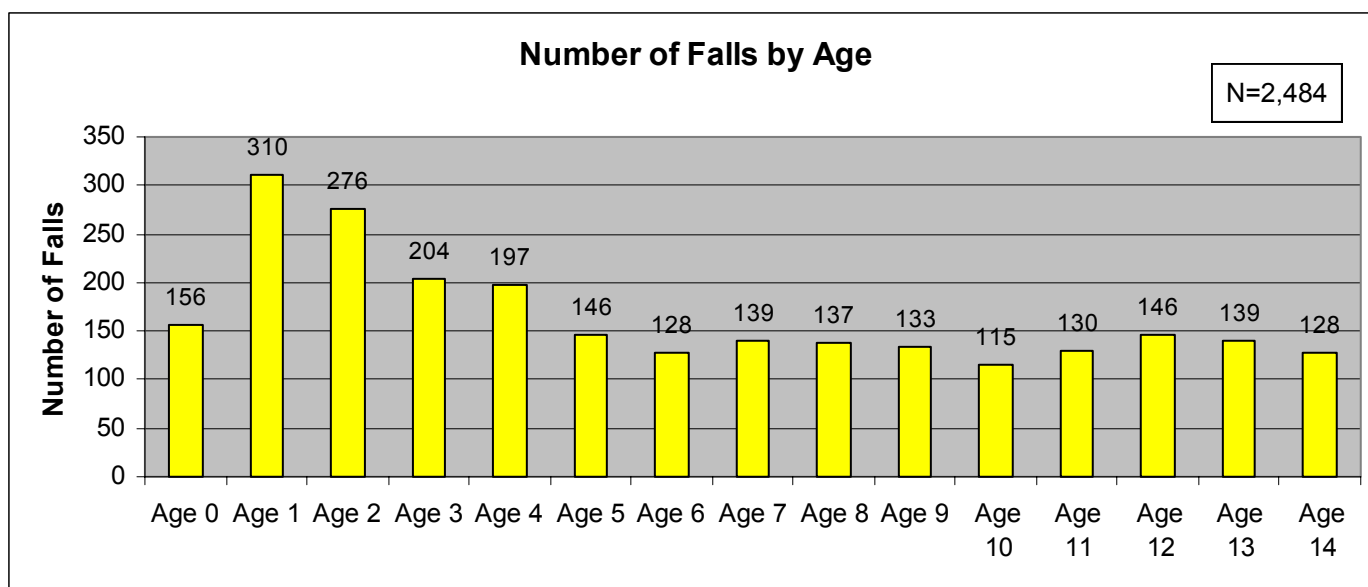
Number of Falls By Gender

Gender	#	%
Male	1,414	56.9%
Female	1,070	43.1%

Leading Zip Codes

Zip Code	#	% of all falls
44601	394	15.1%
44646	305	12.3%
44705	198	8.0%
44706	173	7.0%
44710	171	6.9%

April (256) is the most prevalent month for these injuries, followed by September (252) and May (239).



Struck By / Striking Object / Sports

There were 1,699 children treated for an injury caused by being struck by or striking an object. This was the second leading cause of injury, accounting for 22.8% of the injuries during this report time frame.

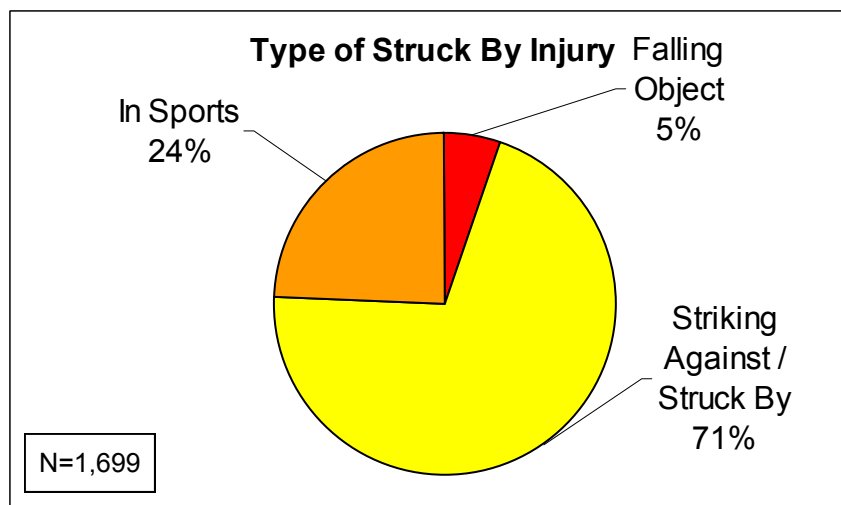
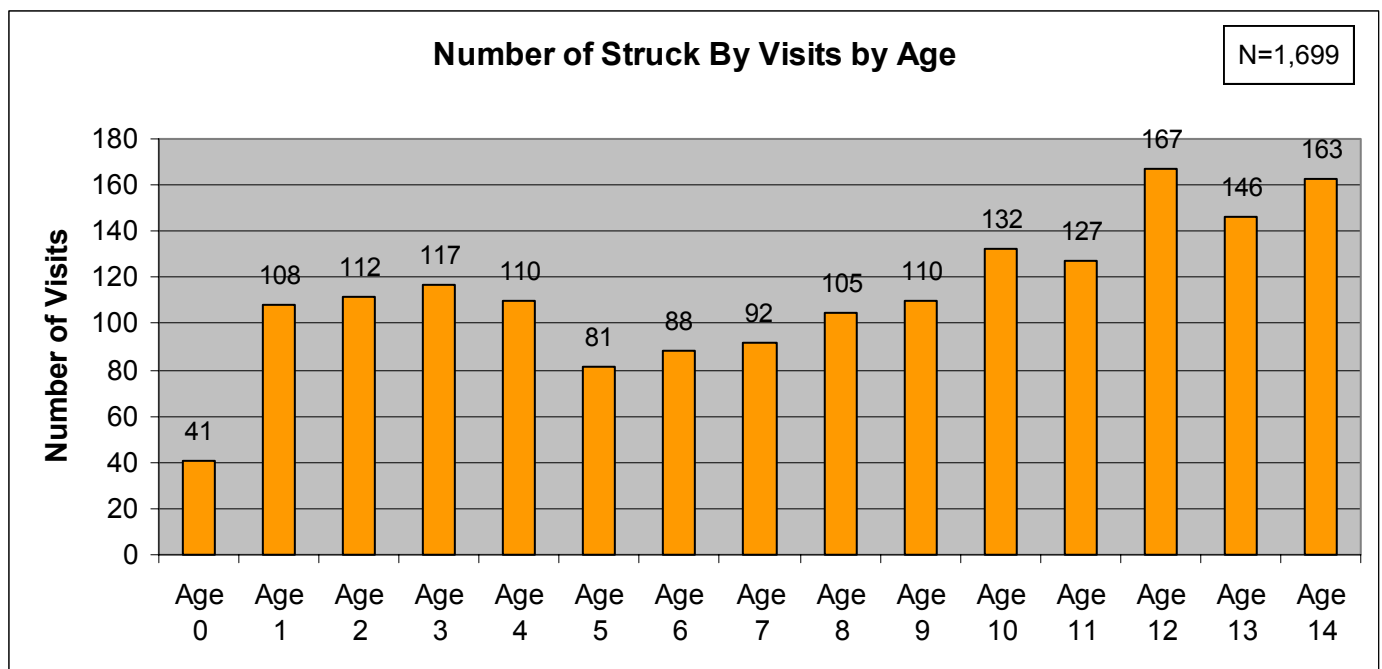
Number of Struck By/Striking by Gender

Gender	#	%
Male	1,108	65.2%
Female	591	34.8%

Leading Zip Codes

Zip	#	% of all struck by
44601	272	16.0%
44646	256	15.1%
44706	136	8.0%
44705	123	7.2%
44708	116	6.8%

June (189) is the most prevalent month for these injuries, followed by September (185) and August (182).



