

Childhood Injury Report

**An analysis of Stark County Hospital
Emergency Department visits for
Stark County children age 17 and under***

**7th Annual Report
January 1, 2009 - December 31, 2009**



REPORT PREPARED BY:

Safe Kids Stark County
Data & Research Committee
&

Stark County Health Department
Administration & Support Services Division



***Previous Reports only included children 14 and under**

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

Safe Kids Coordinator: Amanda Kelly, BA, CHES Stark County Health Department	Committee Chair: Lisa Tavallali, MBA Aultman Hospital
Committee Members: Beth Canfield-Simbro, Ph.D., MPH, CHES Mount Union College	Sheree Nuske, RN Aultman Hospital
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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 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, 2009 through December 31, 2009. 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 17 and under during the time frame. Date of treatment, patient's age, race, gender, zip code where the child lives, and the e-code were reported for combined analysis.

For this report, additional ages were reported (15-17) and race was also included. Previous reports included ages 14 and under.

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. This report includes children up to age 17 to assist our partners with their injury prevention programming.

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 2002-2008. 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 2003-2008 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 the Safe Kids Stark County Executive 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, 2009 through December 31, 2009. During that time, 9,262 Stark County children ages 17 and under were treated in the four Stark County Emergency Departments (ED) for injuries.

With additional funding provided by the Ohio Department of Health, the age range for the report was increased to 17 and under and race was added.

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%.

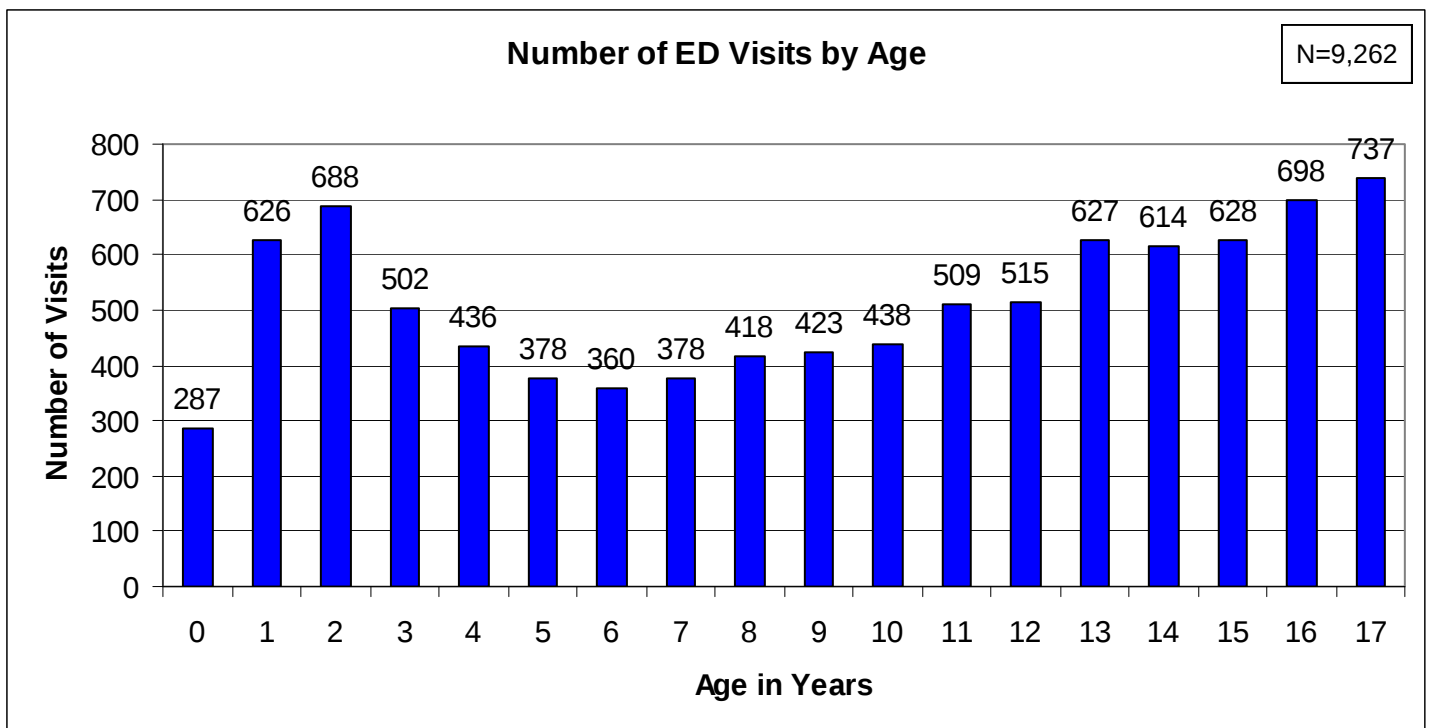
Demographic Analysis

- Seventeen year old children were most often seen in the emergency departments, followed by sixteen and two 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 seventeen and sixteen year olds, respectively. (Based on population—see page 6, column 5)
- May was the most prevalent month for emergency department visits, followed by September and August.
- 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, followed by 44646 and 44705. (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, followed by 44601 and 44702. (Based on population—see page 8)

Overall Demographic Information

TOTAL NUMBER OF CHILDREN TREATED

9,262



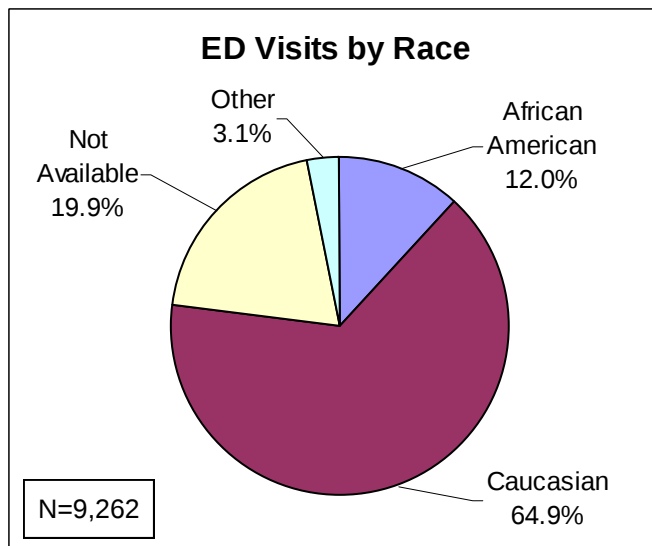
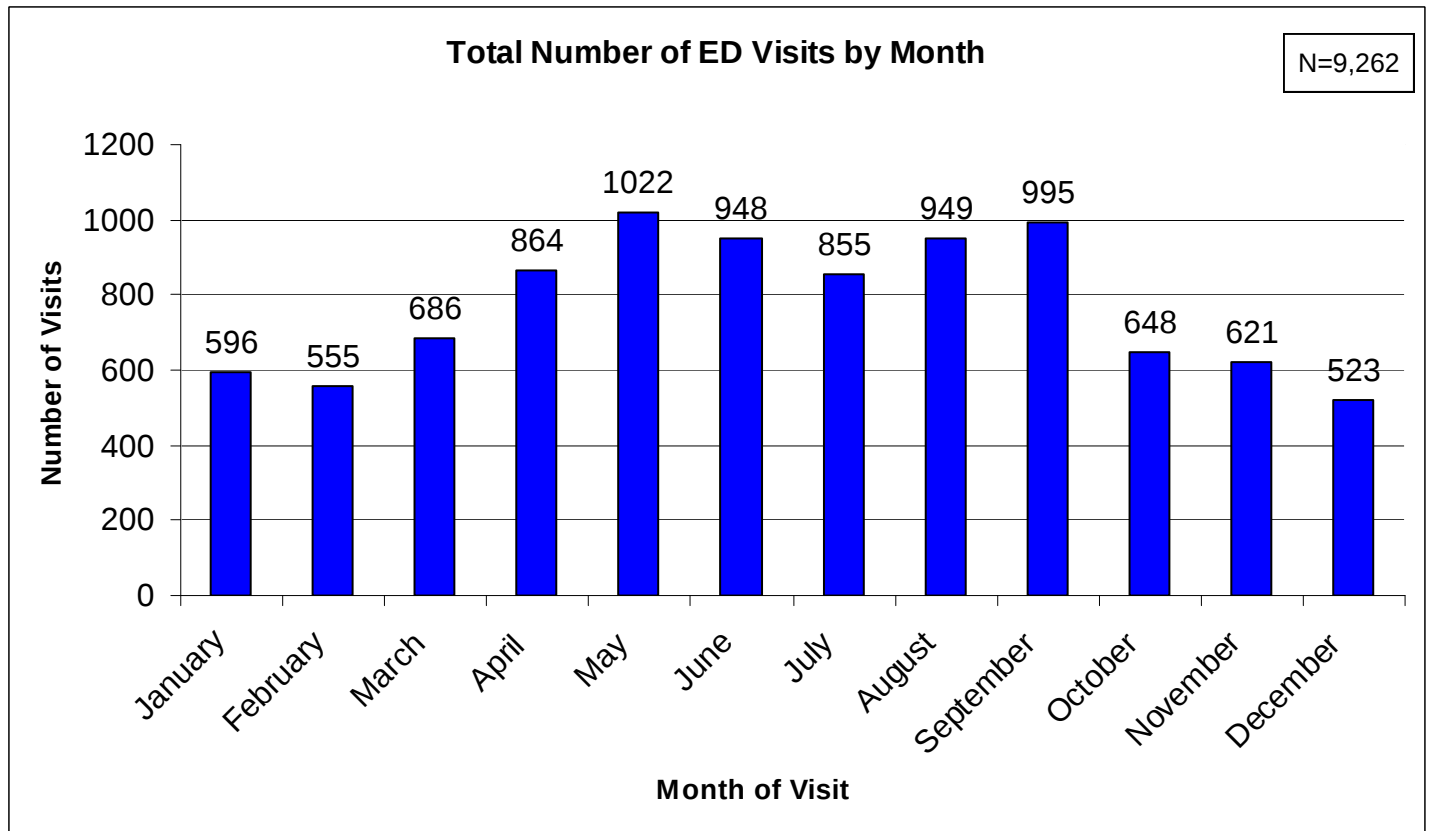
Overall Demographic Information

Age	# of Injuries	% of Total Injuries	Population*	Rate of Injury Per 1,000 Population
0	287	3.1%	4,769	61.3
1	626	6.8%	4,731	132.3
2	688	7.4%	4,826	142.6
3	502	5.4%	4,732	106.1
4	436	4.7%	5,109	85.3
5	378	4.1%	5,015	75.4
6	360	3.9%	5,048	71.3
7	378	4.1%	5,303	71.3
8	418	4.5%	5,406	77.3
9	423	4.6%	5,615	75.3
10	438	4.7%	5,629	77.8
11	509	5.5%	5,433	93.7
12	515	5.6%	5,326	96.7
13	627	6.8%	5,291	118.5
14	614	6.6%	5,517	111.3
15	628	6.8%	5,449	115.3
16	698	7.5%	5,241	133.2
17	737	8.0%	5,496	134.1
TOTAL	9,262	100.0%	93,846	98.7

