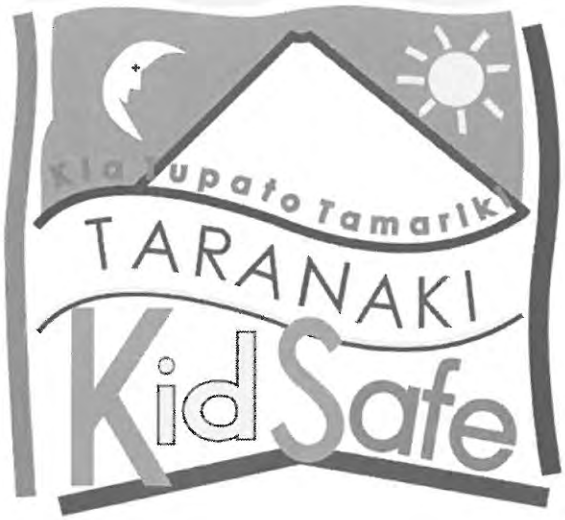
KIDSAFE TARANAKI TRUST

Data Sub-Group Report

Analysis of Paediatric Hospital Admissions for Unintentional Injury in Taranaki 2009-2011



Compiled and written by

Dr Stephen Butler
Paediatrician
Taranaki District Health Board

INTRODUCTION 3
METHODS 3
RESULTS AND DISCUSSION 3
SUMMARY 3
MECHANISM 5
LOCATION 7
GENDER 8
ETHNICITY 10
RESIDENCE 12
SPECIALTY 13
LENGTH OF STAY 14
ACTIVITY 14
0-4 YEAR OLDS 17
SUMMARY 17
5-9 YEAR OLDS 22
SUMMARY 22
10-14 YEAR OLDS 27
SUMMARY 27

INTRODUCTION

METHODS

RESULTS AND DISCUSSION

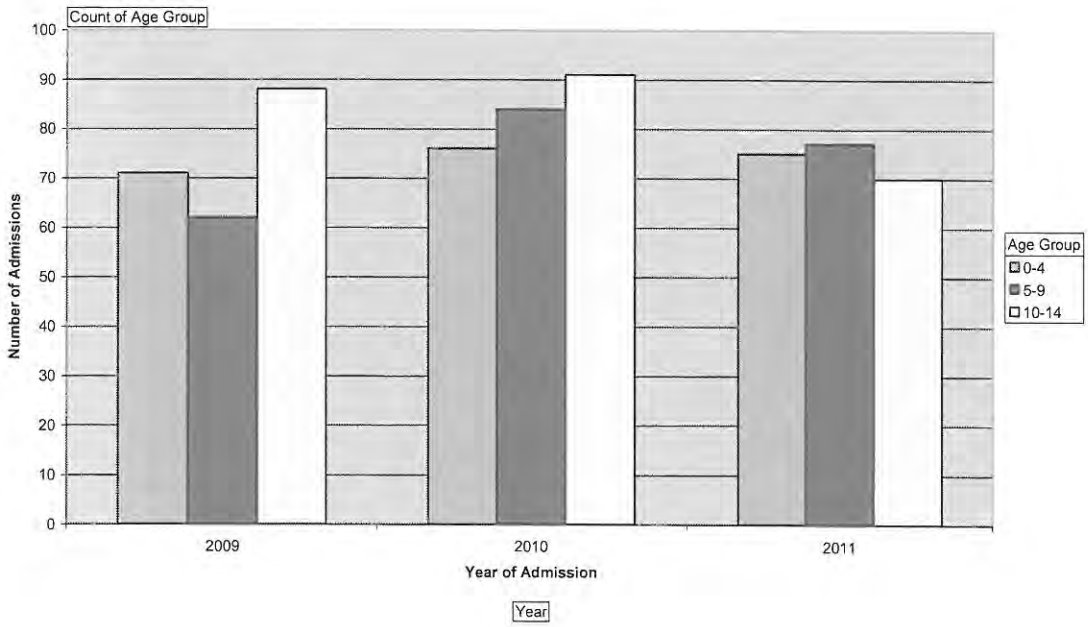
SUMMARY

The total number of paediatric admissions for unintentional injury in Taranaki over the three year period 2009-2011 was 694, breaking down to 221 in 2009, 251 in 2010 and 222 in 2011. The figures below show the total number of hospital admissions for each year, by age group. During the three year period, paediatric admissions for unintentional injury where relatively evenly distributed over the three age groups of 0-4 years, 5-9 years and 10-14 years with close to one third in each group. There were slightly more in the 10-14 year age group (35.88% of admissions), this was most evident in 2009. Over the three years the numbers in the 0-4 year age group stayed relatively stable. There was a lower number in the 5-9 year age group in 2009 and a lower number in the 10-14 year age group in 2011.

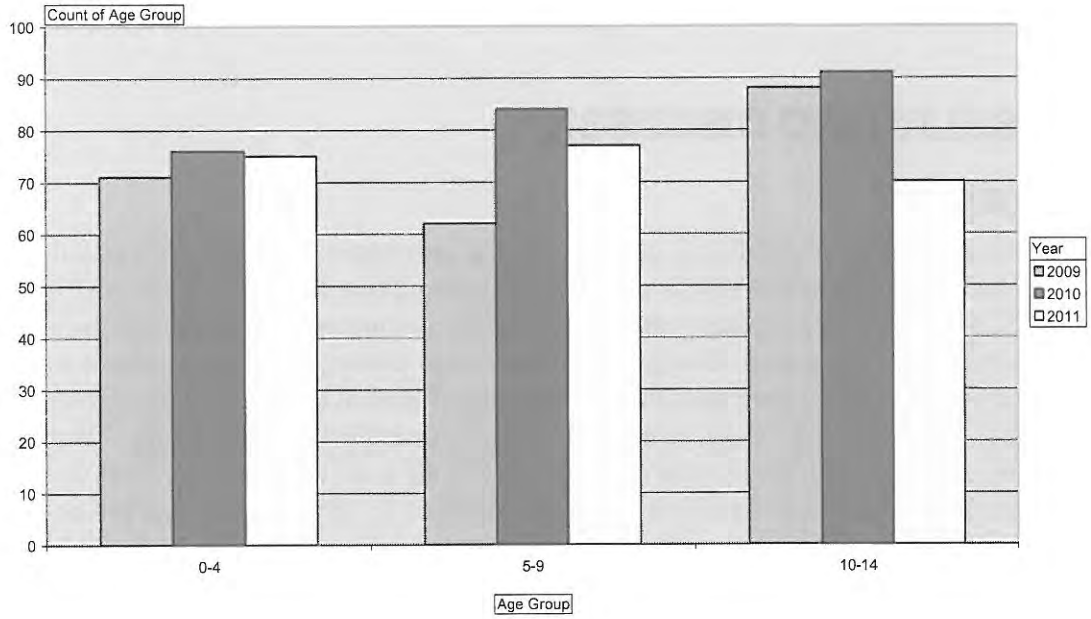
Table 1: Total number of admissions by year and age group