Cutting/Knives

There were 555 children treated for an injury caused by cutting instruments. This was the third leading cause of injury, accounting for 7.4% of the injuries during this report time frame.

Number of Visits By Gender

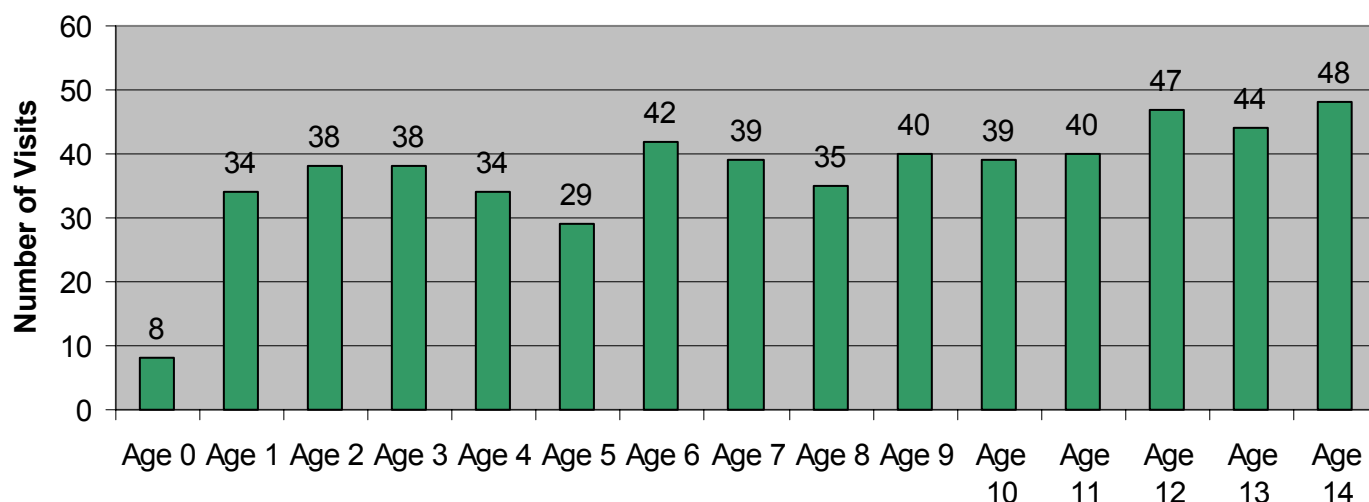
Gender	#	%
Male	367	66.1%
Female	188	33.9%

Leading Zip Codes

Zip	#	% of all cutting/knives
44601	109	19.6%
44646	62	11.2%
44706	43	7.7%
44705	41	7.4%
44708	38	6.8%

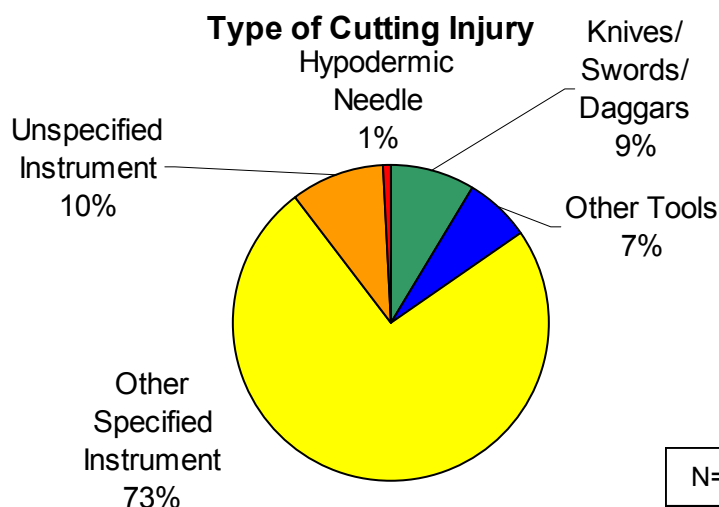
July (92) is the most prevalent month for these injuries, followed by June (64) and August (57).

Number of Cutting Injuries by Age



Other specified instruments include non-specific items with no actual code to identify it (such as cutting your foot on a curtain rod).

Unspecified instruments include a cut with no known implement (such as a child running through the yard cutting their foot).



N=555

Overexertion/Strenuous Movements

There were 527 children treated for an Overexertion/Strenuous Movement related injury. This was the forth leading cause of injury, accounting for 7.1% of the injuries during this report time frame.

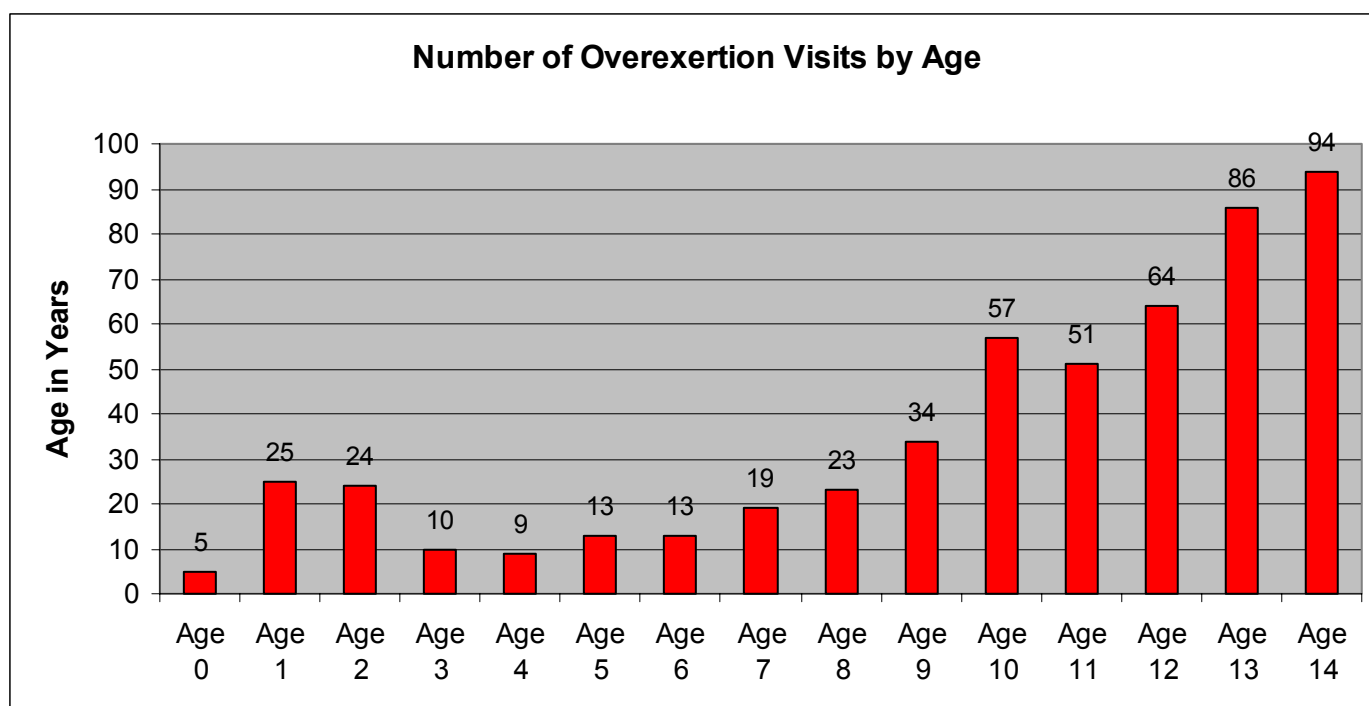
Number of Visits By Gender

Gender	#	%
Male	259	49.1%
Female	268	50.9%

Leading Zip Codes

Zip	#	% of all Overexertion
44601	73	13.9%
44646	73	13.9%
44705	43	8.2%
44708	40	7.6%
44647	29	5.5%

September (64) was the most prevalent month for these injuries, followed by May (58) and April (57).



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 408 children treated for motor vehicle related injuries. This was the fifth leading cause of injury, accounting for 5.5% of the injuries during this report time frame.