*Source: 2000 Census—includes only those residing in Stark County

Overall Demographic Information

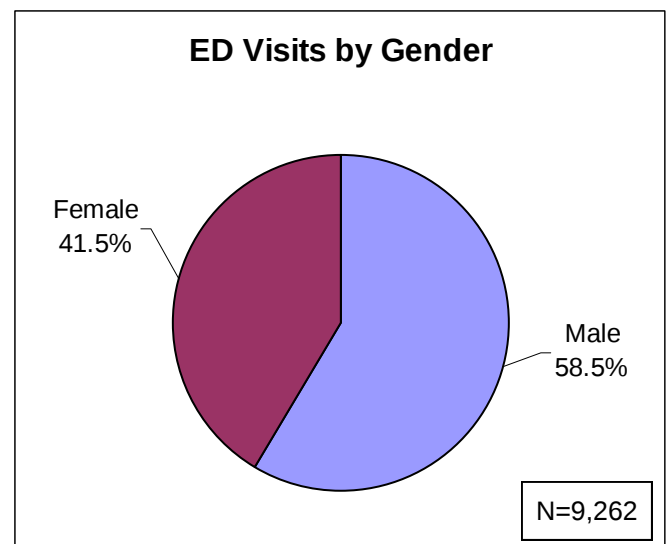
TOTAL NUMBER OF CHILDREN TREATED: 9,262



Stark County Population Age 17 and younger, by Race

Caucasian: 85.5%
 African American: 10.0%
 Other (including multi-racial): 4.5%

Source: 2000 Census



Stark County Population Age 17 and younger, by Gender

Male: 51.4%
 Female: 48.6%

Source: 2000 Census

Zip Code Information

Zip Code	# of Injuries	Population* (Ages 0-17)	Injury Rate per 1,000 Population		Zip Code	# of Injuries	Population* (Ages 0-17)	Injury Rate per 1,000 Population
44601	1,501	8,885	168.9		44685	72	6,461	11.1
44608	38	657	57.8		44688	82	938	87.4
44613	51	618	82.5		44689	9	251	35.9
44614	123	3,167	38.8		44701	17	NA	NA
44626	89	740	120.3		44702	20	124	161.3
44630	0	NA	NA		44703	328	3,038	108.0
44632	57	2,657	21.5		44704	148	1,565	94.6
44641	392	4,994	78.5		44705	733	6,241	117.4
44643	89	800	111.3		44706	653	4,887	133.6
44646	1,245	11,517	108.1		44707	449	3,086	145.5
44647	473	4,133	114.4		44708	560	5,554	100.8
44648	3	NA	NA		44709	309	3,755	82.3
44650	0	NA	NA		44710	353	2,325	151.8
44652	3	NA	NA		44714	168	1,965	85.5
44657	308	2,599	118.5		44718	96	2,824	34.0
44662	192	2,251	85.3		44720	318	9,124	34.9
44666	57	769	74.1		44721	136	3,136	43.4
44669	35	401	87.3		44730	142	1,505	94.4
44670	11	36	305.6		44735	2	NA	NA

TOTAL	# of Injuries	Population* (Ages 0-17)	Injury Rate per 1,000 Population
TOTAL	9,262	101,003	91.7

***Source: 2000 Census—may include persons not residing in Stark County**

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

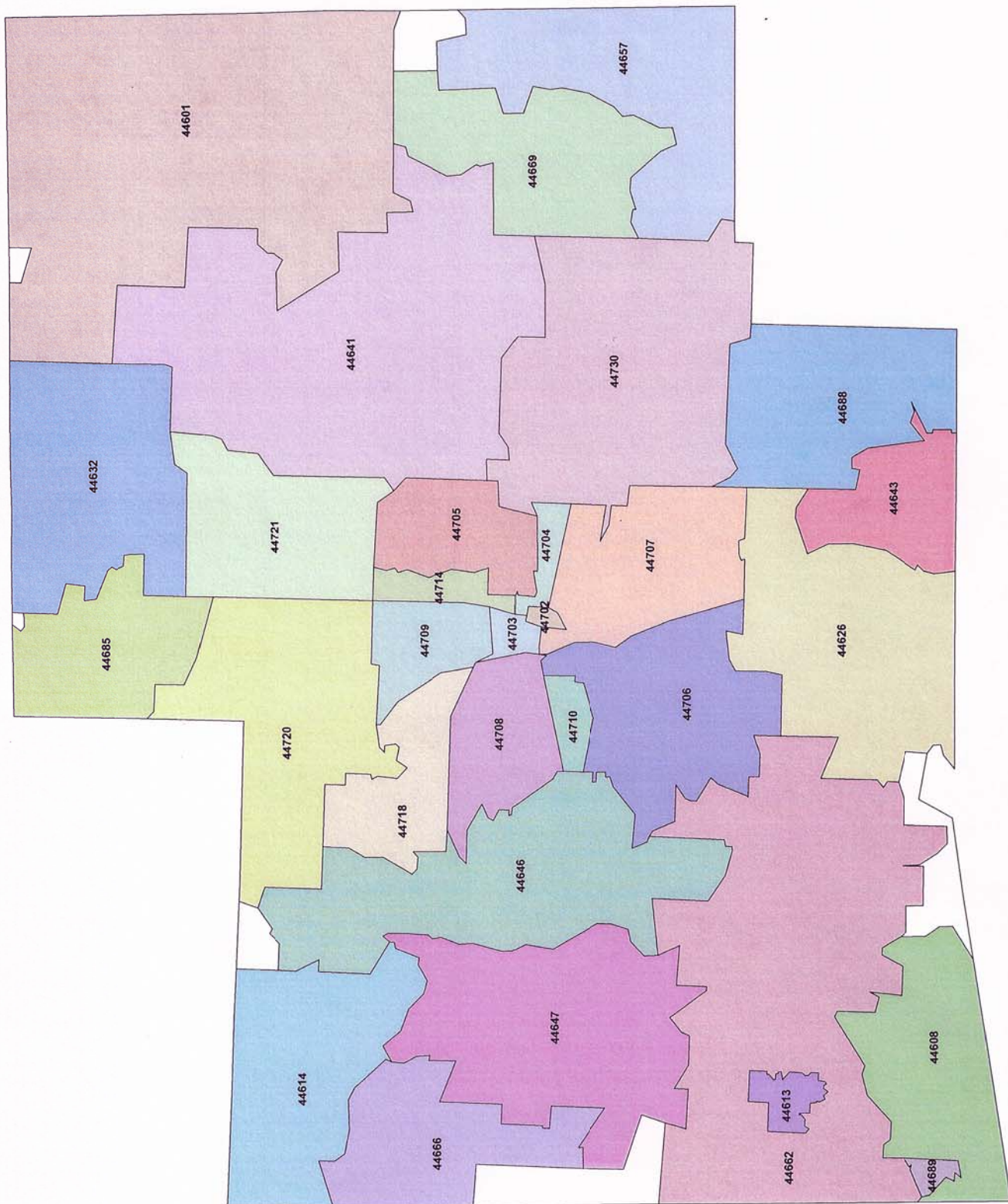
Zip Code Information
Leading Zip Codes for Injuries

By Injury Rate

44670	Minerva, Paris Twp, Robertsville
44601	Alliance City, Lexington Twp, Marlboro Twp, Washington Twp
44702	Canton City
44710	Canton City, Canton Twp, Perry Twp
44707	Canton City, Canton Twp, North Industry, Waco
44706	Canton City, Canton Twp, East Sparta, Perry Twp
44626	East Sparta, Pike Twp
44657	Minerva, Paris Twp
44705	Canton City, Plain Twp
44647	Lawrence Twp, Massillon City, 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
44707	Canton City, Canton Twp, North Industry, Waco
44641	Louisville City, Hartville, Nimishillen Twp, Osnaburg Twp, Plain Twp
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

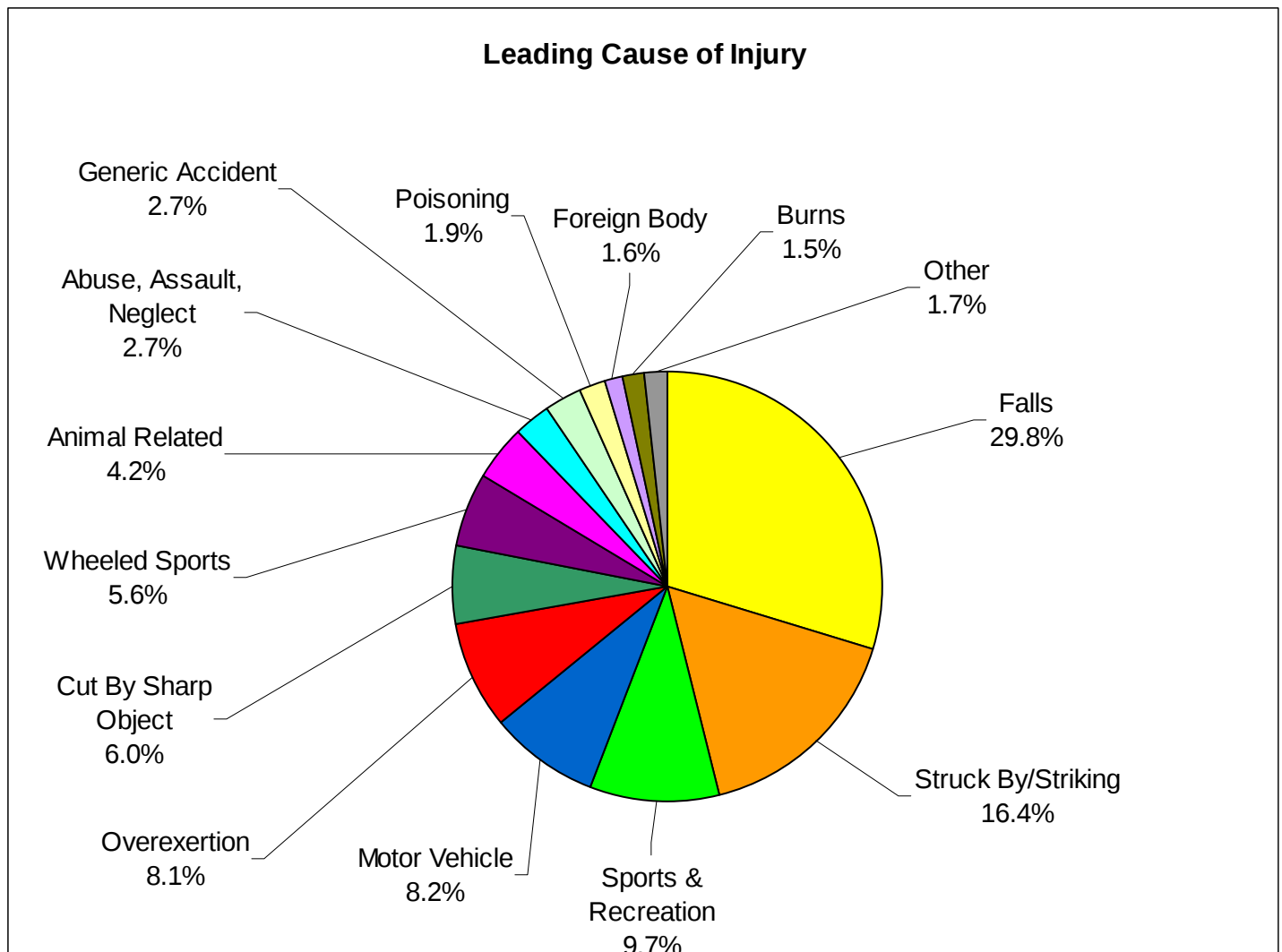
There are over 1,200 potential e-codes used in hospital emergency departments. For the purposes of this report, the committee assigned each e-code to a particular heading. The headings are listed below. The top 13 headings were further analyzed on the following pages. Some e-codes will have multiple subheadings. E-codes with no statistical significance were not analyzed, but are listed on page 27.