Count of Age Group	Year				
Age Group	2009	2010	2011	Grand Total	
0-4	71	76	75	222	31.99%
5-9	62	84	77	223	32.13%
10-14	88	91	70	249	35.88%
Grand Total	221	251	222	694	100.00%

Graph 1: Total number of admissions by year and age group

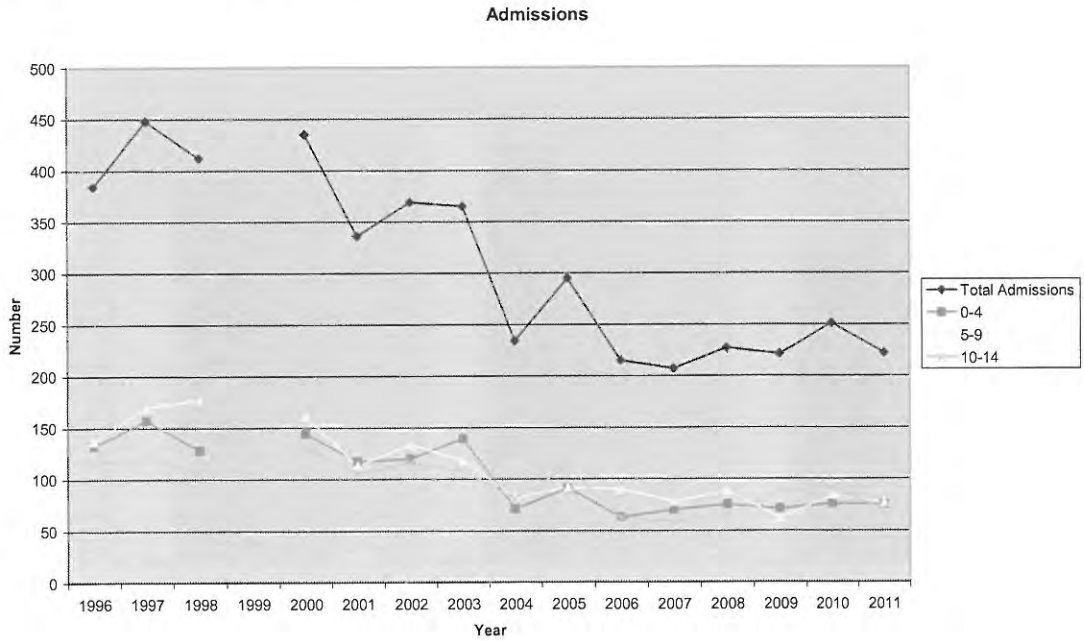


Graph 2:Total number of admissions by age group and year

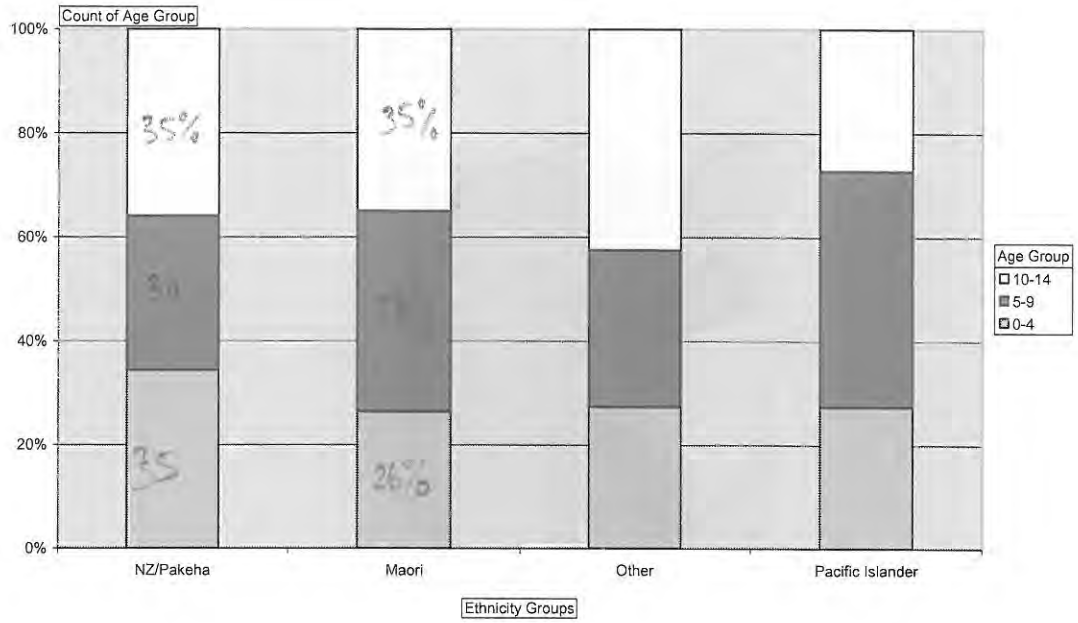


Overall there has been a decline in admissions since 1996. This decline in admissions occurred during the 2000-2006 period with a slight rise in the number of admissions since 2006. Data for 1999 is missing. The decline is seen evenly across all age groups.

Graph 3: Admissions 1996-2011



Graph 4: Percentage of age group in each ethnitcity



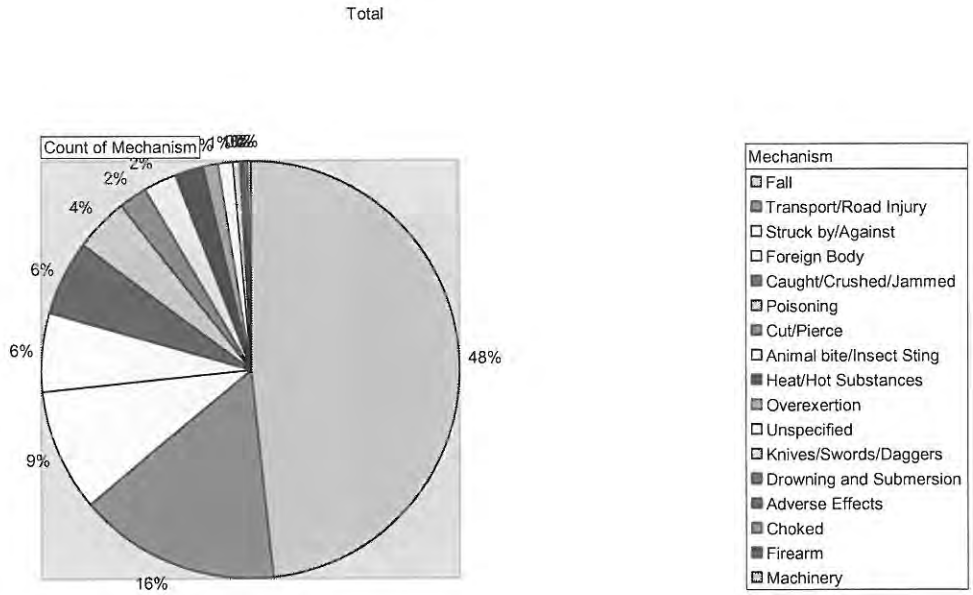
MECHANISM

The table below shows the total number and percentage of paediatric admissions by mechanism; or cause of the injury. 'Falls' was the mechanism of injury in nearly half the cases, with 336 of the 694 admissions (or 48.41%). The second largest category is 'Transport/Road Injury' (15.56%), followed by 'Struck By/Against/Thrown' (9.37%) and 'Foreign Body' (6.2%).