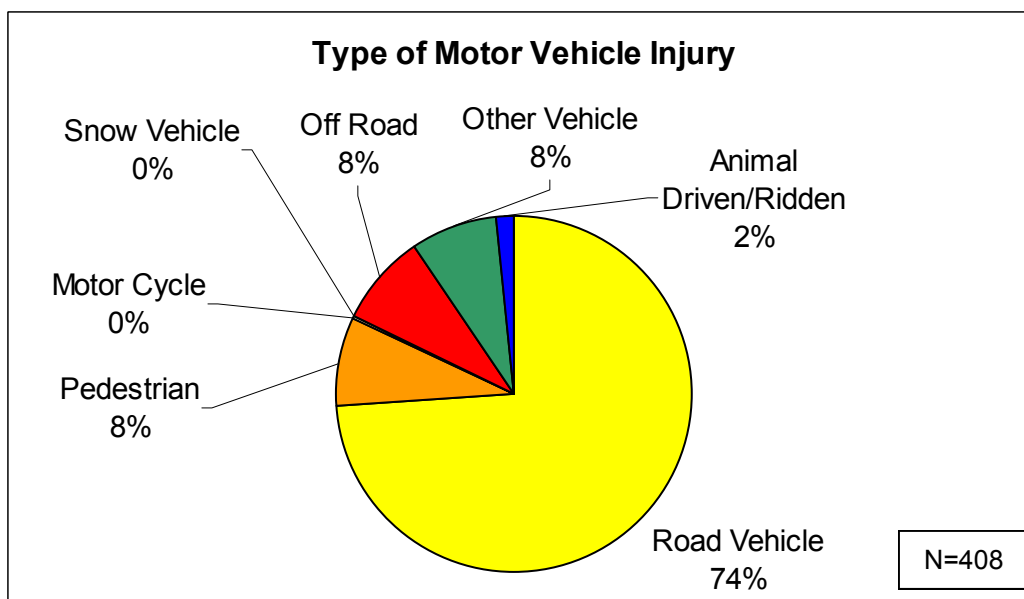
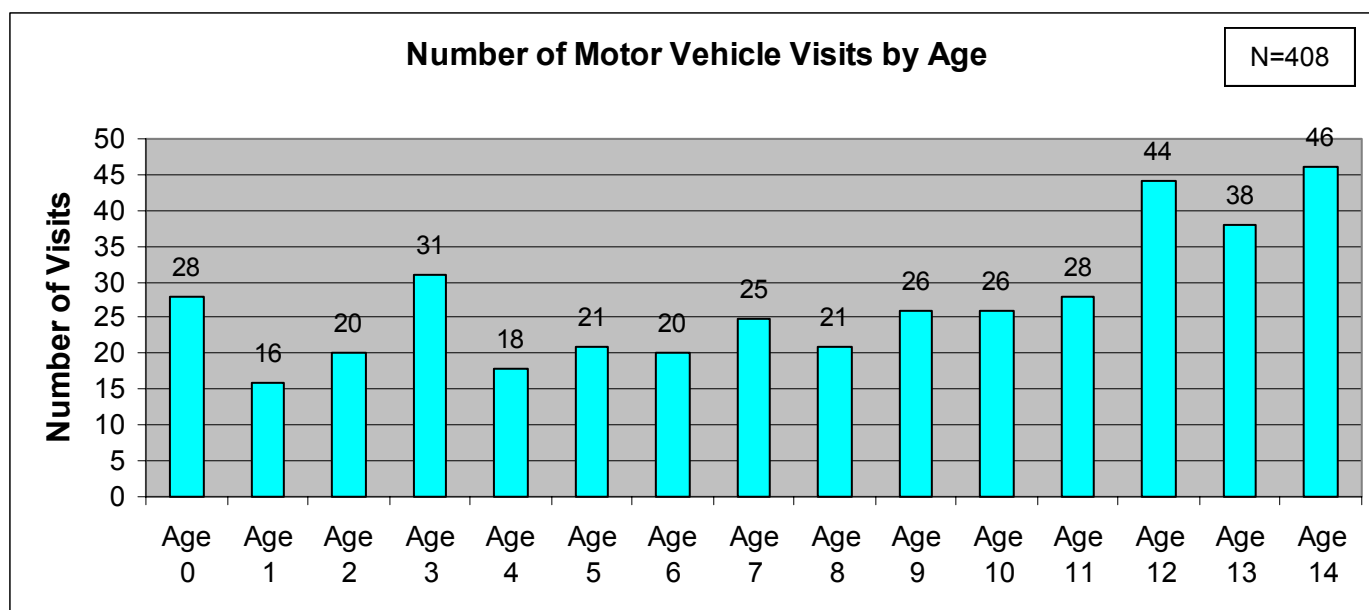
Number of Visits by Gender

Gender	#	%
Male	215	52.7%
Female	193	47.3%

Leading Zip Codes

Zip	#	% of all motor vehicle
44705	56	13.7%
44601	49	12.0%
44646	42	10.3%
44706	27	6.6%
44647	26	6.4%

June (49) is the most prevalent month for these injuries, followed by May (47) and August (45).



Wheeled Sports

There were 408 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.

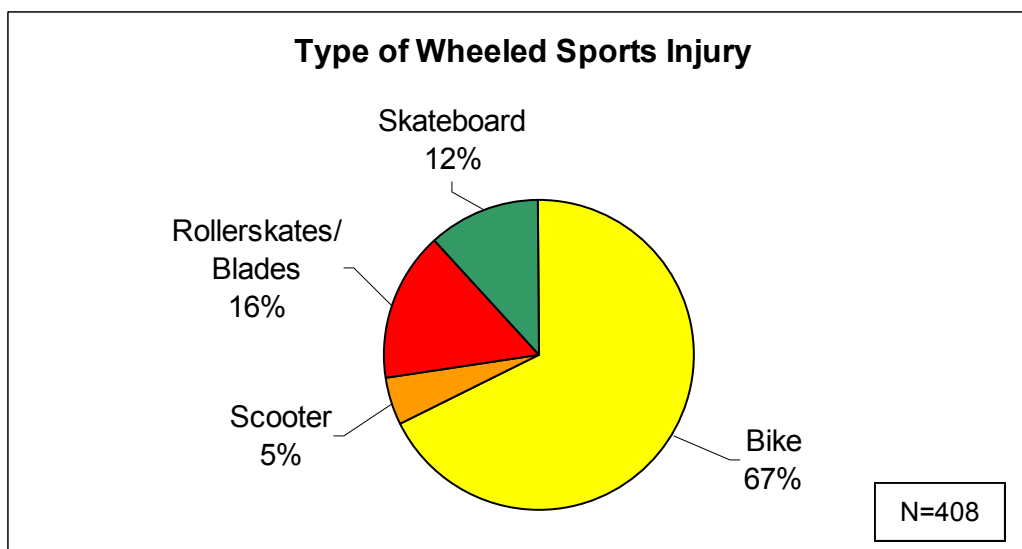
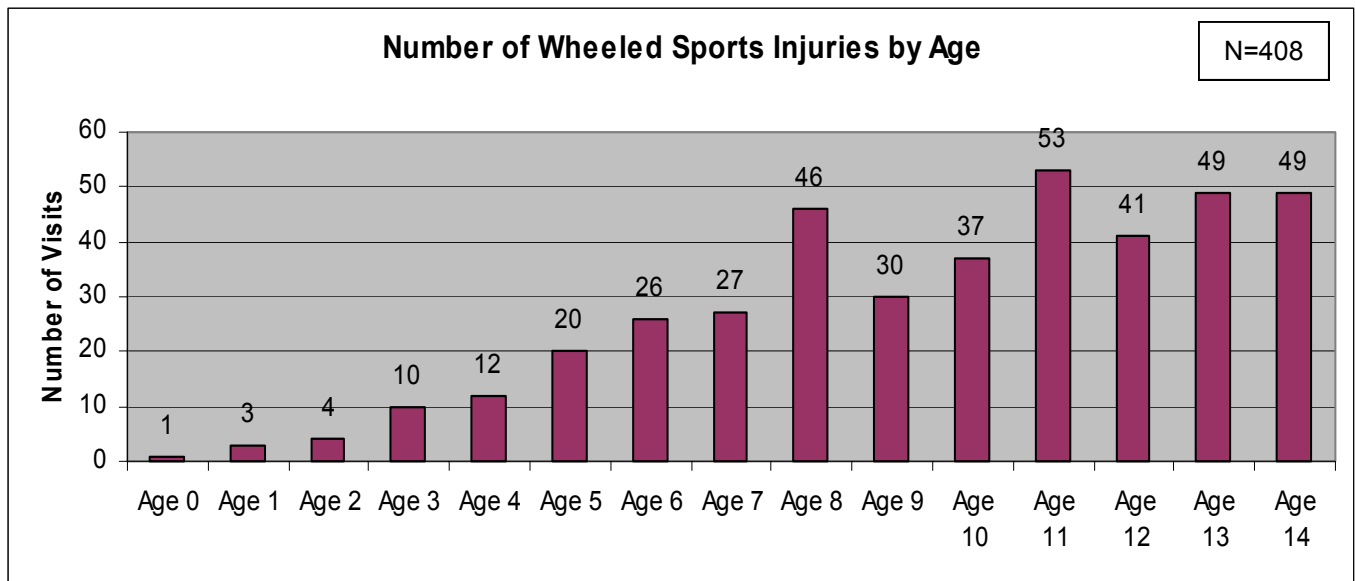
Number of Visits by Gender