Abuse, Assault, Neglect
Animal Related
Burns (Not House Fire Related)
Choking/Suffocation
Cut By Sharp Object
Falls
Fire Arms
Fire Related
Foreign Body (Not Choking)
Generic Accident
Human Bites
Machinery
Motor Vehicle
Overexertion
Poisoning
Struck By/Striking Object
Sports & Recreation
Suicide
Water Related
Weather
Wheeled Sports

Top 13 Leading Causes of Injury

There were 9,262 children treated between January 1, 2009 and December 31, 2009.

Injury Type	#	%
Falls	2,769	29.8%
Struck By/Striking Object	1,507	16.4%
Sports & Recreation	909	9.7%
Motor Vehicle	759	8.2%
Overexertion	737	8.1%
Cut by Sharp Object	557	6.0%
Wheeled Sports	516	5.6%
Animal Related	387	4.2%
Abuse/Assault/Neglect	252	2.7%
Generic Accident	245	2.7%
Poisoning	178	1.9%
Foreign Body	149	1.6%
Burns (Not House Fire)	135	1.5%
All Other (not in top 13 - see page 27)	162	1.7%



Falls

Falls were the leading cause of injury for children. There were 2,769 children treated for a fall related injury, accounting for 29.9% of the injuries during this report time frame.

May (320, 11.6%) was the most prevalent month for these injuries, followed by June (303, 10.9%) and September (256, 9.2%).

The 44601 zip code (424, 15.3%) was the most prevalent zip code for these injuries, followed by 44646 (375, 13.5%) and 44705 (247, 8.9%).

Number of Visits by Gender

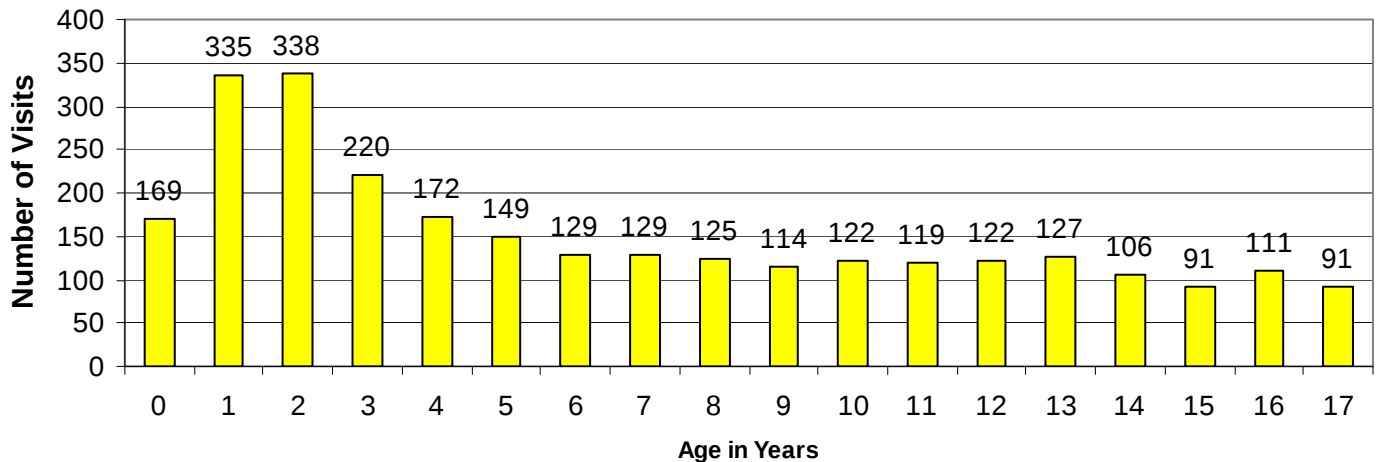
Gender	#	%
Male	1,503	54.3%
Female	1,266	45.7%

Number of Visits by Race

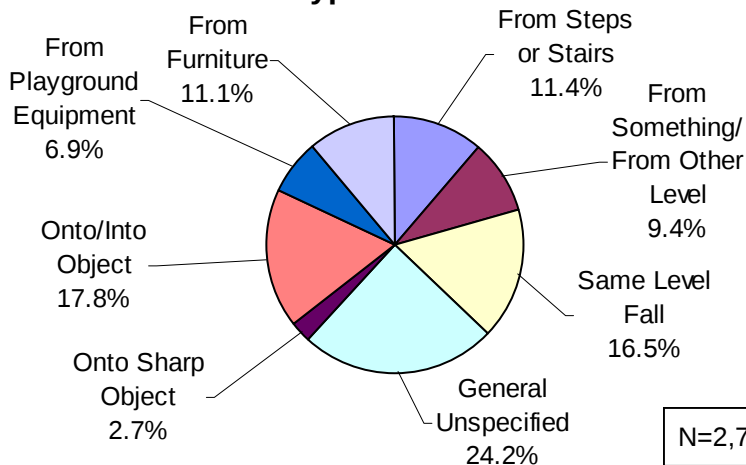
Race	#	%
African American	294	10.6%
Caucasian	1,852	66.9%
Other	104	3.8%
Not Available	519	18.7%

Number of Fall Visits by Age

N=2,769



Type of Falls



N=2,769

Struck By / Striking Object

There were 1,507 children treated for an injury caused by being struck by or striking an object. This was the second leading cause of injury, accounting for 16.3% of the injuries during this report time frame.

September (161, 10.7%) was the most prevalent month for these injuries, followed by May (157, 10.4%) and April (154, 10.2%).

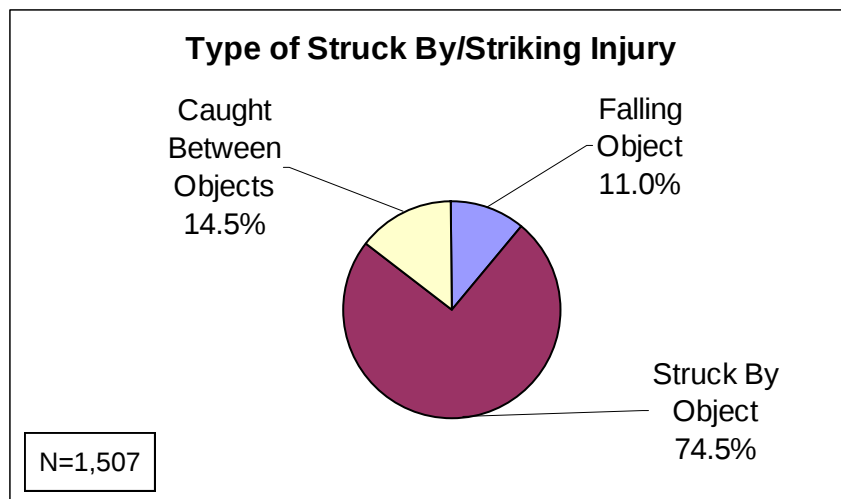
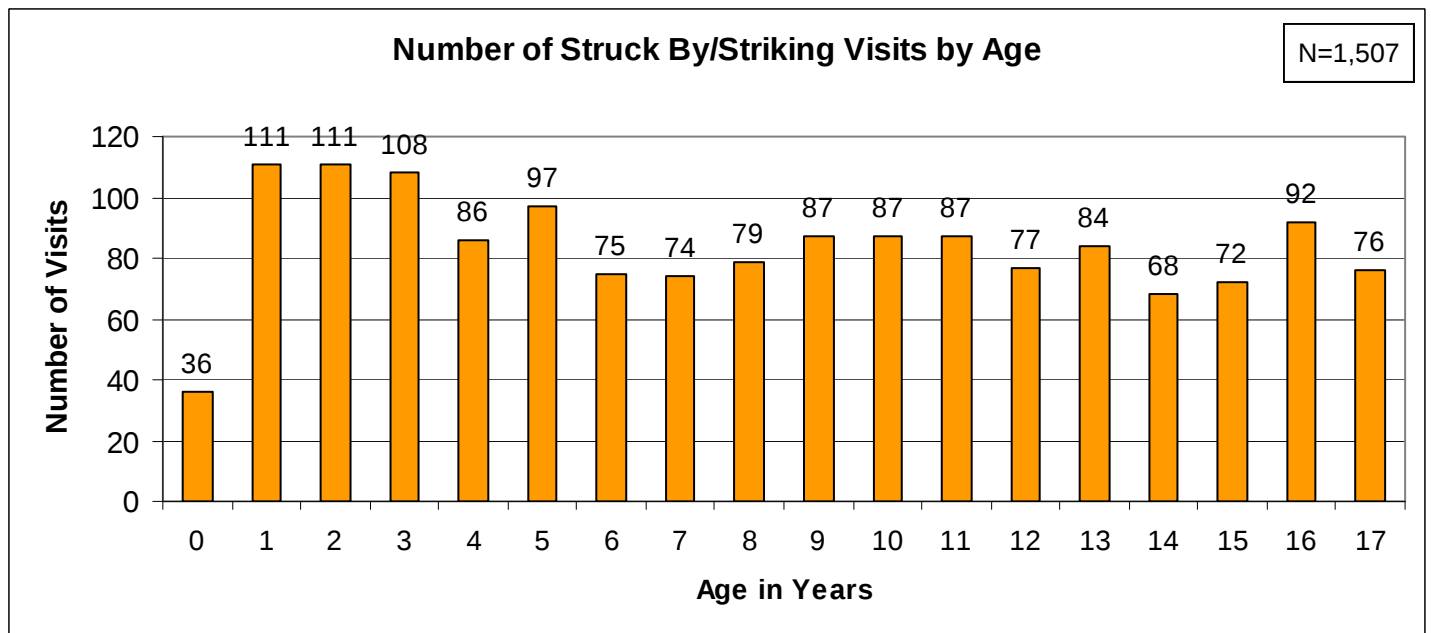
The 44601 zip code (242, 16.1%) was the most prevalent zip code for these injuries, followed by 44646 (209, 13.9%) and 44706 (114, 7.6%).

Number of Visits by Gender

Gender	#	%
Male	925	61.4%
Female	582	38.6%

Number of Visits by Race

Race	#	%
African American	171	11.3%
Caucasian	998	66.2%
Other	33	2.2%
Not Available	305	20.2%



Sports & Recreation

There were 909 children treated for an injury caused by Sports & Recreation. This was the third leading cause of injury, accounting for 9.8% of the injuries during this report time frame.

September (178, 19.6%) was the most prevalent month for these injuries, followed by October (105, 11.6%) and August (103, 11.3%).

The 44601 zip code (152, 16.7%) was the most prevalent zip code for these injuries, followed by 44646 (98, 11.3%) and 44706 (71, 8.2%).