Table 2: Total number of admissions by mechanisms and year

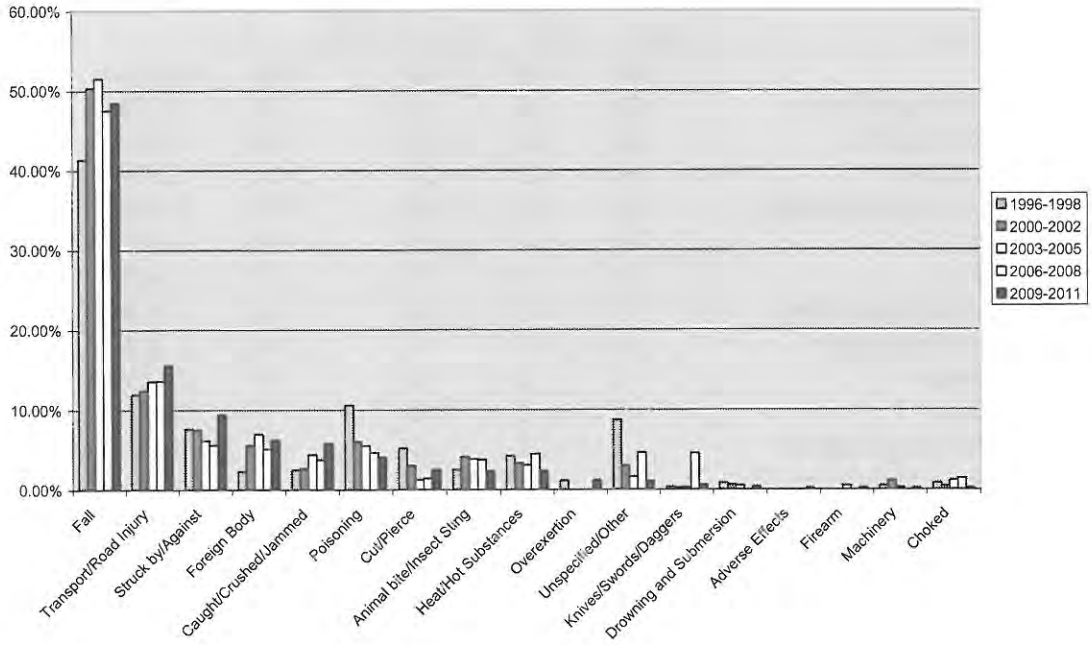
Count of Mechanism	Year				
Mechanism	2009	2010	2011	Grand Total	
Fall	106	129	101	336	48.41%
Transport/Road Injury	39	35	34	108	15.56%
Struck by/Against	18	25	22	65	9.37%
Foreign Body	11	13	19	43	6.20%
Caught/Crushed/Jammed	17	13	10	40	5.76%
Poisoning	8	8	12	28	4.03%
Cut/Pierce	9	6	2	17	2.45%
Animal bite/Insect Sting	3	8	5	16	2.31%
Heat/Hot Substances	4	6	6	16	2.31%
Overexertion	1	2	5	8	1.15%
Unspecified	3	1	3	7	1.01%
Knives/Swords/Daggers		2	2	4	0.58%
Drowning and Submersion		1	1	2	0.29%
Adverse Effects		1		1	0.14%
Firearm	1			1	0.14%
Machinery	1			1	0.14%
Choked		1		1	0.14%
Grand Total	221	251	222	694	100.00%

Graph 5: Mechanism 2009-2011



Since 1996 'Falls' has consistently been the leading cause of admissions, usually around half of all admissions. The second most common cause of admission has been 'Transport/Road Injury' with 12-15% of admissions. The next most common causes have been 'Struck By/Against/Thrown', 'Foreign Body' and 'Poisoning'. There has been a gradual increase in the percentage of admissions due to 'Transport/Road Injury' from 11.89% in 1996-1999 to 15.56% in 2009-2011 and a decline in 'Poisoning' from 10.53% in 1996-1999 to 4.03% in 2009-2011.

Graph 6: Mechanism and year group



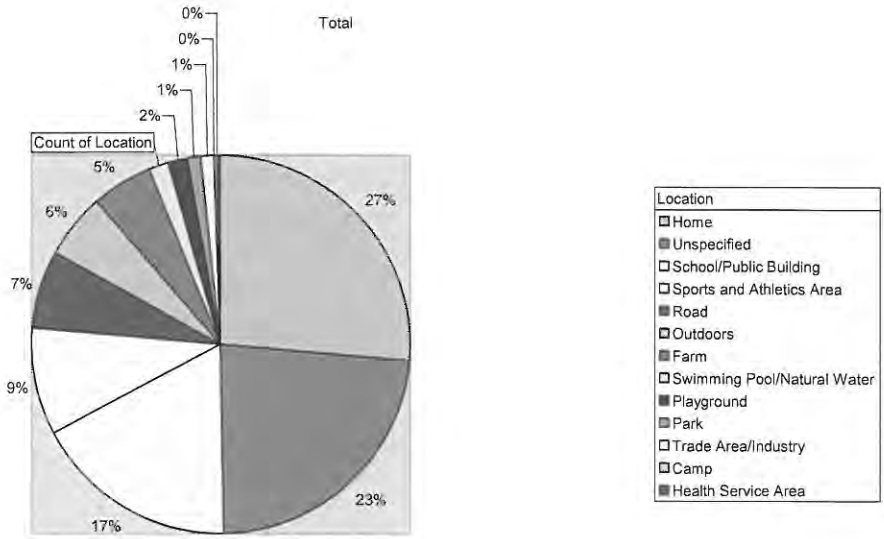
LOCATION

The home is the most common site for serious unintentional injuries to occur, this finding echoes those of previous reports. During the three-year-period a total of 184 children aged between 0-14 were admitted for injuries that occurred in the home, which accounts for 26.5% of the total admissions. Unspecified remains a large proportion of location data at 23.34%. Injury location continues to be poorly recorded in admission notes. School/Public Building is the third most common location with 121 admissions, 17.44%.