Gender	#	%
Male	268	65.7%
Female	140	34.3%

Leading Zip Codes

Zip	#	% of all Wheeled Sports
44601	65	15.9%
44646	59	14.5%
44705	42	10.3%
44706	26	6.4%
44710	20	4.9%

May (67) was the most prevalent month for these injuries, followed by June (60) and September (53).



Animal Related

There were 366 children treated for animal related injuries. This was the seventh leading cause of injury, accounting for 4.9% of the injuries during this report time frame.

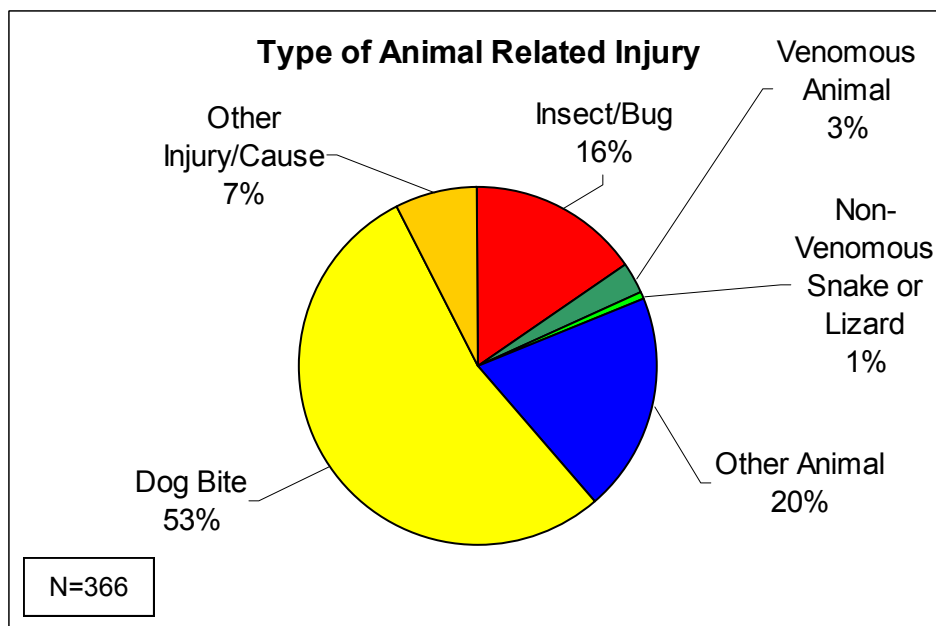
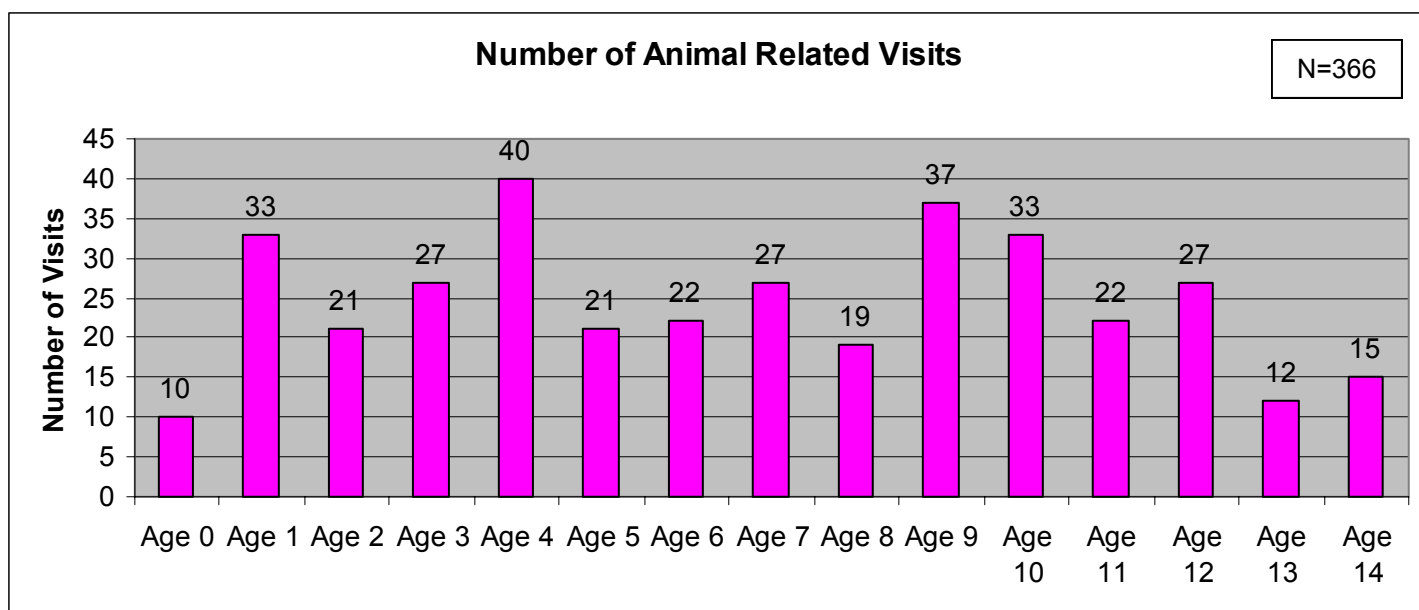
Number of Visits by Gender

Gender	#	%
Male	215	58.7%
Female	151	41.3%

Leading Zip Codes

Zip	#	% of all animal related
44601	75	20.5%
44646	57	15.6%
44705	31	8.5%
44706	24	6.6%
44710	19	5.2%

August (64) was the most prevalent month for these injuries, followed by July (61) and June (55).



Generic Accident

There were 320 children treated for generic accidents. This was the eighth leading cause of injury, accounting for 4.3% of the injuries during this report time frame.