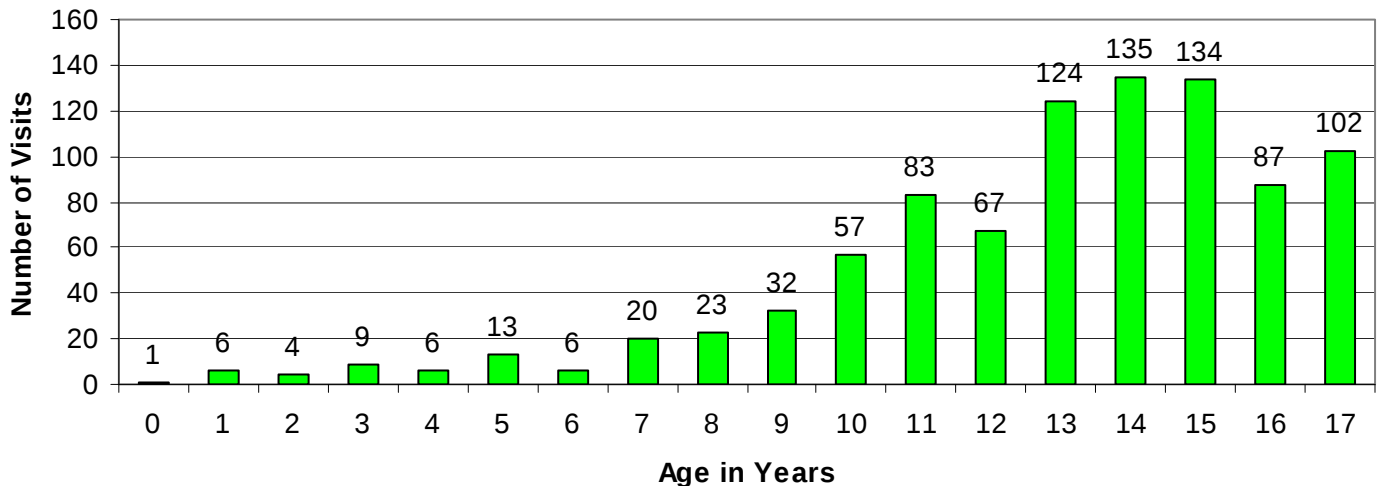
Number of Visits by Gender

Gender	#	%
Male	697	76.7%
Female	212	23.3%

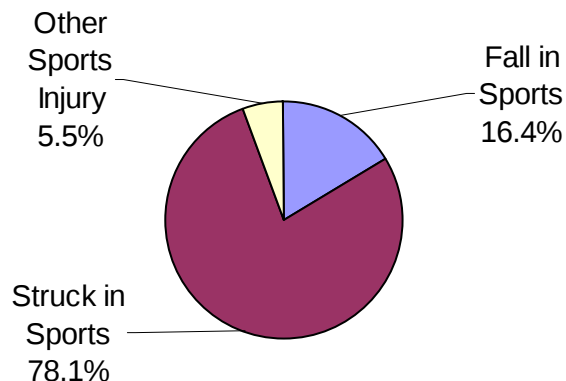
Number of Visits by Race

Race	#	%
African	100	11.0%
Caucasian	598	65.8%
Other	20	2.2%
Not Available	191	21.0%

Number of Sports & Recreation Visits by Age



Type of Sports & Recreation Injury



Motor Vehicle

There were 759 children treated for motor vehicle related injuries. This was the fourth leading cause of injury, accounting for 8.2% of the injuries during this report time frame.

June (101, 13.3%) was the most prevalent month for these injuries, followed by April (82, 10.8%) and May (81, 10.7%).

The 44646 zip code (94, 12.4%) was the most prevalent zip code for these injuries, followed by 44601 (82, 10.8%), 44647 (55, 7.2%) and 44705 (55, 7.2%).

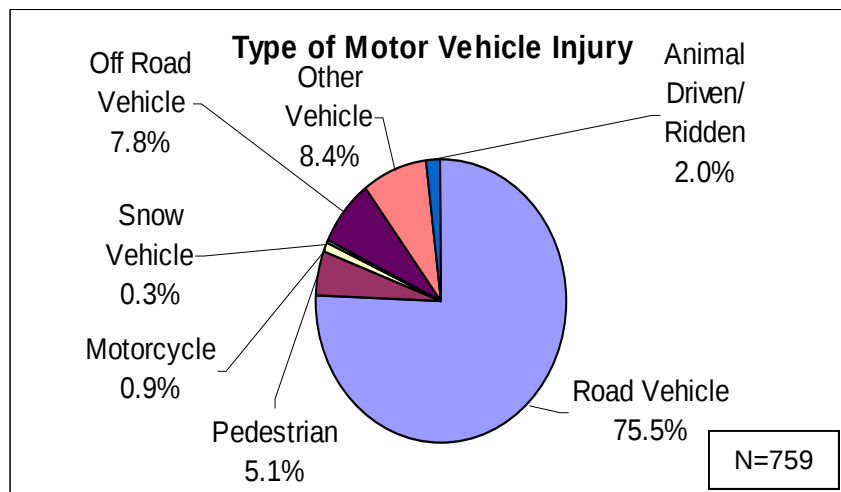
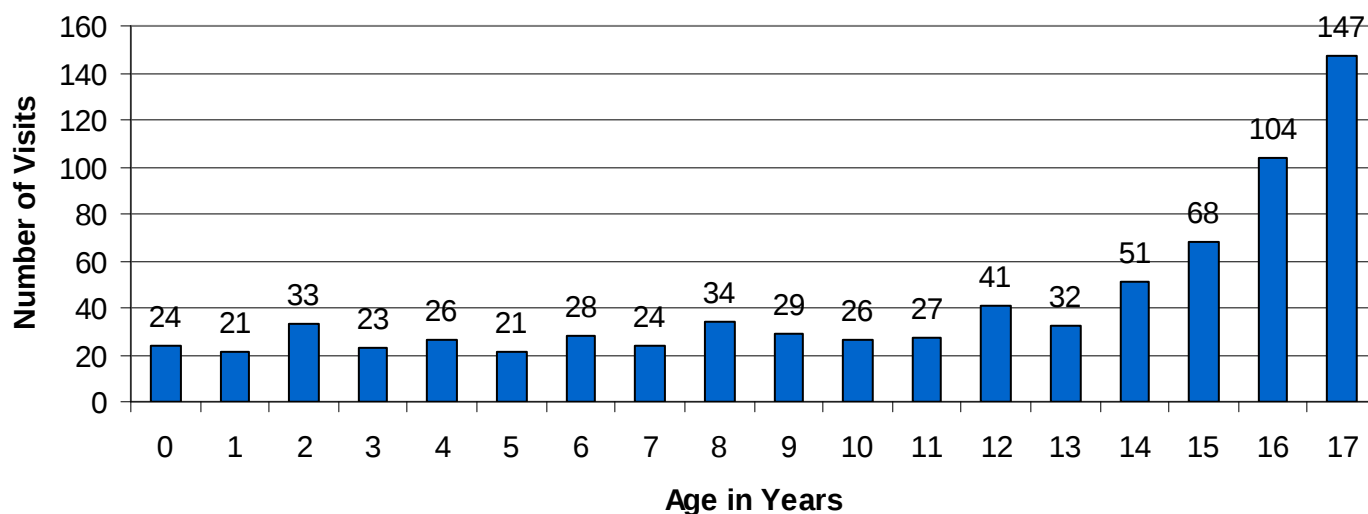
Number of Visits by Gender

Gender	#	%
Male	349	46.0%
Female	410	54.0%

Number of Visits by Race

Race	#	%
African American	121	15.9%
Caucasian	511	67.3%
Other	16	2.1%
Not Available	111	14.6%

Number of Motor Vehicle Visits by Age



Overexertion

There were 737 children treated for an Overexertion related injury. This was the fifth leading cause of injury, accounting for 8.0% of the injuries during this report time frame.

September (104, 14.1%) was the most prevalent month for these injuries, followed by May (94, 12.8%), and April (79, 10.7%).

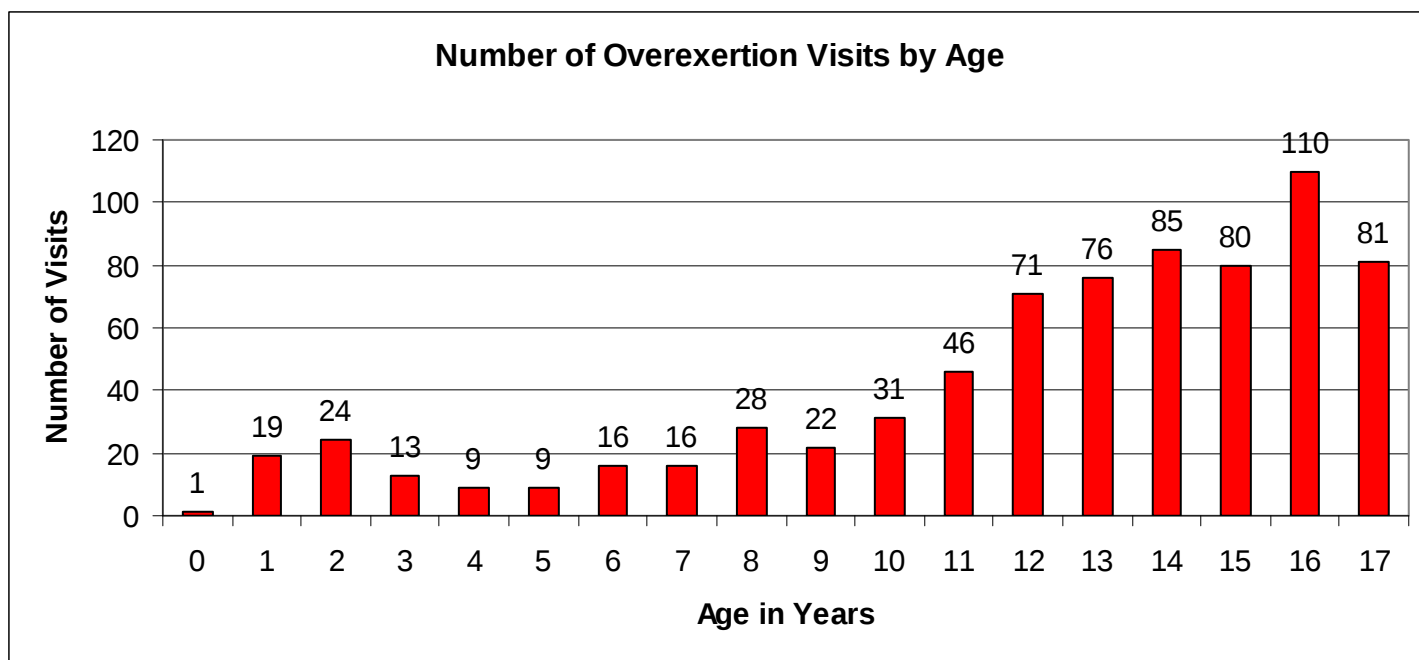
The 44601 zip code (107, 14.5%) was the most prevalent zip code for these injuries, followed by 44646 (94, 12.8%) and 44706 (71, 9.6%).

Number of Visits by Gender

Gender	#	%
Male	394	53.5%
Female	343	46.5%

Number of Visits by Race

Race	#	%
African American	95	12.9%
Caucasian	491	66.6%
Other	21	2.9%
Not Available	130	17.6%



An **Overexertion Injury** includes a type of injury or strenuous movement, where the body is stressed beyond normal capabilities causing injury. Examples could include sprained joints, strained muscles, broken bones, etc.

Cut By Sharp Object

There were 557 children treated for an injury caused by sharp objects. This was the sixth leading cause of injury, accounting for 6.0% of the injuries during this report time frame.