Table 3: Total number of admissions by location and year

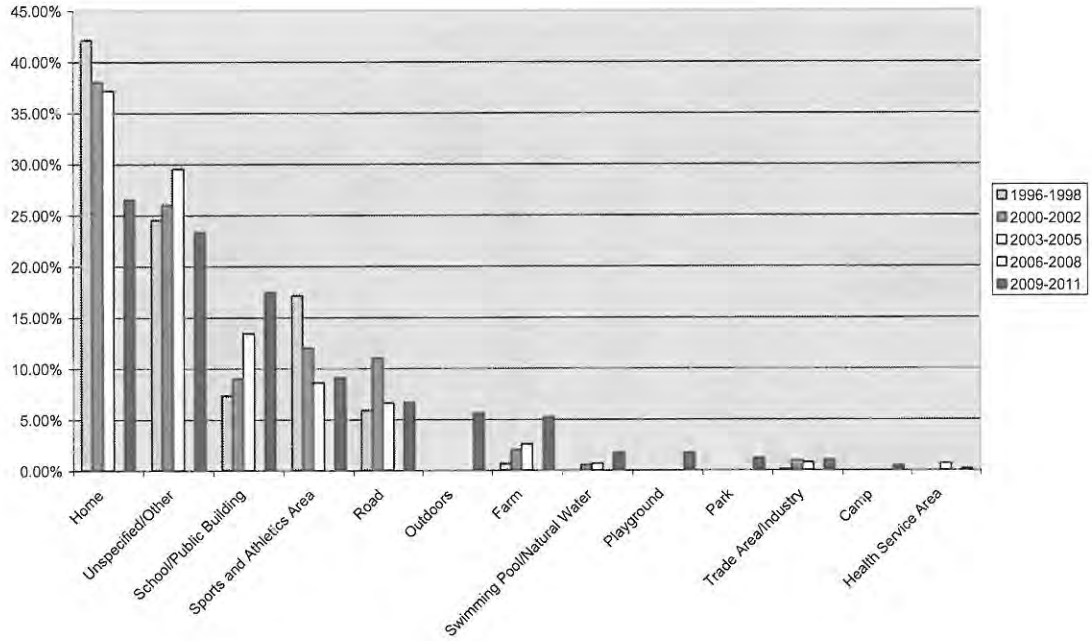
Count of Location	Year				
Location	2009	2010	2011	Grand Total	Percentage
Home	59	59	66	184	26.51%
Unspecified	58	55	49	162	23.34%
School/Public Building	33	56	32	121	17.44%
Sports and Athletics Area	21	25	17	63	9.08%
Road	10	15	21	46	6.63%
Outdoors	10	15	14	39	5.62%
Farm	18	11	7	36	5.19%
Swimming Pool/Natural Water	2	3	7	12	1.73%
Playground	1	6	5	12	1.73%
Park	3	2	3	8	1.15%
Trade Area/Industry	5	1	1	7	1.01%
Camp	1	2		3	0.43%
Health Service Area		1		1	0.14%
Grand Total	221	251	222	694	100.00%

Graph 7: Location 2009-2011



Since 1996 the most common location for injury has been the home, followed by 'Unspecified', school/public buildings, sports and recreational areas and roads. Unfortunately location data was not recorded for the 2006-2008 period. There has been a steady decline in the number of injuries occurring at home from 42.12% in 1996-1999 to 26.51% in 2009-2011. This has been balanced by an increase in injuries occurring in school/public buildings.

Graph 8: Location and year group



GENDER

The table below shows mechanism by gender across all age groups spanning the 3-year period. This table clearly shows that boys are consistently more likely than girls to incur an unintentional injury, with the exception of 'Caught/Crushed/Jammed' – echoing findings in the previous reports. In total, boys account for 61.10% of all admissions. This may indicate that boys indulge in more risk taking behaviours than girls, or may show that injuries they sustain are more likely to be serious enough to require hospitalisation. Regardless, it is a finding that reiterates previous reports' statements regarding focusing injury prevention strategies on reaching boys. Gender data was not recorded in the 1996-1998 report.

Table 4: Mechanism and gender

	Gender		
Mechanism	M	F	Grand Total
Fall	188 44.34%	148 54.81%	336 48.41%
Transport/Road Injury	75 17.69%	33 12.22%	108 15.56%
Struck by/Against	53 12.50%	12 4.44%	65 9.37%
Foreign Body	23 5.42%	20 7.41%	43 6.20%
Caught/Crushed/Jammed	17 4.01%	23 8.52%	40 5.76%
Poisoning	16 3.77%	12 4.44%	28 4.03%
Cut/Pierce	15 3.54%	2 0.74%	17 2.45%
Animal bite/Insect Sting	8 1.89%	8 2.96%	16 2.31%
Heat/Hot Substances	12 2.83%	4 1.48%	16 2.31%
Overexertion	3 0.71%	5 1.85%	8 1.15%
Unspecified	6 1.42%	1 0.37%	7 1.01%
Knives/Swords/Daggers	3 0.71%	1 0.37%	4 0.58%
Drowning and Submersion	2 0.47%	 0.00%	2 0.29%
Adverse Effects	 0.00%	1 0.37%	1 0.14%
Choked	1 0.24%	 0.00%	1 0.14%
Firearm	1 0.24%	 0.00%	1 0.14%
Machinery	1 0.24%	 0.00%	1 0.14%
Total Count	424	270	694
Total Percentage	100.00%	100.00%	100.00%

Table 5: Gender 1996-2001

	1996-1998	2000-2002	2003-2005	2006-2008	2009-2011
Male		59.3%	58.4%	62.4%	61.1%
Female		40.7%	41.6%	37.6%	38.9%

ETHNICITY

The table below shows the total number and percentage of paediatric unintentional injury admissions by mechanism and ethnicity. The majority of admissions are children in the 'New Zealander / Pakeha' category, constituting 70.17% of the data, followed by 'Maori' with 23.49%, 'Other' with 4.76%, and 'Pacific Islander' with 1.59%. The percentages of each ethnic group of the Taranaki population are also given below, as according to the Census 2006 Statistics. The limitations of using this information from Census are two-fold; firstly the percentages provided by Census are for the entire Taranaki population therefore it is not entirely accurate for us to make direct comparisons given that our target group are the 0-14 year olds. Also the census allowed for individuals to indicate belonging to more than one ethnic group, whereas the ICD-10 codes do not.

Ethnicity data was not recorded in the 1996-1998 report. There has been a gradual increase in the proportion of Maori admitted with unintentional injury since 2000 from 18% in 2000-2002 to 23.49% in 2009-2011. There has also been an increase in the proportion on NZ/Pakeha from 66% in 2000-2002 to 70.17% in 2009-2011, with a decline in the proportion of other ethnicities from 14% in 2000-2002 to 4.76% in 2009-2011.

Table 6: Ethnicity 1996-2011

	1996-1998	2000-2002	2003-2005	2006-2008	2009-2011
NZ/Pakeha		66%	63.65%	69.3%	70.17%
Maori		18%	21.59%	20.3%	23.49%
Pacific Islander		0.18%	0.89%	1.4%	1.59%
Asian		1%	1.23%	0.9%	
Other		14%	12.64%	8.0%	4.76%

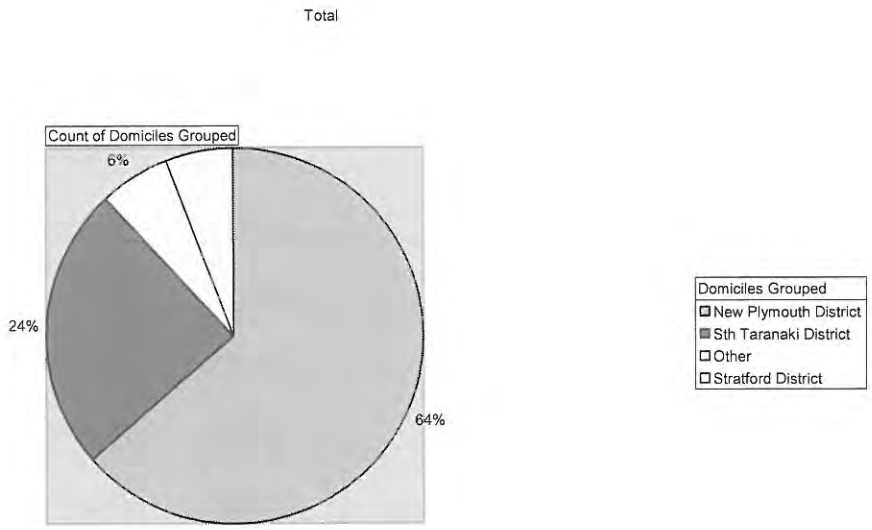
Table 7: Mechanism and Ethnicity 2009-2011