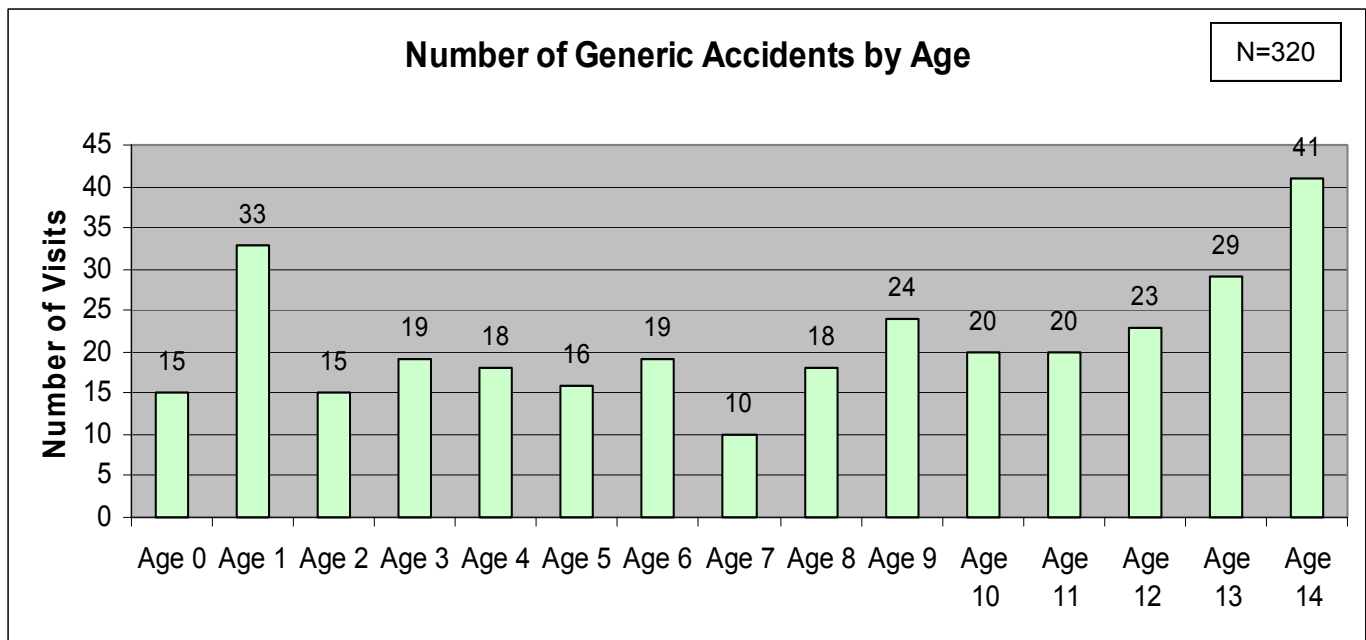
Number of Visits By Gender

Gender	#	%
Male	175	54.7%
Female	145	45.3%

Leading Zip Codes

Zip	#	% of all Generic Accidents
44601	104	32.5%
44646	41	12.8%
44706	23	7.2%
44641	16	5.0%
44657	16	5.0%

September (46) is the most prevalent month for these injuries, followed by May (36) and July (31).



A **Generic Accident** includes any injury 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.

Poisoning

There were 219 children treated for poisoning injuries. This was the ninth leading cause of injury, accounting for 2.9% of the injuries during this report time frame.

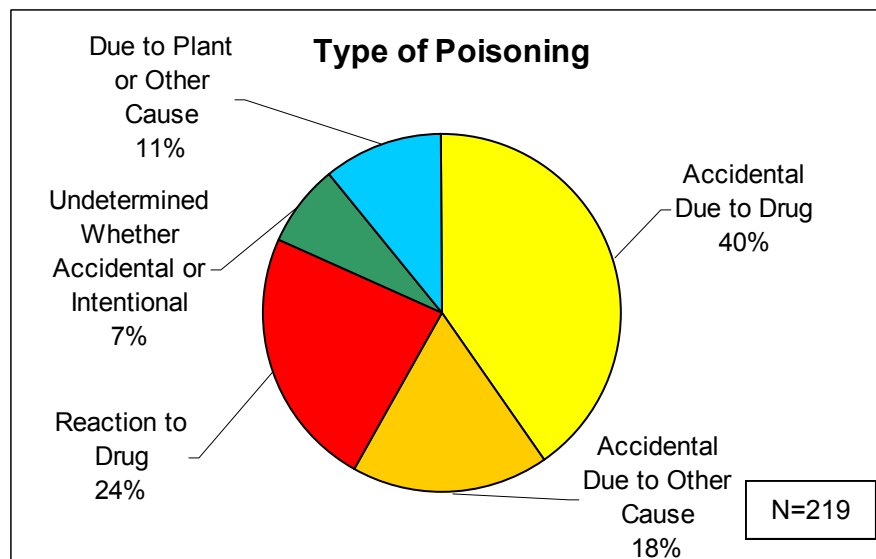
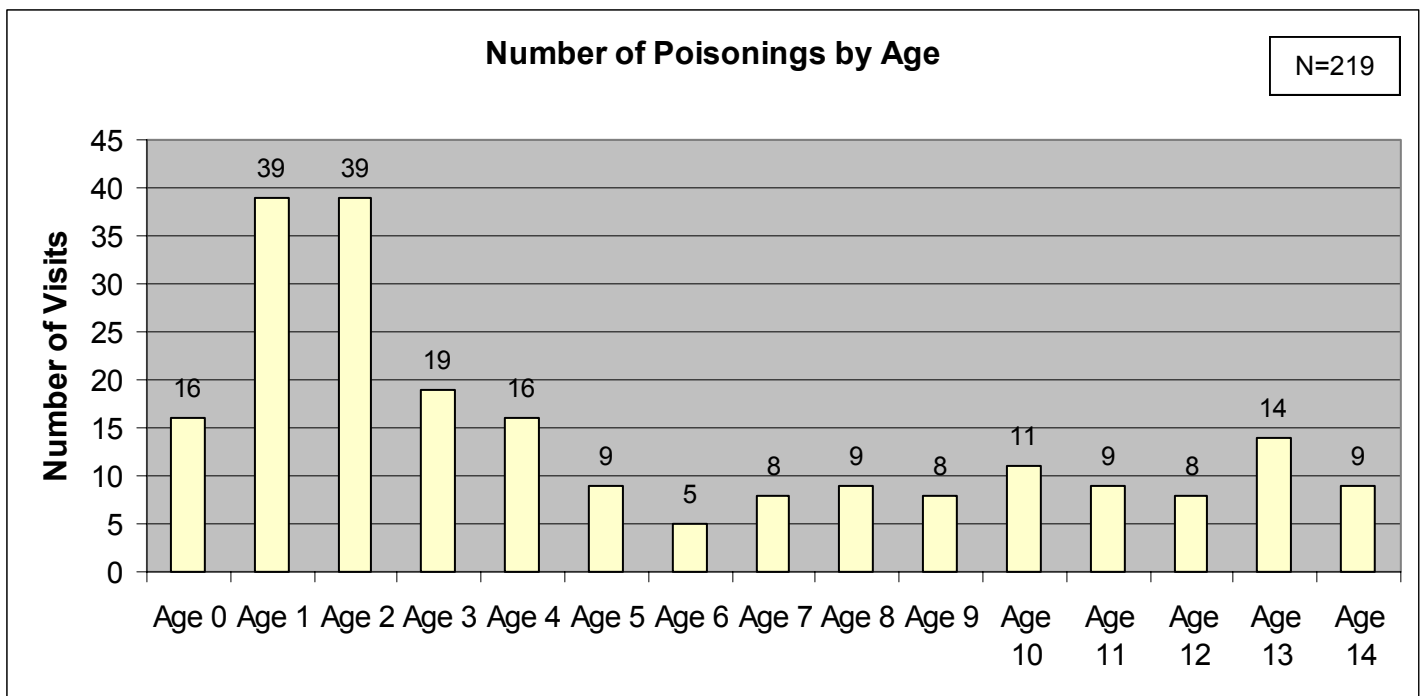
Number of Visits By Gender

Gender	#	%
Male	129	58.9%
Female	90	41.1%

Leading Zip Codes

Zip	#	% of all poisonings
44601	71	32.4%
44646	29	13.2%
44705	16	7.3%
44647	12	5.5%
44657	12	5.5%

July (35) is the most prevalent month for these injuries, followed by January (22) and June (22).



Foreign Body

There were 155 children treated for foreign body (not choking) related injuries. This was the tenth leading cause of injury, accounting for 2.1% of the injuries during this report time frame.