August (75, 13.5%) was the most prevalent month for these injuries, followed by May (65, 11.7%) and July (65, 11.7%).

The 44601 zip code (93, 16.7%) was the most prevalent zip code for these injuries, followed by 44646 (77, 13.8%) and 44705 (51, 9.2%).

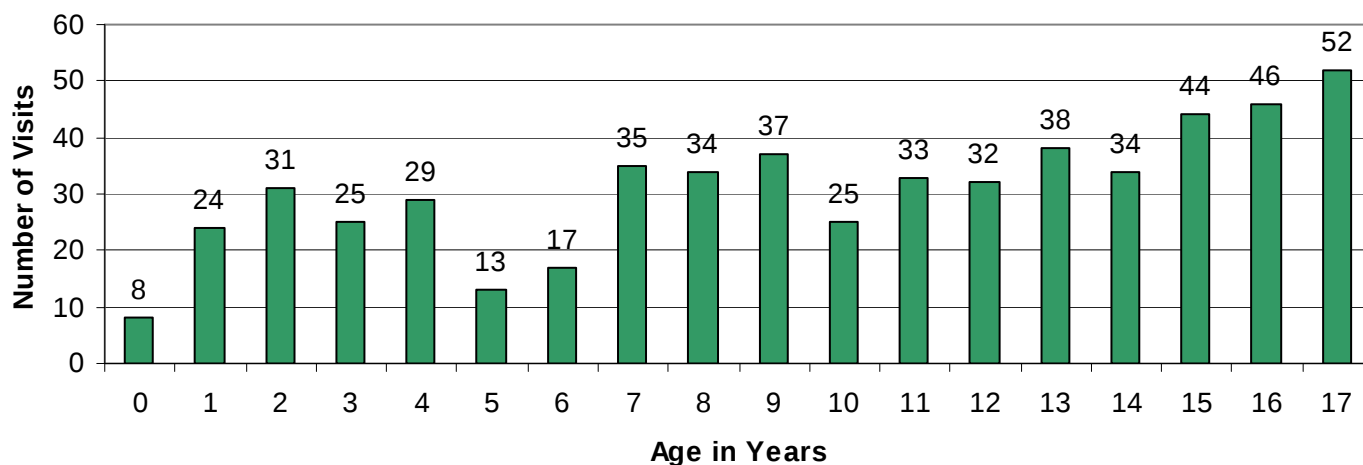
Number of Visits by Gender

Gender	#	%
Male	362	65.0%
Female	195	35.0%

Number of Visits by Race

Race	#	%
African American	85	15.1%
Caucasian	345	61.9%
Other	19	3.4%
Not Available	109	19.6%

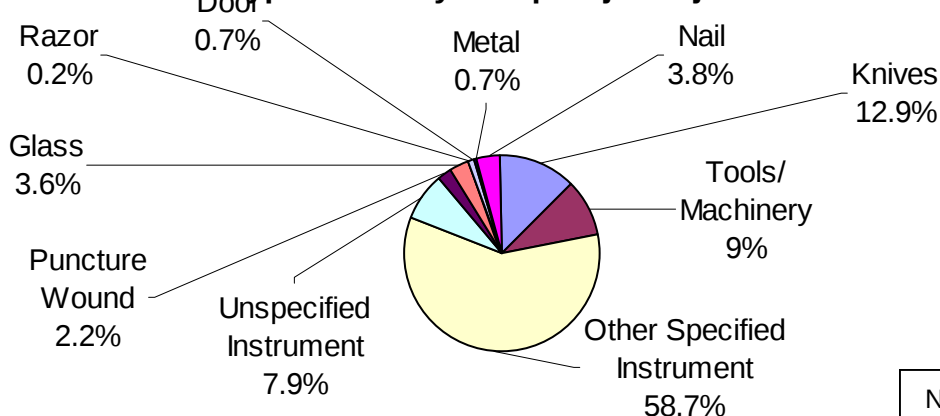
Number of Cut By Sharp Object Visits by Age



Other specified instruments include non-specific items with no actual code to identify them (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).

Type of Cut By Sharp Object Injuries



N=557

Wheeled Sports

There were 516 children treated for wheeled sports related injuries. This was the seventh leading cause of injury, accounting for 5.6% of the injuries during this report time frame.

July (86, 16.7%) and August (86, 16.7%) were the most prevalent months for these injuries, followed by May (74, 14.3%).

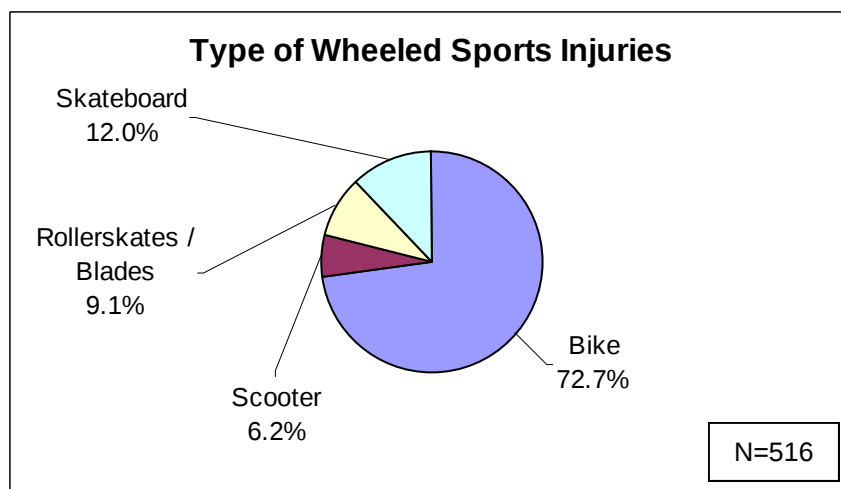
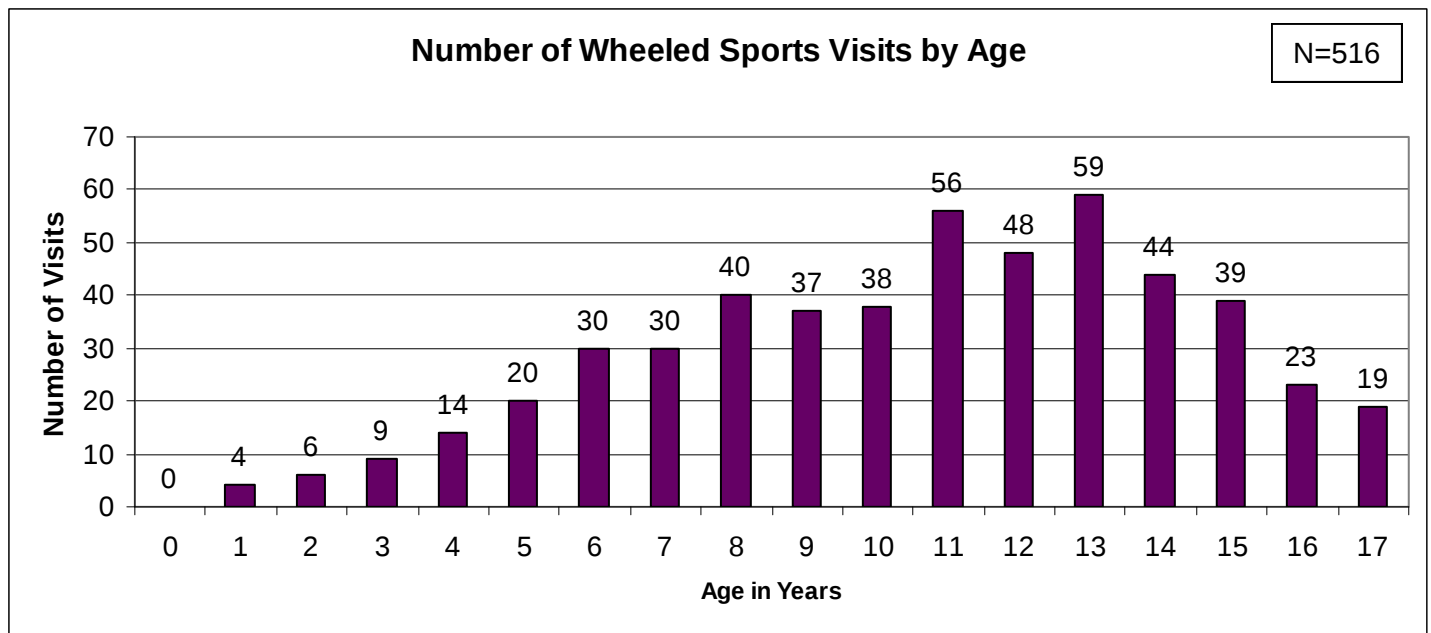
The 44601 (78, 15.1%) and 44646 (78, 15.1%) were the most prevalent zip codes for these injuries, followed by 44705 (38, 7.4%).

Number of Visits by Gender

Gender	#	%
Male	353	68.4%
Female	163	31.6%

Number of Visits by Race

Race	#	%
African American	46	8.9%
Caucasian	361	70.0%
Other	13	2.5%
Not Available	96	18.6%



Animal Related

There were 387 children treated for animal related injuries. This was the eighth leading cause of injury, accounting for 4.2% of the injuries during this report time frame.

August (72, 18.6%) was the most prevalent month for these injuries, followed by July (65, 16.8%) and September (56, 14.5%).