		Ethnicity Groups				
Mechanism	Data	Maori	NZ/Pakeha	Other	Pacific Islander	Grand Total
Fall	Count of Mechanism	83	228	19	6	336
	Count of Mechanism2	24.70%	67.86%	5.65%	1.79%	100.00%
Transport/Road Injury	Count of Mechanism	19	81	5	3	108
	Count of Mechanism2	17.59%	75.00%	4.63%	2.78%	100.00%
Struck by/Against	Count of Mechanism	15	48	2		65
	Count of Mechanism2	23.08%	73.85%	3.08%	0.00%	100.00%
Foreign Body	Count of Mechanism	11	31	1		43
	Count of Mechanism2	25.58%	72.09%	2.33%	0.00%	100.00%
Caught/Crushed/Jammed	Count of Mechanism	12	25	3		40
	Count of Mechanism2	30.00%	62.50%	7.50%	0.00%	100.00%
Poisoning	Count of Mechanism	6	21		1	28
	Count of Mechanism2	21.43%	75.00%	0.00%	3.57%	100.00%
Cut/Pierce	Count of Mechanism	5	11	1		17
	Count of Mechanism2	29.41%	64.71%	5.88%	0.00%	100.00%
Animal bite/Insect Sting	Count of Mechanism	3	11	1	1	16
	Count of Mechanism2	18.75%	68.75%	6.25%	6.25%	100.00%
Heat/Hot Substances	Count of Mechanism	3	12	1		16
	Count of Mechanism2	18.75%	75.00%	6.25%	0.00%	100.00%
Overexertion	Count of Mechanism	1	7			8
	Count of Mechanism2	12.50%	87.50%	0.00%	0.00%	100.00%
Unspecified	Count of Mechanism	2	5			7
	Count of Mechanism2	28.57%	71.43%	0.00%	0.00%	100.00%
Knives/Swords/Daggers	Count of Mechanism	3	1			4
	Count of Mechanism2	75.00%	25.00%	0.00%	0.00%	100.00%
Drowning and Submersion	Count of Mechanism		2			2
	Count of Mechanism2	0.00%	100.00%	0.00%	0.00%	100.00%
Adverse Effects	Count of Mechanism		1			1
	Count of Mechanism2	0.00%	100.00%	0.00%	0.00%	100.00%
Choked	Count of Mechanism		1			1
	Count of Mechanism2	0.00%	100.00%	0.00%	0.00%	100.00%
Firearm	Count of Mechanism		1			1
	Count of Mechanism2	0.00%	100.00%	0.00%	0.00%	100.00%
Machinery	Count of Mechanism		1			1
	Count of Mechanism2	0.00%	100.00%	0.00%	0.00%	100.00%
Total Count		163	487	33	11	694
Total Percentage		23.49%	70.17%	4.76%	1.59%	100.00%
% Ethnic Group in Taranaki (2006 Census)		15.76%	90.54%	2.39%	1.36%	

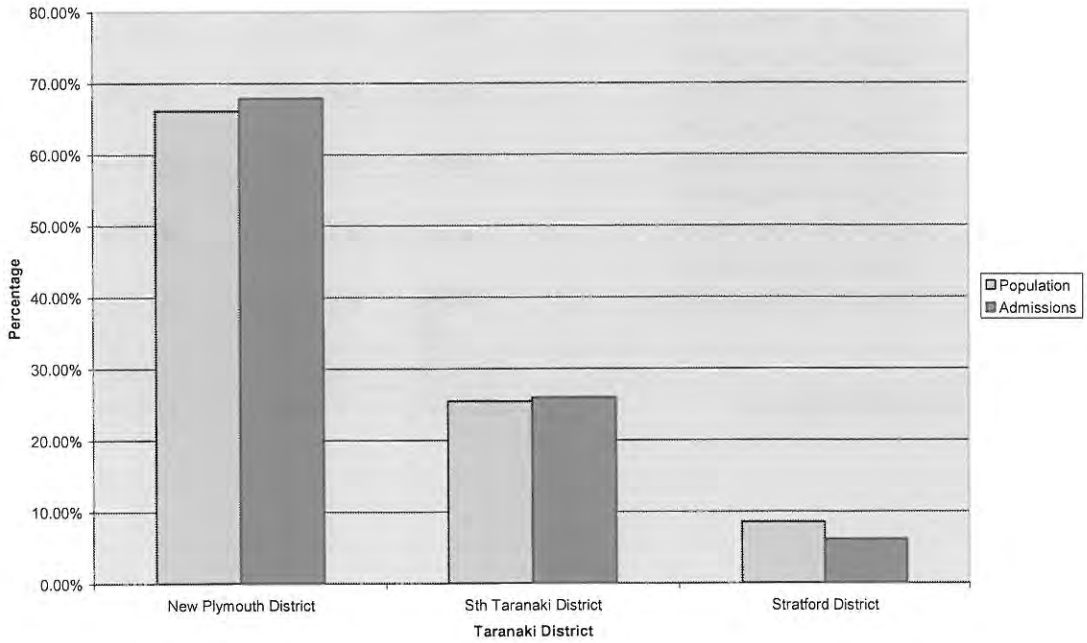
RESIDENCE

The following graph displays the reported residing district for those children between the ages on 0-14 years whom appear in this data over the three year period. 64% (442) admissions were from the New Plymouth District, 24% (169) from the South Taranaki District and 6% (40) from the Stratford District. These percentages are very close to the percentage populations of the Districts taken from the 2006 Census data.

Graph 9: Residence 2009-2011



Graph 10: Residence, Admissions and Population



Again data was not collected on Residence in the 1996-1998 report. Overall there has been little change in the residence data since 2000. There has been an increase in the percentage from the South Taranaki District from 21% in 2000-2002 to 24% in 2009-2011 and a decline in the percentage from the Stratford District from 9% in 2000-2002 to 6% in 2009-2011.