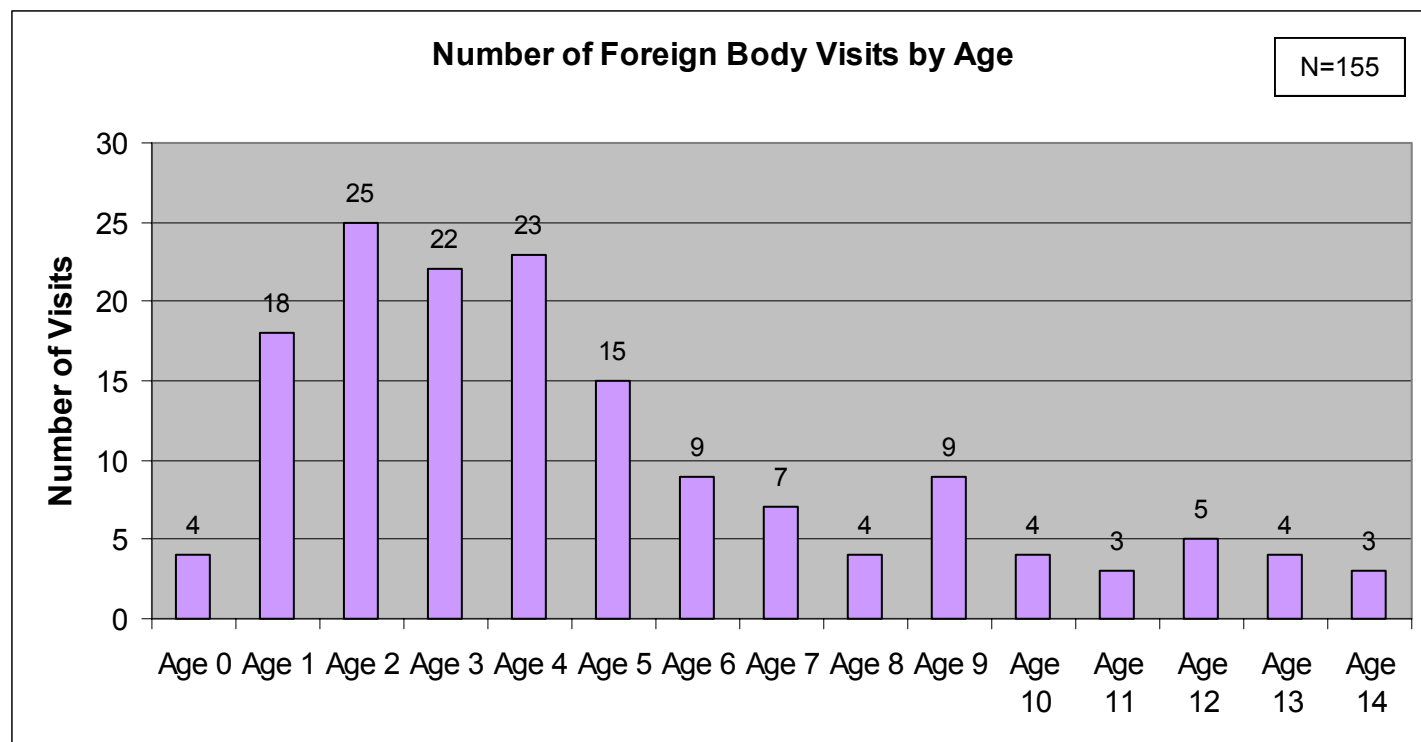
Number of Visits by Gender

Gender	#	%
Male	100	64.5%
Female	55	35.5%

Leading Zip Codes

Zip	#	% of all Foreign Body
44646	32	20.6%
44601	23	14.8%
44647	12	7.7%
44705	11	7.1%
44703	10	6.5%

May (19) was the most prevalent month for these injuries, followed by January (17), April (17) and September (17).



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 2008 reporting year.

Abuse, Assault and Neglect

There were 129 children treated for abuse, assault and neglect related injuries. This was the eleventh leading cause of injury, accounting for 1.7% of the injuries during this report time frame.

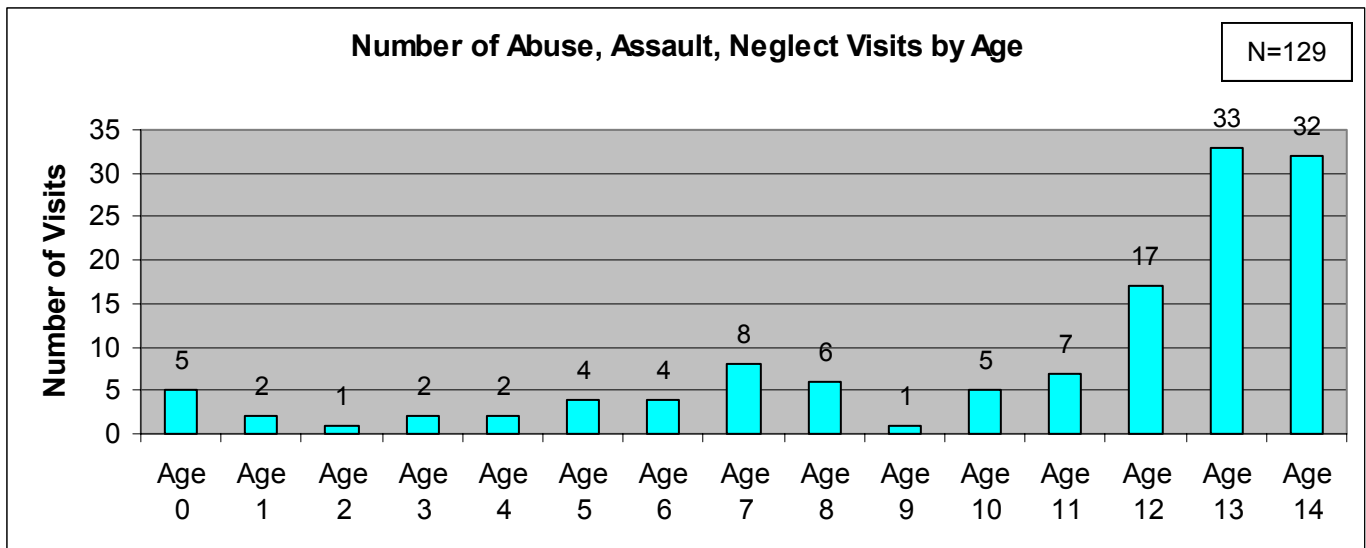
Number of Visits By Gender

Gender	#	%
Male	80	62.0%
Female	34	38.0%

Leading Zip Codes

Zip	#	% of all Abuse/Assault/Neglect
44601	25	19.4%
44705	16	12.4%
44646	13	10.1%
44714	11	8.5%
44707	9	7.0%
44708	9	7.0%

September (19) is the most prevalent month for these injuries, followed by July (16) and April (15).



Burns (not fire related)

There were 128 children treated for burn related injuries. This was the twelfth leading cause of injury, accounting for 1.7% of the injuries during this report time frame.