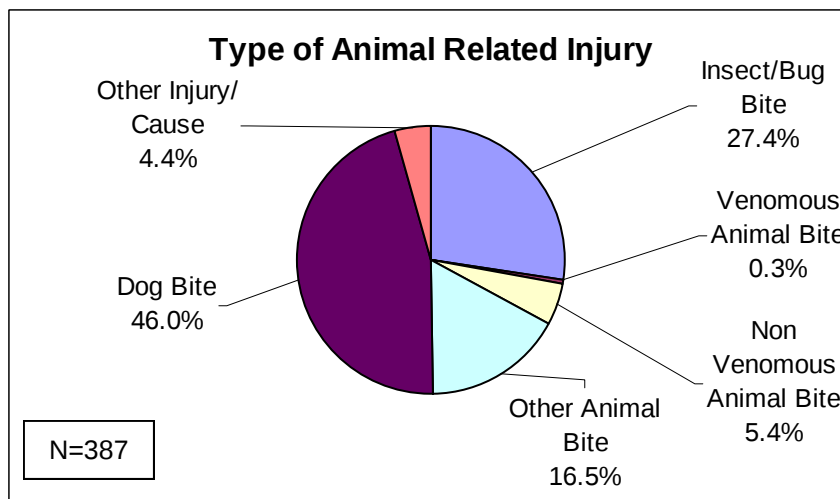
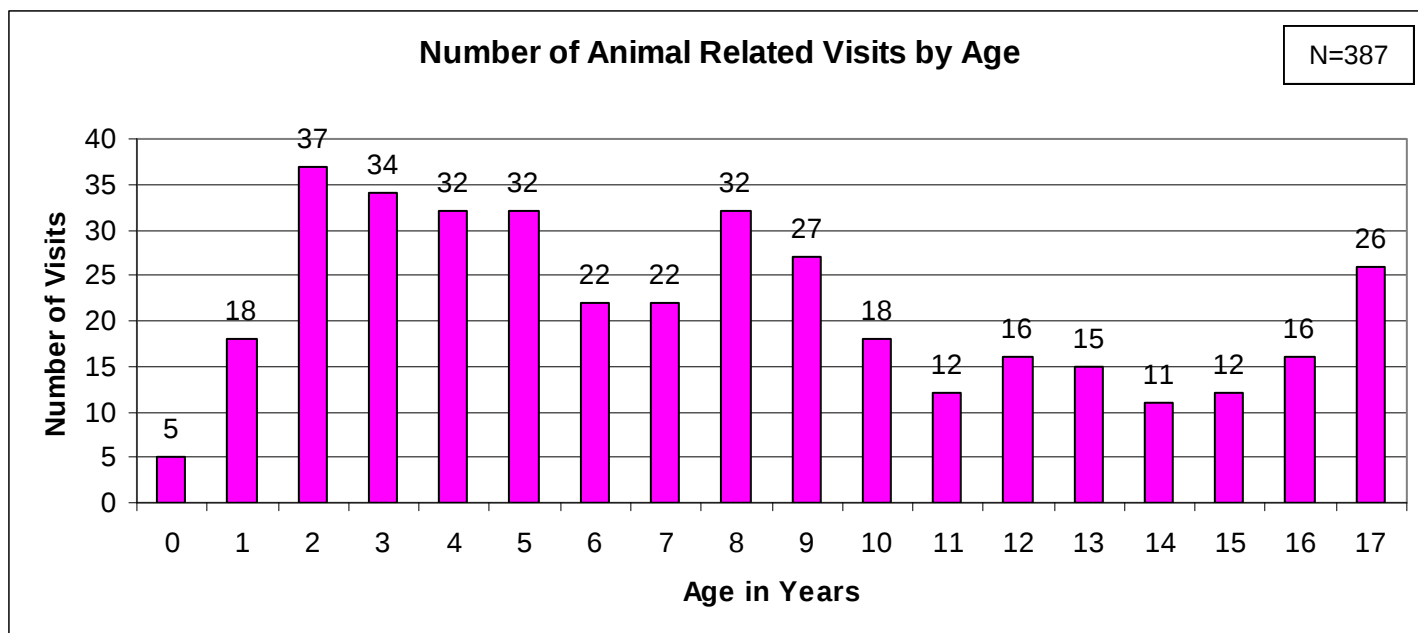
The 44601 zip code (107, 27.6%) was the most prevalent zip code for these injuries, followed by 44646 (43, 11.1%) and 44705 (32, 8.3%).

Number of Visits by Gender

Gender	#	%
Male	209	54.0%
Female	178	46.0%

Number of Visits by Race

Race	#	%
African American	36	9.3%
Caucasian	201	51.9%
Other	17	4.4%
Not Available	133	34.4%



Abuse / Assault / Neglect

There were 252 children treated for abuse, assault and neglect related injuries. This was the ninth leading cause of injury, accounting for 2.7% of the injuries during this report time frame.

April (29, 11.5%) and September (29, 11.5%) were the most prevalent month for these injuries, followed by January (27, 10.7%).

The 44646 zip code (39, 15.5%) was the most prevalent zip code for these injuries, followed by 44601 (30, 11.9%) and 44706 (26, 10.3%).

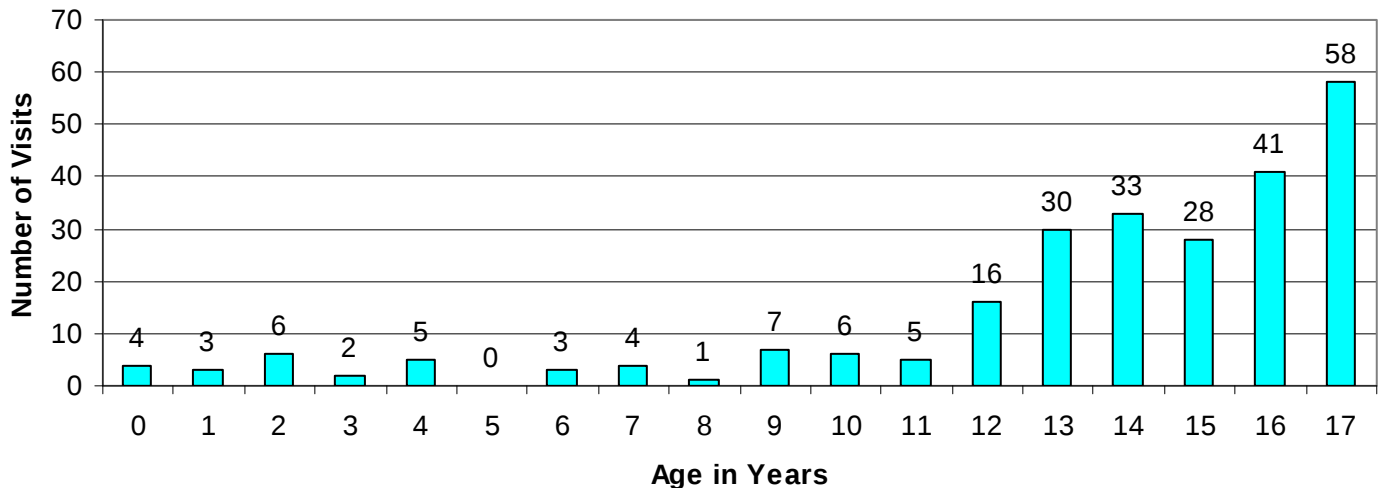
Number of Visits by Gender

Gender	#	%
Male	160	63.5%
Female	92	36.5%

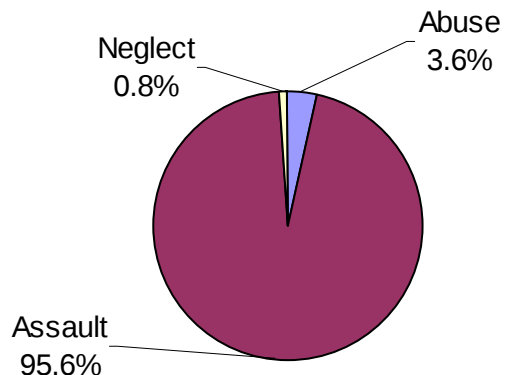
Number of Visits by Race

Race	#	%
African American	59	23.4%
Caucasian	146	57.9%
Other	9	3.6%
Not Available	38	15.1%

Number of Abuse/Assault/Neglect Visits by Age



Type of Abuse/Assault/Neglect Injury



Generic Accident

There were 245 children treated for generic accidents. This was the tenth leading cause of injury, accounting for 2.6% of the injuries during this report time frame.

May (32, 13.1%) was the most prevalent month for these injuries, followed by March (27, 11.0%) and August (27, 11.0%).

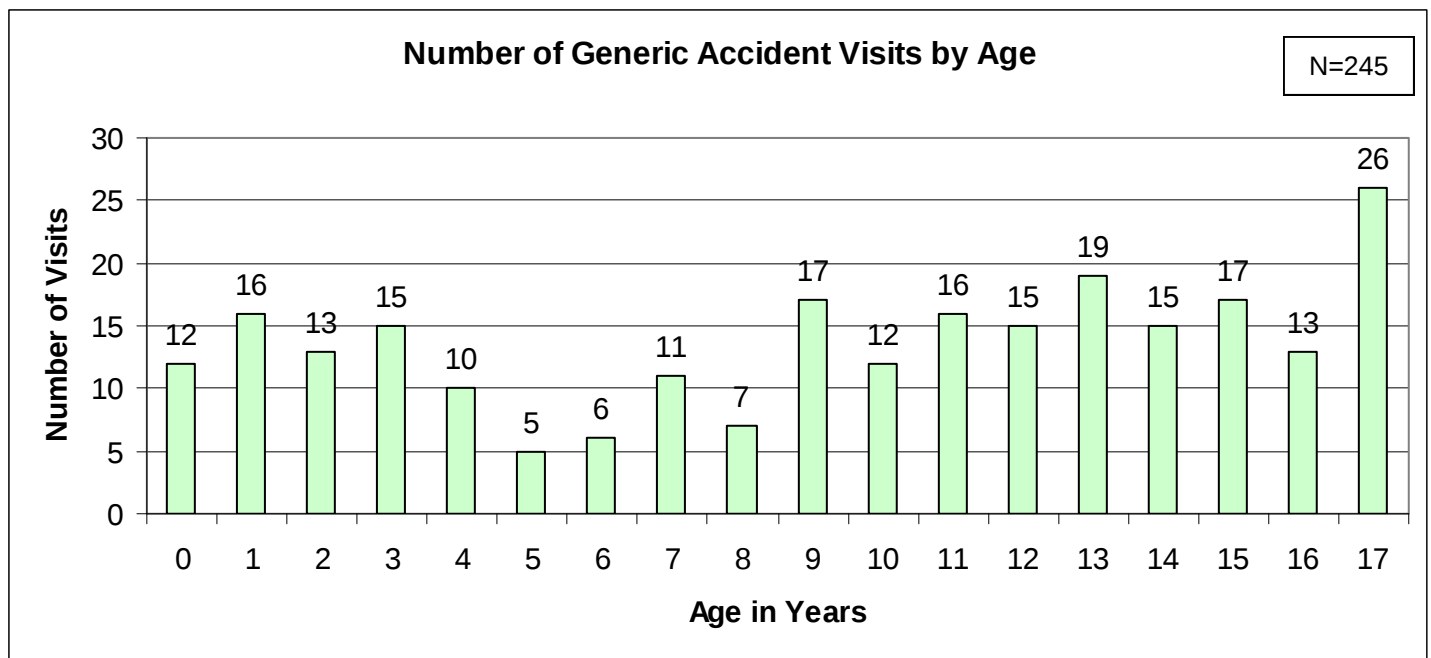
The 44601 zip code (56, 22.9%) was the most prevalent zip code for these injuries, followed by 44646 (34, 13.9%) and 44647 (21, 8.6%).

Number of Visits by Gender

Gender	#	%
Male	142	58.0%
Female	103	42.0%

Number of Visits by Race

Race	#	%
African American	35	14.3%
Caucasian	139	56.7%
Other	6	2.4%
Not Available	65	26.5%



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 reporting to reduce the number of generic and unspecified types of injuries for future reports.

Poisoning

There were 178 children treated for poisoning injuries. This was the eleventh leading cause of injury, accounting for 1.9% of the injuries during this report time frame.

November (22, 12.4%) was the most prevalent month for these injuries, followed by July (19, 10.7%) and August (18, 10.1%).

The 44601 zip code (37, 20.8%) was the most prevalent zip code for these injuries, followed by 44646 (34, 19.1%) and 44647 (16, 9.0%).