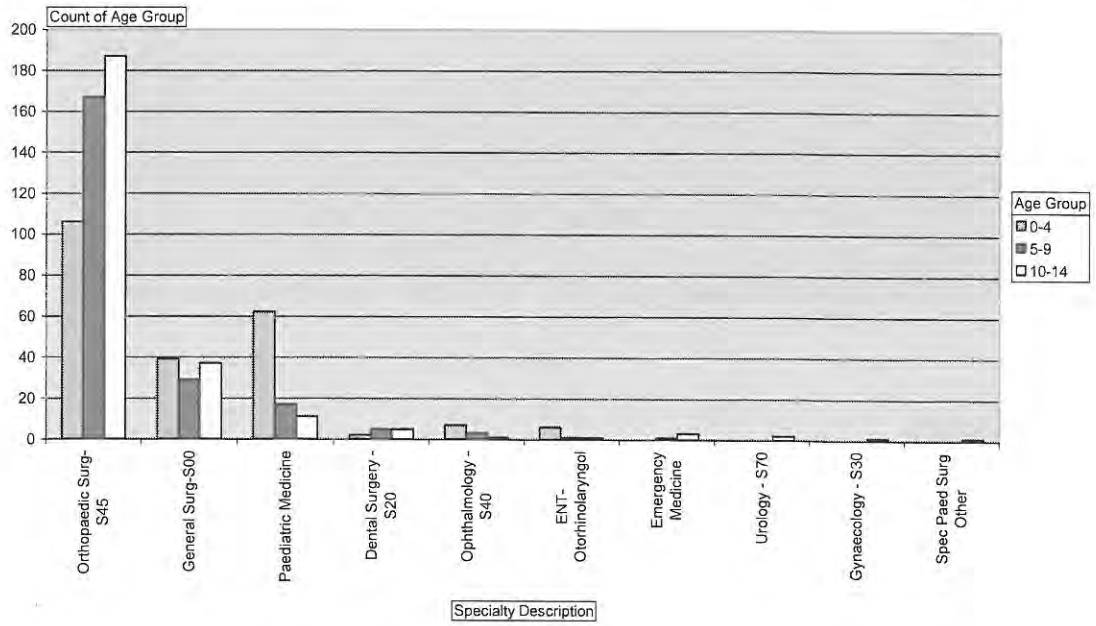
Table 8: Residence 1996-2011

	1996-1998	2000-2002	2003-2005	2006-2008	2009-2011
New Plymouth District		64%	68%	61%	64%
South Taranaki District		21%	21%	25%	24%
Stratford District		9%	7%	8%	6%
Other		6%	4%	6%	6%

SPECIALTY

Admitting speciality was not recorded in the previous reports. A much higher proportion of 10-14 year olds where admitted under the Orthopaedic team (75%) compared with 0-4 years olds (48%). However the Orthopaedic team where still the most common admitting team for all age groups indicating that most of the injuries where for fractures of limb injuries. Most of the admissions under the Paediatric team where for the 0-4 year old age group.

Graph 11: Admitting Speciality and age group 2009-2011



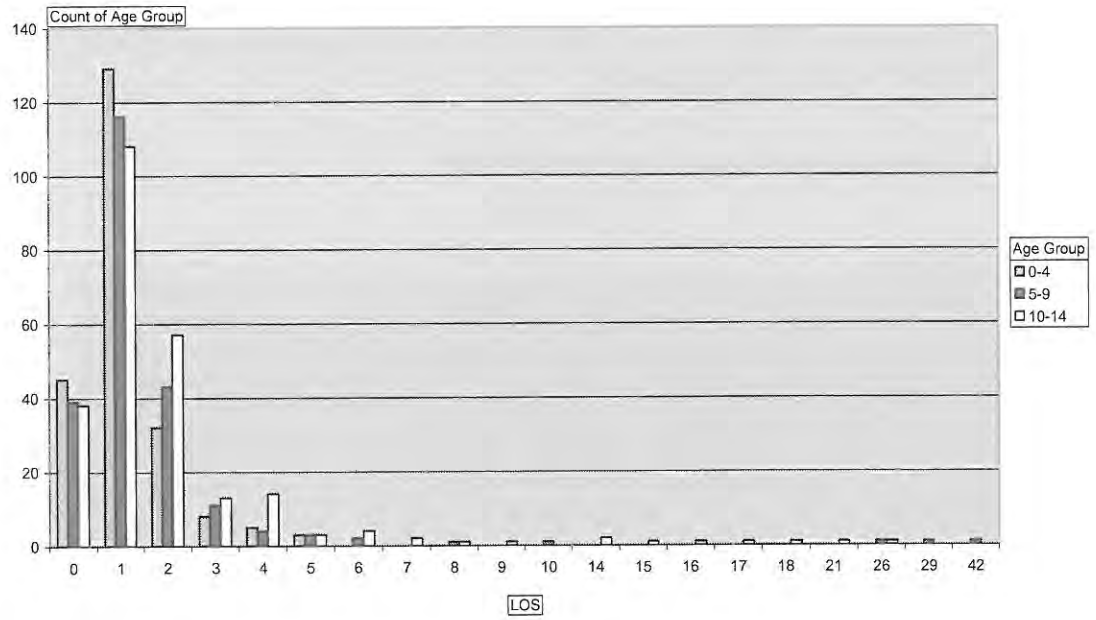
LENGTH OF STAY

The older age groups had a longer length of stay, as show by Table 9 below. This likely due to the fact that older children are more likely to be involved in high energy injuries and sustain more serious injuries. The majority of admissions where short, either 0, 1 or 2 days, this accounts for 87.5% of all admissions. The longest admission was 42 days.

Table 9: Length of stay and age group 2009-2011

Total nights in Hospital			
Age Group	Total 'Nights' in Hospital	% of Total 'Nights'	% of Admissions
0-4	252	21.48%	31.99%
5-9	393	33.50%	32.13%
10-14	528	45.01%	35.88%
Total	1173	100.00%	100.00%

Graph 12: Number of days admitted and age group 2009-2011



ACTIVITY

This data emphasises how poorly recorded 'Activity' continues to be, with 168 of the 694 (24.2%) admissions receiving the 'Unspecified activity' code. This is however a vast improvement on the 2002-2005 report when this data was first recorded, in that report 80.7% of admissions where coded as unspecified or other. The improved data is possible by reviewing all the admission noted to confirm the activity that the individual was doing when they where injured. The most common activity categories are Unspecified (24.21%), Playing (19.16%) and playing on playground equipment (12.68%)

Table 10: Total number of admissions by activity and year

Count of Acitvity	Year				
Acitvity	2009	2010	2011	Grand Total	
Unspecified	50	60	58	168	24.21%
Playing	41	42	50	133	19.16%
Playground Equipment	28	43	17	88	12.68%
Cycling	17	18	13	48	6.92%
Scootering/Roller Skating/ Rollerblading/Skateboarding	10	14	16	40	5.76%
Trampoline	15	11	11	37	5.33%
Motorcycling	15	8	9	32	4.61%
Rugby/Rugby League/Touch Rugby	5	16	8	29	4.17%
Running	3	7	3	13	1.87%
Passenger	3	2	7	12	1.73%
Climbing Tree	1	7	3	11	1.59%
While Resting Sleeping Eating or Engaging in Other Vital Activities	5	2	3	10	1.44%
Horse Riding	2	2	6	10	1.44%
Pedestrian	2	5	3	10	1.44%
Flying Fox	5	2	2	9	1.30%
While Engaged in Other Types of Work	3	1	3	7	1.01%
Go-carting	1	2	2	5	0.72%
Swimming		3	2	5	0.72%
While Engaged in Leisure	1	2		3	0.43%
Cooking	3			3	0.43%
Exercising		2	1	3	0.43%
Infant Being Carried	2	1		3	0.43%
Gymnastics	1		1	2	0.29%
Netball		1	1	2	0.29%
Soccer	1		1	2	0.29%
Surfing	2			2	0.29%
Walking	1		1	2	0.29%
Kick-Boxing	1			1	0.14%
Paintball	1			1	0.14%
Skiing	1			1	0.14%
Water Skiing			1	1	0.14%
Dodgeball	1			1	0.14%
Grand Total	221	251	222	694	100.00%

Activity data has only been recorded in one previous report, 2000-2002. In this report the vast majority of the injuries where recorded as unspecified or other activity. This makes comparison with the current years impossible.