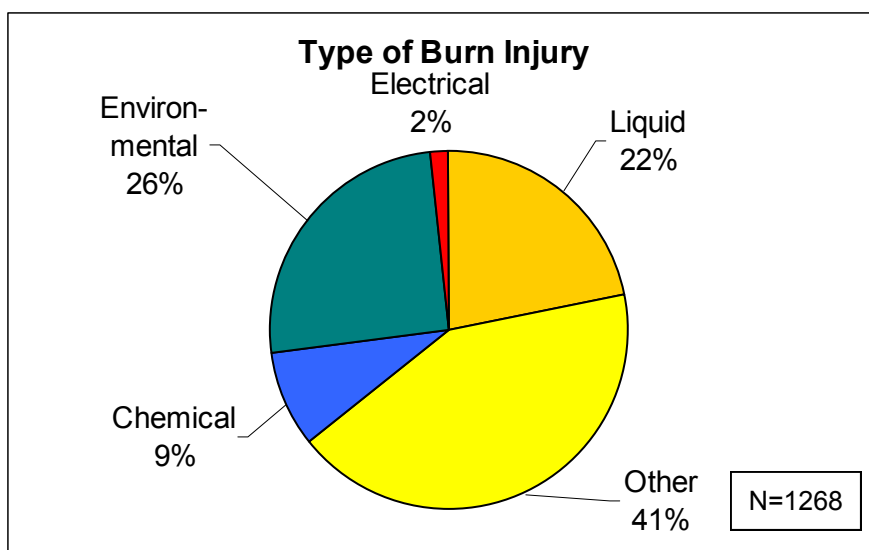
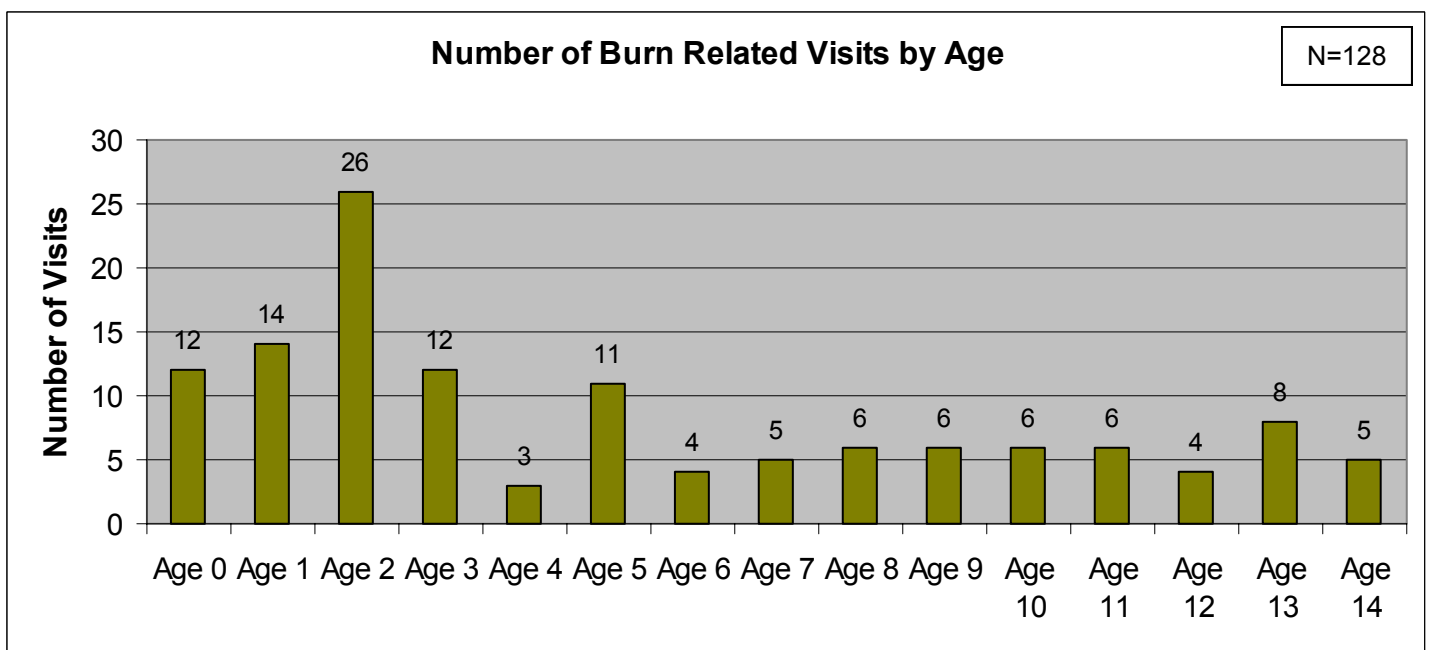
Number of Visits By Gender

Gender	#	%
Male	75	58.6%
Female	53	41.4%

Leading Zip Codes

Zip	#	% of all Burns
44601	31	24.2%
44646	18	14.1%
44705	12	9.4%
44708	8	6.3%
44647	6	4.7%

June (28) is the most prevalent month for these injuries, followed by April (16) and July 13).



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 2008 reporting year.

Other Types of Injury

While these injuries were not in the top 12 nor analyzed in the report, it is important to note them in this report because they are injuries that are occurring in Stark County.

Type of Injury	Number of Injuries
Fire Related	22
Attempted Suicide	17
Fire Arms	10
Water Related	6
Machinery	6
Medical Procedures	4
Weather Related	2
Choking/Suffocation	3

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	303	Falls 156 or 51.5%	Struck By/Striking/Sports 41 pr 13.5%	Motor Vehicle 28 or 9.2%
1	640	Falls 310 or 48.4%	Struck By/Striking/Sports 108 or 16.9%	Poisoning 39 or 6.4%
2	605	Falls 276 or 45.6%	Struck By/Striking/Sports 112 or 18.5%	Poisoning 39 or 6.4%
3	514	Falls 204 or 39.7%	Struck By/Striking/Sports 117 or 22.8%	Cutting/Knives 38 or 7.4%
4	484	Falls 197 or 40.7%	Struck By/Striking/Sports 110 or 22.7%	Animal Related 40 or 8.3%
5	393	Falls 146 or 37.2%	Struck By/Striking/Sports 81 or 20.6%	Cutting/Knives 29 or 7.4%
6	382	Falls 128 or 33.5%	Struck By/Striking/Sports 88 or 23.0%	Cutting/Knives 42 or 11.0%
7	408	Falls 139 or 34.1%	Struck By/Striking/Sports 92 or 22.5%	Cutting/Knives 39 or 9.6%
8	433	Falls 137 or 31.6%	Struck By/Striking/Sports 105 or 24.2%	Wheeled Sports 46 or 10.6%
9	461	Falls 133 or 28.9%	Struck By/Striking/Sports 110 or 23.9%	Cutting/Knives 40 or 8.7%
10	486	Struck By/Striking/Sports 132 or 27.2%	Falls 115 or 23.7%	Overexertion 57 or 11.7%
11	499	Falls 130 or 26.1%	Struck By/Striking/Sports 127 or 25.5%	Wheeled Sports 53 or 8.6%
12	596	Struck By/Striking/Sports 167 or 28.5%	Falls 146 or 24.5%	Overexertion 64 or 10.7%
13	613	Struck By/Striking/Sports 146 or 23.8%	Falls 139 or 22.7%	Overexertion 86 or 14.0%
14	650	Struck By/Striking/Sports 163 or 25.1%	Falls 128 or 19.7%	Overexertion 94 or 14.5%

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	1,295	Falls 394 or 30.4%	Struck By/Striking/Sports 272 or 21.0%	Cutting/Knives 109 or 8.4%
44608	43	Falls 16 or 37.2%	Struck By/Striking/Sports 8 or 18.6%	Animal Related 5 or 11.6%
44613	37	Falls 10 or 27.0%	Struck By/Striking/Sports 8 or 21.6%	Wheeled Sports 4 or 10.8%
44614	108	Falls and Struck By/Striking/Sports 35 or 32.4%	Wheeled Sports and Cutting/Knives 8 or 7.4%	Poisoning 5 or 4.6%
44626	60	Struck By/Striking/Sports 20 or 33.3%	Falls 19 or 31.7%	Motor Vehicle 5 or 8.3%
44630	1	Falls 1 or 100.0%	NA	NA
44632	43	Falls 13 or 30.2%	Struck By/Striking/Sports 9 or 20.9%	Wheeled Sports and Overexertion 6 or 14.0%
44641	326	Falls 118 or 36.2%	Struck By/Striking/Sports 70 or 21.5%	Wheeled Sports 32 or 9.8%
44643	48	Falls 17 or 35.4%	Struck By/Striking/Sports 11 or 22.9%	Motor Vehicle 5 or 10.4%
44646	997	Falls 305 or 30.6%	Struck By/Striking/Sports 256 or 25.7%	Overexertion 73 or 7.3%
44647	383	Falls 119 or 31.2%	Struck By/Striking/Sports 88 or 23.0%	Overexertion 29 or 7.6%
44648	3	Struck By/Striking/Sports 2 or 66.7%	Falls 1 or 33.3%	NA
44650	2	Falls and Struck By/Striking/Sports 1 or 50.0%	NA	NA