Number of Visits by Gender

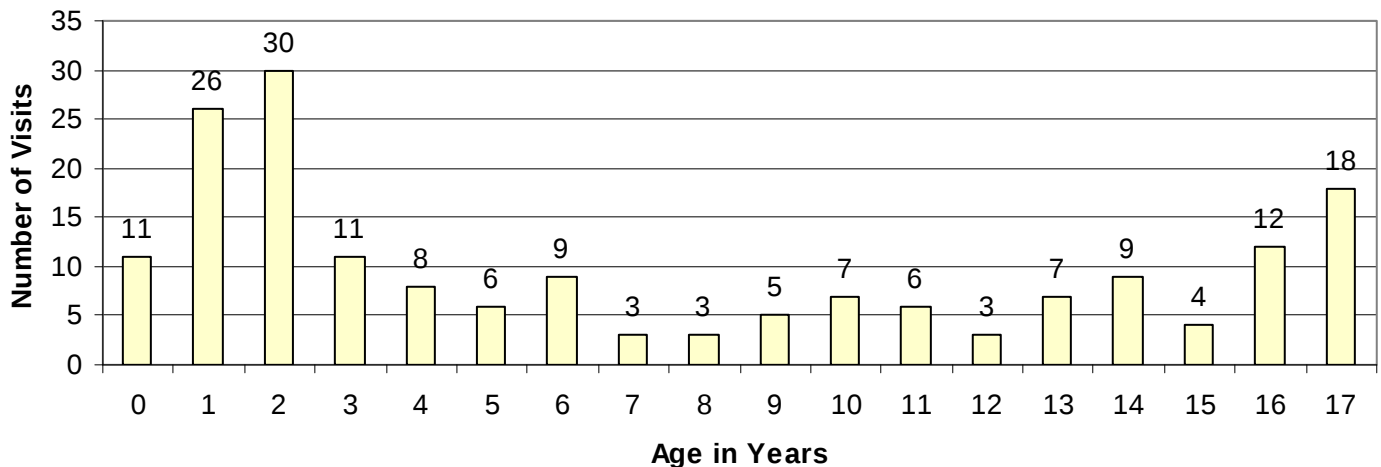
Gender	#	%
Male	87	48.9%
Female	91	51.1%

Number of Visits by Race

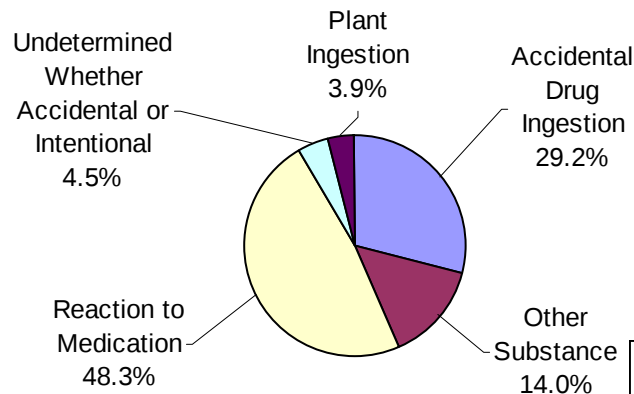
Race	#	%
African American	14	7.9%
Caucasian	110	61.8%
Other	12	6.7%
Not Available	42	23.6%

Number of Poisoning Visits by Age

N=178



Type of Poisoning



N=178

Foreign Body

There were 149 children treated for foreign body (not choking) related injuries. This was the twelfth leading cause of injury, accounting for 1.6% of the injuries during this report time frame.

November (20, 13.4%) was the most prevalent month for these injuries, followed by July (18, 12.1%) and April (16, 10.7%).

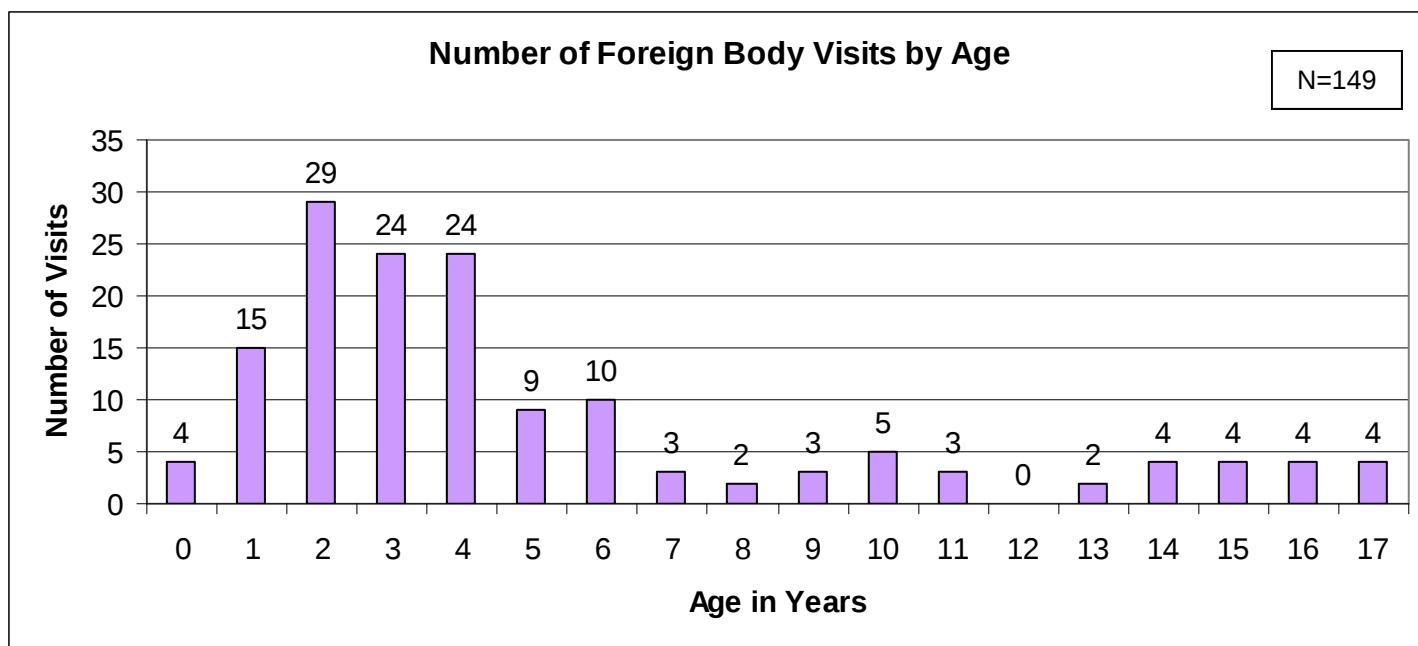
The 44601 zip code (48, 32.2%) was the most prevalent zip code for these injuries, followed by 44646 (34, 22.8%) and 44647 (11, 7.4%).

Number of Visits by Gender

Gender	#	%
Male	82	55.0%
Female	67	45.0%

Number of Visits by Race

Race	#	%
African American	21	14.1%
Caucasian	67	45.0%
Other	8	5.4%
Not Available	53	35.6%



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 all injuries during the 2009 reporting year.

Burns (not house fire related)

There were 135 children treated for burn related injuries. This was the thirteenth leading cause of injury, accounting for 1.5% of the injuries during this report time frame.

July (21, 15.6%) was the most prevalent month for these injuries, followed by June (15, 11.5%), August (14, 10.4%) and November (14, 10.4%).

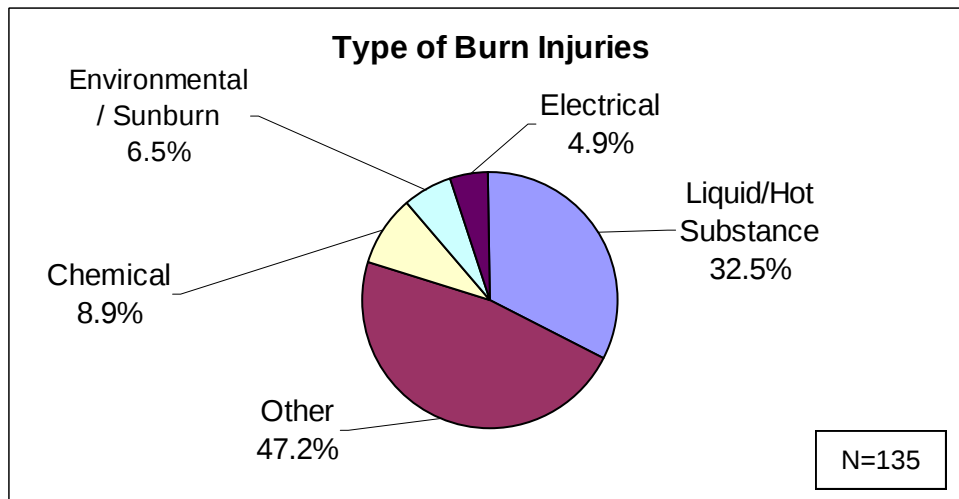
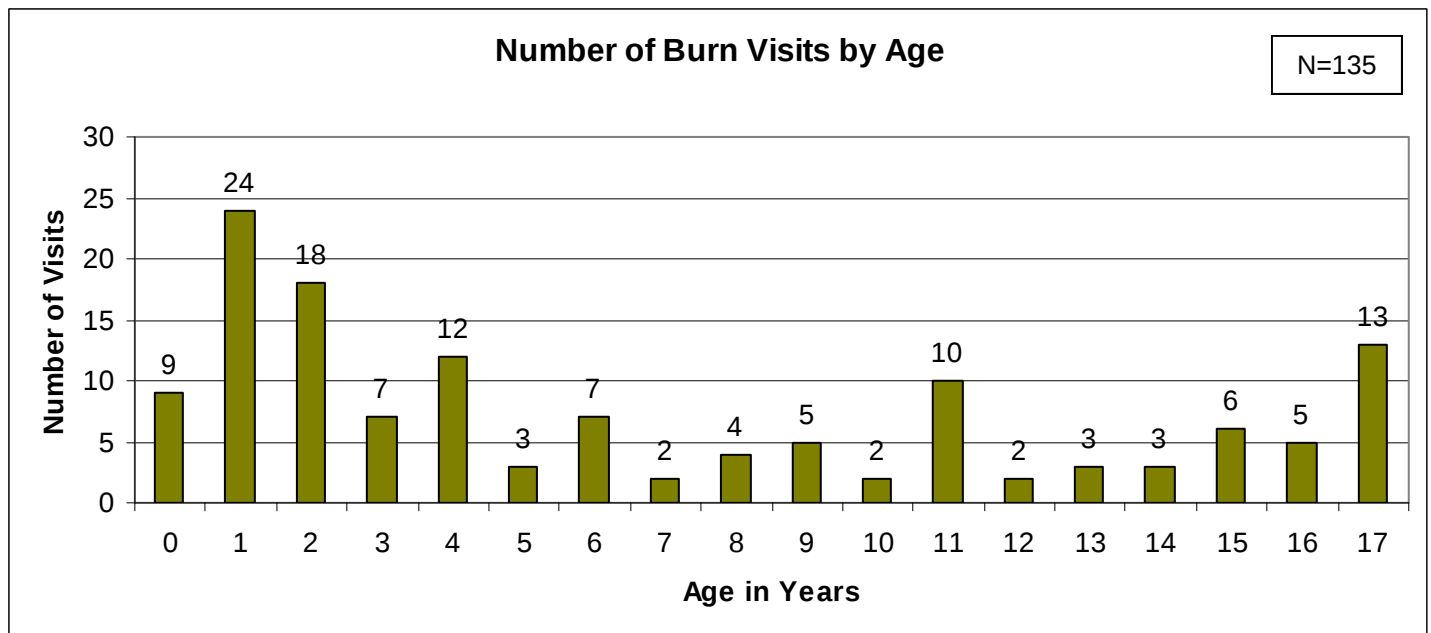
The 44601 zip code (27, 20.0%) was the most prevalent zip code for these injuries, followed by 44646 (17, 12.6%) and 44705 (12, 8.9%).