Table 11: Activity 1996-2011

	1996-1998	2000-2002	2003-2005	2006-2008	2009-2011
Unspecified/Other			80.64%		24.21%
Playing					19.16%
Playground Equipment					12.68%
Cycling					6.92%
Scootering/Roller Skating/ Rollerblading/Skateboarding			0.34%		5.76%
Trampoline					5.33%
Motorcycling					4.61%
Rugby/Rugby League/Touch Rugby			3.47%		4.17%
Running					1.87%
Passenger					1.73%
Climbing Tree					1.59%
While Resting Sleeping Eating or Engaging in Other Vital Activities			4.14%		1.44%
Horse Riding					1.44%
Pedestrian					1.44%
Flying Fox					1.30%
While Engaged in Other Types of Work			1.68%		1.01%
Go-carting					0.72%
Swimming					0.72%
While Engaged in Leisure			3.47%		0.43%
Cooking					0.43%
Exercising					0.43%
Infant Being Carried					0.43%
Gymnastics					0.29%
Netball			0.56%		0.29%
Soccer			0.45%		0.29%
Surfing					0.29%
Walking					0.29%
Kick-Boxing					0.14%
Paintball					0.14%
Skiing					0.14%
Water Skiing					0.14%
Dodgeball					0.14%
Hockey			0.67%		
Basketball			0.34%		
While Working for a Living			0.22%		
Other and unspecified sporting activity			3.91%		
Cricket			0.11%		

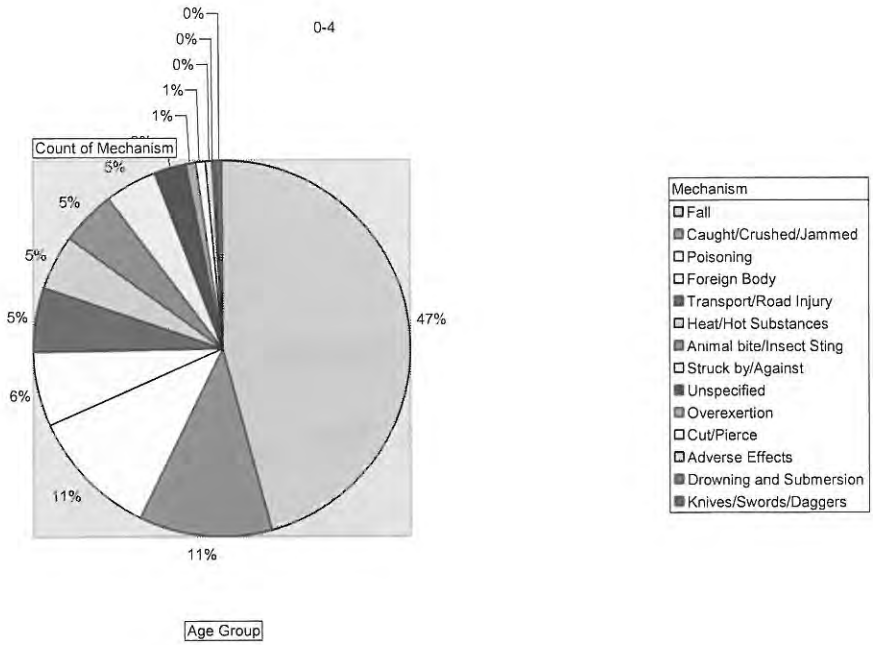
0-4 YEAR OLDS

SUMMARY

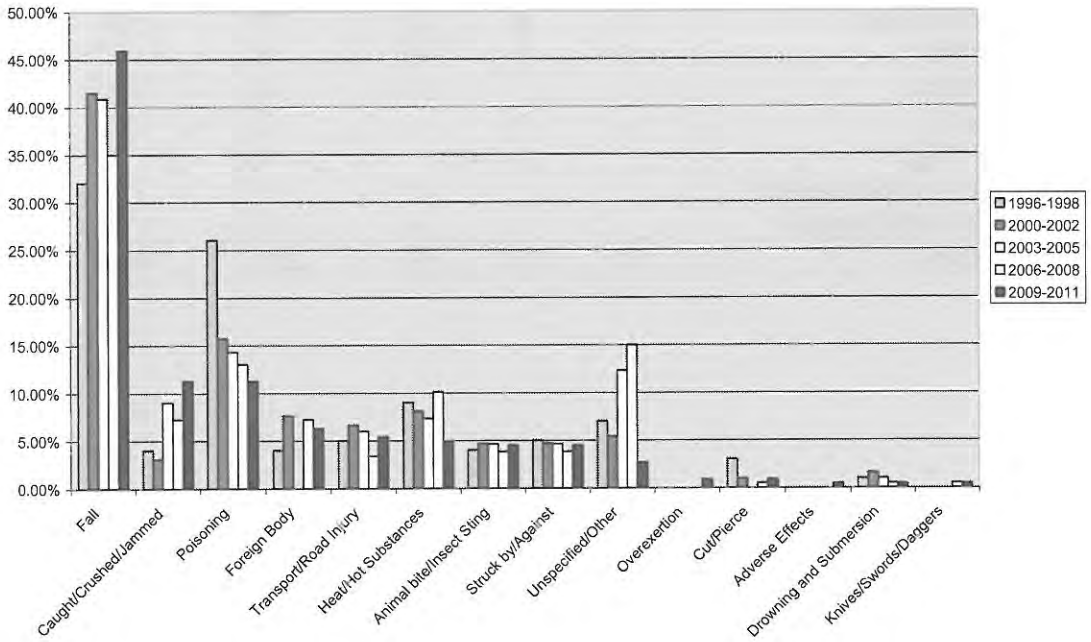
Table 12: Admissions of 0-4 year olds by Mechanism

Count of Mechanism	Age Group Year				
	0-4			0-4 Total	Grand Total
Mechanism	2009	2010	2011		
Fall	32	35	35	102	102
Caught/Crushed/Jammed	13	6	6	25	25
Poisoning	8	7	10	25	25
Foreign Body	2	5	7	14	14
Transport/Road Injury	4	5	3	12	12
Heat/Hot Substances	2	5	4	11	11
Animal bite/Insect Sting	2	5	3	10	10
Struck by/Against	4	4	2	10	10
Unspecified	3	1	2	6	6
Overexertion		1	1	2	2
Cut/Pierce	1	1		2	2
Adverse Effects		1		1	1
Drowning and Submersion			1	1	1
Knives/Swords/Daggers			1	1	1
Grand Total	71	76	75	222	222