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
44652	1	Falls 1 or 100.0%	NA	NA
44657	203	Falls 62 or 30.5%	Struck By/Striking/Sports 46 or 22.7%	Cutting/Knives 22 or 10.8%
44662	174	Falls 57 or 32.8%	Struck By/Striking/Sports 39 or 22.4%	Cutting/Knives 15 or 8.6%
44666	47	Struck By/Striking/Sports 12 or 25.5%	Falls 11 or 23.4%	Motor Vehicle and Animal Related 6 or 12.8%
44669	31	Falls 10 or 32.3%	Struck By/Striking/Sports and Cutting/Knives 4 or 12.9%	Motor Vehicle, Animal Related and Foreign Body 3 or 9.7%
44670	8	Falls 3 or 37.5%	Struck By/Striking/Sports 2 or 25.0%	Wheeled Sports, Poisoning and Fire Related 1 or 12.5%
44685	47	Falls 19 or 40.4%	Struck By/Striking/Sports 12 or 25.5%	Motor Vehicle 5 or 10.6%
44688	60	Falls 26 or 43.4%	Struck By/Striking/Sports 14 or 23.3%	Cutting/Knives 5 or 8.3%
44689	9	Falls 5 or 55.6%	Foreign Body 2 or 22.2%	Animal Related and Overexertion 1 or 11.1%
44701	8	Falls 5 or 62.5%	Motor Vehicle, Animal Related and Foreign Body 1 or 12.5%	NA
44702	14	Falls 4 or 28.6%	Cutting/Knives 3 or 21.4%	Struck By/Striking/Sports 2 or 14.3%
44703	268	Falls 115 or 42.9%	Struck By/Striking/Sports 33 or 21.3%	Cutting/Knives 13 or 5.1%

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
44704	155	Falls 50 or 32.3%	Struck By/Striking/Sports 33 or 21.3%	Cutting/Knives 13 or 5.1%
44705	607	Falls 198 or 32.6%	Struck By/Striking/Sports 123 or 20.3%	Motor Vehicle 56 or 9.2%
44706	512	Falls 173 or 33.8%	Struck By/Striking/Sports 136 or 26.6%	Cutting/Knives 43 or 8.4%
44707	317	Falls 98 or 30.9%	Struck By/Striking/Sports 68 or 21.5%	Overexertion 27 or 8.5%
44708	471	Falls 171 or 36.3%	Struck By/Striking/Sports 116 or 24.6%	Overexertion 40 or 8.5%
44709	216	Falls 76 or 35.2%	Struck By/Striking/Sports 47 or 21.8%	Overexertion 21 or 9.7%
44710	293	Falls 101 or 34.5%	Struck By/Striking/Sports 64 or 21.8%	Cutting/Knives 23 or 7.8%
44714	151	Falls 57 or 37.7%	Struck By/Striking/Sports 22 or 14.6%	Cutting/Knives 18 or 11.9%
44718	80	Falls 28 or 35.0%	Struck By/Striking/Sports 21 or 26.3%	Cutting/Knives 9 or 11.3%
44720	209	Falls 86 or 41.1%	Struck By/Striking/Sports 49 or 23.4%	Motor Vehicle 17 or 8.1%
44721	115	Falls 45 or 39.1%	Struck By/Striking/Sports 29 or 25.2%	Motor Vehicle 11 or 9.6%
44730	1023	Falls 34 or 27.6%	Struck By/Striking/Sports 31 or 25.2%	Overexertion 17 or 13.8%
44735	2	Struck By/Striking/Sports 2 or 100.0%	NA	NA

Significant Findings

- Increased age, increased activity and invincible character/thoughts results in an increased number of struck by/striking object and overexertion/strenuous movements injuries.
- Males suffered more injuries than females in all injury types except for *Overexertion/strenuous movements*
- The majority of the injuries occurred from April through September.
- 64% of *poisonings* were drug related (accidental or reaction to a drug).
- The 44685 zip code had the lowest rate of injury for their children at 8.8 per 1,000.
- The majority of the *wheeled sports* injuries were bicycle related. Over 56% of the wheeled sport injuries were suffered by children ages 10 to 14 (middle school age).
- Dog bites accounted for 53% of the *animal related* injuries.
- Children ages 5 and under suffered 70% of all *foreign body* injuries, followed closely by 3 and 4 year old children.
- One and two year olds suffered more *poisonings* than any other age group (two to three times more)
- The top 2 (of 12) most occurring injuries, *falls* and *struck by/striking objects/sports*, accounted for over 55% of all injuries.
- With the exception of age 0, *Cutting/Knife* related injuries occurred evenly across all age groups.
- The rate of *abuse/assault/neglect* injuries for 13 and 14 year olds was 50%; children ages 12 and under also suffered 50% of these injuries.
- Infant and Toddlers (1 and 2 year olds) that begin to maneuver around the house have the highest number of documented poisonings and burns. Searches and investigations, as they begin to maneuver, aids them in finding many things to put in to their mouths and pull on to themselves.

Recommendations

- Work with organizations (hospitals, school districts, etc) in the 44601 zip code to identify possible interventions to decrease the injury rate. Create a sub-report specifically for the 44601 zip code, analyzing injuries that occur.
- Work with the hospitals to obtain more detailed data on specific injury types (what types of things are classified as falls? What are examples of striking against/struck by object?)
- Incorporate injury prevention strategies into existing community programs, pediatrician offices and clinics, schools, preschools and daycares.
- 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.
- Post this document on the Safe Kids Stark County website.
- Provide this information to Safe Kids Worldwide and Safe Kids USA.
- Provide this report to local elementary and middle schools, as well as parent education programs.
- Survey Coalition members to determine what injury prevention is going on in the community, what curricula are being used and what recommendations they have for innovative injury prevention programs.
- Focus efforts on parental education, using creative ways (media campaign) to reach parents at creative venues (library, etc).
- Focus education efforts on middle school coaches and physical education teachers with an attempt to decrease the number of strenuous and overexertion injuries in teens. This is the third leading cause of injury and many of these could be prevented fairly easily with increased education. Working with area coaches on prevention of head injuries.
- With regard to sport related injuries, develop programs and protocol to educate kids on balance exercises, how to not be hit.
- Review current injury prevention program timelines to target efforts in months prior to the highest injury months.
- 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.
- Increase the education regarding passenger safety and wheeled sport safety (skateboards, bikes, etc). This is more of a recommendation.
- More information for new parents when leaving the hospital on safety measures for developmental stages AND by the pediatricians and in the physician offices may aid in this.
- Ask schools/community agencies to share info with coaches or create a handout for little league and school league coaches about overexertion.

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 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 child safety seats to families on the WIC (Women, Infant and Children's) Food Supplement Program through the local health departments. Safe Kids has distributed over 2,250 car seats through this program.
- Child Safety Seat Inspections: The coalition offers free car seat check-ups in the community throughout the year. Over 40 members are Certified Child Passenger Safety Technicians. Over 2,750 seats have been checked by the Coalition.
- Fitting Stations: The Coalition has organized weekly car seat fitting stations at 4 locations, as well as other agencies that take appointments as needed. These check-ups are free to the public. The fitting stations have checked over 2,000 seats.

Fire Safety

- 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.
- Over 7,500 smoke detectors and over 16,000 batteries have been distributed through Coalition programs.

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.
- Over 1,200 bike helmets have been sold or donated by the Coalition.

Pedestrian Safety

- Safe Kids Walk This Way: In conjunction with International Walk To School Day, the coalition selects an elementary school each year for an educational program – including an assembly and safety walk. Nine elementary schools have participated since 2001. Following these programs, the Coalition reviews the data from the pedestrian safety surveys and attempts to make safety changes surrounding the schools. Over 3,500 students have been reached by this program.

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.
- Over 3,500 children have been reached by this program.

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