Number of Visits by Gender

Gender	#	%
Male	75	57.5%
Female	60	42.5%

Number of Visits by Race

Race	#	%
African American	24	17.8%
Caucasian	79	58.5%
Other	5	3.7%
Not Available	27	20.0%



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 2009 reporting year.

Other Types of Injury

While these injuries were not in the top 13 nor analyzed in this report, it is important to note them because they are injuries that are occurring in Stark County.

Type of Injury	Number of Injuries
Attempted Suicide	80
Water Related	17
Fire Arms	17
House Fire Related	15
Human Bite	12
Weather Related	10
Machinery	8
Choking/Suffocation	3
TOTAL OTHER INJURIES	162

2009 Childhood Deaths

Cause of Death	Number of Deaths
Homicide (Shaken Baby, Stabbing, Gunshot)	4
Motor Vehicle	3
Suicide	3
Sleep Related Asphyxia	2
House Fire	1
Hyperthermia	1
TOTAL DEATHS	14

Data may change based on findings of the Stark County Child Fatality Review Board.

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	287	Falls 169 or 68.4%	Struck By/Striking 36 or 12.5%	Motor Vehicle 24 or 8.4%
1	626	Falls 335 or 53.5%	Struck By/Striking 111 or 17.7%	Poisoning 26 or 4.2%
2	688	Falls 338 or 49.1%	Struck By/Striking 111 or 16.1%	Animal Related 37 or 5.4%
3	502	Falls 220 or 43.8%	Struck By/Striking 108 or 21.5%	Animal Related 34 or 6.8%
4	436	Falls 172 or 39.5%	Struck By/Striking 86 or 19.7%	Animal Related 32 or 7.3%
5	378	Falls 149 or 39.4%	Struck By/Striking 86 or 22.8%	Animal Related 32 or 8.5%
6	360	Falls 129 or 35.8%	Struck By/Striking 75 or 20.8%	Wheeled Sports 30 or 8.3%
7	378	Falls 129 or 34.1%	Struck By/Striking 74 or 19.6%	Cut by Sharp Object 35 or 9.3%
8	418	Falls 125 or 29.9%	Struck By/Striking 79 or 18.9%	Wheeled Sports 40 or 9.6%
9	423	Falls 114 or 27.0%	Struck By/Striking 87 or 20.6%	Wheeled Sports or Cut By Sharp Object 37 or 8.8%
10	438	Falls 122 or 27.9%	Struck By/Striking 87 or 19.9%	Sports & Recreation 57 or 13.0%
11	509	Falls 119 or 23.4%	Struck By/Striking 87 or 17.1%	Sports & Recreation 83 or 16.3%
12	515	Falls 122 or 23.7%	Struck By/Striking 77 or 15.5%	Overexertion 71 or 13.8%
13	627	Falls 127 or 20.3%	Sports & Recreation 124 or 19.8%	Struck By/Striking 84 or 13.4%
14	614	Sports & Recreation 135 or 22.0%	Falls 106 or 17.3%	Overexertion 85 or 13.8%
15	628	Sports & Recreation 134 or 21.3%	Falls 91 or 15.5%	Overexertion 80 or 12.7%
16	698	Falls 111 or 15.9%	Overexertion 110 or 15.8%	Motor Vehicle 104 or 14.9%
17	737	Motor Vehicle 147 or 20.0%	Sports & Recreation 102 or 13.8%	Falls 91 or 12.4%

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	1501	Falls 424 or 28.3%	Struck By/Striking 242 or 16.1%	Sports & Recreation 152 or 10.1%
44608	38	Falls 12 or 31.6%	Wheeled Sports 6 or 15.8%	Cut by Sharp Object/ Wheeled Sports 4 or 10.5%
44613	51	Falls 10 or 19.6%	Struck By/Striking 9 or 17.7%	Wheeled Sports 6 or 11.8%
44614	123	Falls 31 or 25.2%	Overexertion 15.5%	Struck By/Striking and Sports & Recreation 18 or 14.6%
44626	89	Falls 27 or 30.3%	Struck By/Striking 16 or 18.0%	Motor Vehicle and Sports & Recreation 11 or 12.4%
44630	0	—	—	—
44632	57	Falls 20 or 35.1%	Sports & Recreation 9 or 15.8%	Struck By/Striking 8 or 14.0%
44641	392	Falls 109 or 28.5%	Struck By/Striking 68 or 17.4%	Sports & Recreation 59 or 15.5%
44643	89	Falls 20 or 22.5%	Struck By/Striking 14 or 15.7%	Sports & Recreation 13 or 14.6%
44646	1,245	Falls 375 or 30.1%	Struck By/Striking 209 or 16.8%	Sports & Recreation 98 or 7.9%
44647	473	Falls 120 or 25.4%	Struck By/Striking 82 or 17.3%	Motor Vehicle 52 or 11.0%
44648	3	Falls, Foreign Body and Struck By/Striking 1 or 33.3%	—	—
44650	0	—	—	—

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	3	Falls 3 or 100%	—	—
44657	308	Falls 88 or 28.6%	Struck By/Striking 45 or 14.6%	Motor Vehicle 41 or 13.3%
44662	192	Falls 49 or 25.5%	Struck By/Striking 26 or 13.5%	Sports & Recreation 25 or 13.0%
44666	57	Falls 22 or 38.6%	Struck By/Striking 11 or 19.3%	Motor Vehicle and Overexertion 5 or 8.8%
44669	35	Falls 14 or 40.0%	Motor Vehicle 5 or 14.3%	Wheeled Sports, Struck By/Striking and Sports & Recreation 4 or 11.4%
44670	11	Falls and Struck By/Striking 4 or 36.4%	Overexertion 2 or 18.2%	Poisoning 1 or 9.1%
44685	72	Falls 19 or 26.4%	Struck By/Striking 9 or 12.5%	Motor Vehicle and Sports & Recreation 8 or 11.1%
44688	82	Falls 15 or 18.3%	Struck By/Striking 14 or 17.1%	Motor Vehicle 11 or 13.4%
44689	9	Falls and Struck By/Striking 3 or 33.3%	Wheeled Sports, Overexertion and Sports & Recreation 1 or 11.1%	—
44701	17	Falls 5 or 29.4%	Generic Accident 3 or 17.7%	Wheeled Sports, Cut By Sharp Object and Overexertion 2 or 11.8%
44702	20	Falls and Struck By/Striking 6 or 30.0%	Sports & Recreation 2 or 10.0%	Motor Vehicle, Wheeled Sports, Animal Related, Machinery, Cut By Sharp Object and Overexertion 1 or 5.0%
44703	328	Falls 103 or 31.4%	Struck By/Striking 52 or 15.9%	Animal Related 27 or 8.2%

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	148	Falls 46 or 31.3%	Struck By/Striking 24 or 16.2%	Sports & Recreation 17 or 11.5%
44705	733	Falls 247 or 33.7%	Struck By/Striking 114 or 15.6%	Overexertion 60 or 8.2%
44706	653	Falls 193 or 29.6%	Struck By/Striking 111 or 17.0%	Overexertion and Sports & Recreation 71 or 10.9%
44707	449	Falls 138 or 30.7%	Struck By/Striking 68 or 15.1%	Overexertion 10.7%
44708	560	Falls 165 or 29.5%	Struck By/Striking 107 or 19.1%	Sports & Recreation 55 or 9.8%
44709	309	Falls 115 or 37.2%	Struck By/Striking 44 or 14.2%	Sports & Recreation 30 or 9.7%
44710	353	Falls 114 or 32.3%	Struck By/Striking 64 or 18.1%	Sports & Recreation 35 or 9.9%
44714	168	Falls 54 or 32.1%	Struck By/Striking 28 or 16.7%	Motor Vehicle 20 or 11.9%
44718	96	Falls 38 or 39.6%	Sports & Recreation 17 or 17.7%	Struck By/Striking 16 or 16.7%
44720	318	Falls 100 or 31.5%	Struck By/Striking 46 or 14.5%	Motor Vehicle 41 or 12.9%
44721	136	Falls 43 or 31.6%	Motor Vehicle 18 or 12.2%	Struck By/Striking 17 or 12.5%
44730	142	Falls 36 or 25.4%	Struck By/Striking 24 or 16.9%	Motor Vehicle 21 or 14.8%
44735	2	Animal Related and Sports & Recreation 1 or 50.0%	————	————

Significant Findings

- The 44685 had the lowest injury rate, followed by 44632, 44720 and 44718 (see page 11 for specific areas).
- Children ages 6, 7 and 9 had the lowest injury rate.
- The following zip codes have a lower rate of injury than the county average: 44608, 44613, 44614, 44632, 44641, 44662, 44666, 44669, 44685, 44688, 4468, 44709, 44714, 44718, 44720, 44721 (see pages 10 and 11 for a description of the zip code locations).
- The following ages have a lower rate of injury than the county average: 0, 4, 5, 6, 7, 8, 9, 10, 11 and 12 (see page 6).
- African American children were overrepresented in the following risk areas: *Motor Vehicle*, *Cut by Sharp Object*, *Abuse/Assault/Neglect* and *Burns*. (This group represents a larger percentage of these injuries compared to their percentage of the total population)
- Caucasian children were overrepresented in the following areas: *Motor Vehicle* and *Wheeled Sports*. (This group represents a larger percentage of these injuries compared to their percentage of the total population)
- Males suffered more injuries than females in all injury types except for *Motor Vehicle* and *Poisoning*.
- The majority of the *Wheeled Sports* injuries were bicycle related. Approximately 55% of the *Wheeled Sport* injuries were suffered by children ages 10 to 14 (middle school age).
- Dog bites accounted for 46% of the *Animal Related* injuries.
- The top 2 (of 13) most occurring injuries, *Falls* and *Struck By/Striking*, accounted for approximately 46% of all injuries.
- Children age 13-17 account for more *Sports & Recreation* injuries than all other ages combined.
- There is a dramatic increase in injuries in *Motor Vehicle* injuries for children age 16 and 17.
- Males account for more than double the number of *Wheeled Sports* injuries than females.
- Children ages 13 to 17 account for more *Abuse, Assault, and Neglect* injuries than all other ages combined.
- The following were the identified activities for the *Sports & Recreation* category: Football, Basketball, Baseball, Wrestling, Snowboarding, Soccer, Softball, Gymnastics, Volleyball, Skiing, Lacrosse, Sledding, Kickball, Track, Trampoline and Water Skiing.

Recommendations

- Work with organizations (hospitals, school districts, etc) in the 44601 zip code to identify possible interventions to decrease the injury rate. Create an updated sub-report specifically for the 44601 zip code, analyzing injuries that occur.
- Continue to 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).
- 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.
- Develop and provide more information to 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.

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.

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 2,400 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 3,000 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 2,300 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 1,500 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 4,000 students have been reached by this program.

Safe Kids Day

- Each year, a free interactive safety fair is held in a selected community. Children have the opportunity to participate in safety activities (provided by community organizations) and receive educational resources.
- Over 4,000 children have been reached by this program.

Sports Safety

- Provides free training to youth league coaches regarding injury prevention and treatment.

Injury Prevention Seminar

- Host annual Injury Prevention Seminar for Physicians, Nurses, EMS Providers, Athletic Trainers & Health Educators. Topics have included general injury prevention and sports safety.

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
3951 Convenience Circle NW
Canton, Ohio 44718
330-493-9904 x 282
www.starkhealth.org/safekids