Graph 13: Admissions of 0-4 year olds by Mechanism



Graph 14: 0-4 year olds, Mechanism and year group



Graph 15: Admissions of 0-4 year olds by Location

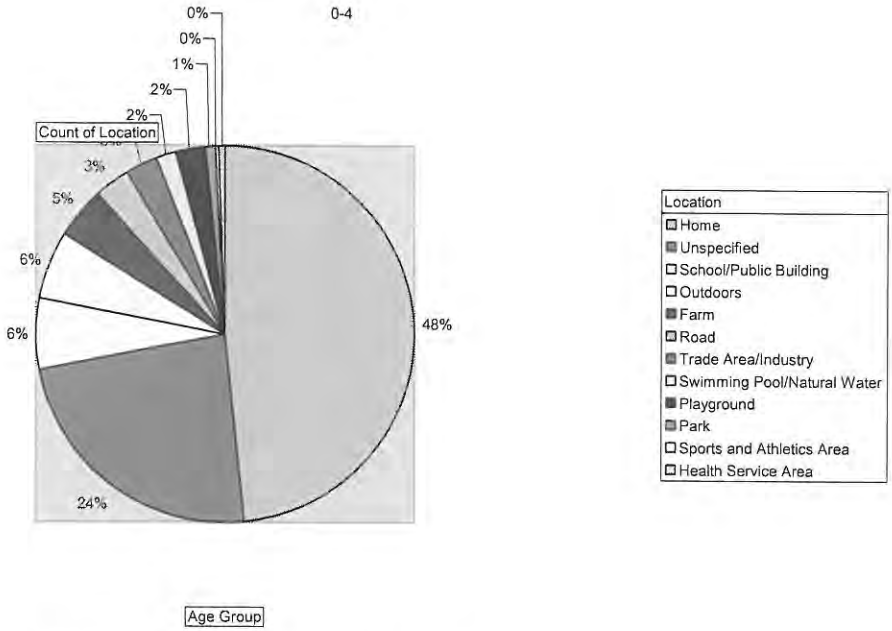


Table 13: Admissions of 0-4 year olds for falls, by Activity

Count of Acitvity	Mechanism	Age Group	Year			
	Fall				Fall Total	Grand Total
	0-4			0-4 Total		
Acitvity	2009	2010	2011			
Playing	6	11	15	32	32	3
Unspecified	9	13	9	31	31	3
Playground Equipment	7	6	3	16	16	1
Trampoline	5	4	3	12	12	1
While Resting Sleeping Eating or Engaging in Other Vital Activities	2		1	3	3	
Infant Being Carried	2	1		3	3	
Climbing Tree			1	1	1	
Horse Riding			1	1	1	
Scootering	1			1	1	
Exercising			1	1	1	
Walking			1	1	1	
Grand Total	32	35	35	102	102	10

Table 14: Admissions of 0-4 year olds for falls, by Location

Count of Location	Mechanism Age Group Year					
	Fall				Fall Total	Grand Total
	0-4			0-4 Total		
Location	2009	2010	2011			
Home	16	14	15	45	45	45
Unspecified	5	10	4	19	19	19
Outdoors	4	3	4	11	11	11
School/Public Building	2	3	5	10	10	10
Playground		2	2	4	4	4
Trade Area/Industry	3	1		4	4	4
Road	1		2	3	3	3
Swimming Pool/Natural Water		1	2	3	3	3
Park	1	1		2	2	2
Farm			1	1	1	1
Grand Total	32	35	35	102	102	102

Table 15: Admissions of 0-4 year olds for caught/crushed/jammed, by Activity

Count of Acitvity	Mechanism Age Group Year					
	Caught/Crushed/Jammed				Caught/Crushed/Jammed Total	Grand Total
	0-4			0-4 Total		
Acitvity	2009	2010	2011			
Playing	7	4	2	13	13	13
Unspecified	6	2	4	12	12	12
Grand Total	13	6	6	25	25	25

Table 16: Admissions of 0-4 year olds for caught/crushed/jammed, by Location

Count of Location	Mechanism Age Group Year					
	Caught/Crushed/Jammed				Caught/Crushed/Jammed Total	Grand Total
	0-4			0-4 Total		
Location	2009	2010	2011			
Home	6	3	4	13	13	13
Unspecified	3	1	2	6	6	6
Farm	3	1		4	4	4
School/Public Building		1		1	1	1
Trade Area/Industry	1			1	1	1
Grand Total	13	6	6	25	25	25

Table 17: Admissions of 0-4 year olds for poisoning, by Activity

Count of Acitvity	Mechanism Age Group Year					
	Poisoning				Poisoning Total	Grand Total
	0-4			0-4 Total		
Acitvity	2009	2010	2011			
Unspecified	4	5	5	14	14	14
Playing	4	2	5	11	11	11
Grand Total	8	7	10	25	25	25

Table 18: Admissions of 0-4 year olds for poisoning, by Location

Count of Location	Mechanism Age Group Year					
	Poisoning				Poisoning Total	Grand Total
	0-4			0-4 Total		
Location	2009	2010	2011			
Home	6	7	10	23	23	23
Farm	1			1	1	1
Trade Area/Industry	1			1	1	1
Grand Total	8	7	10	25	25	25

Table 19: Admissions of 0-4 year olds for foreign body, by Activity

Count of Acitvity	Mechanism Age Group Year					
	Foreign Body				Foreign Body Total	Grand Total
	0-4			0-4 Total		
Acitvity	2009	2010	2011			
Unspecified	1	2	6	9	9	9
Playing		3	1	4	4	4
While Resting Sleeping Eating or Engaging in Other Vital Activities	1			1	1	1
Grand Total	2	5	7	14	14	14

Table 20: Admissions of 0-4 year olds for foreign body, by Location

Count of Location	Mechanism Age Group Year					
	Foreign Body				Foreign Body Total	Grand Total
	0-4			0-4 Total		
Location	2009	2010	2011			
Unspecified	1	4	4	9	9	9
Home	1	1	1	3	3	3
Outdoors			1	1	1	1
Sports and Athletics Area			1	1	1	1
Grand Total	2	5	7	14	14	14

Table 21: Admissions of 0-4 year olds for transport/road injury, by Activity

Count of Acitvity	Mechanism Age Group Year					
	Transport/Road Injury				Transport/Road Injury Total	Grand Total
	0-4			0-4 Total		
Acitvity	2009	2010	2011			
Cycling	1	2	2	5	5	5
Motorcycling	1		1	2	2	2
Passenger	1	1		2	2	2
Pedestrian		2		2	2	2
Playing	1			1	1	1
Grand Total	4	5	3	12	12	12

Table 22: Admissions of 0-4 year olds for transport/road injury, by Location

Count of Location	Mechanism Age Group Year					
	Transport/Road Injury				Transport/Road Injury Total	Grand Total
	0-4			0-4 Total		
Location	2009	2010	2011			
Road		3	1	4	4	4
Farm	2	1		3	3	3
Unspecified	1	1	1	3	3	3
Home	1		1	2	2	2
Grand Total	4	5	3	12	12	12

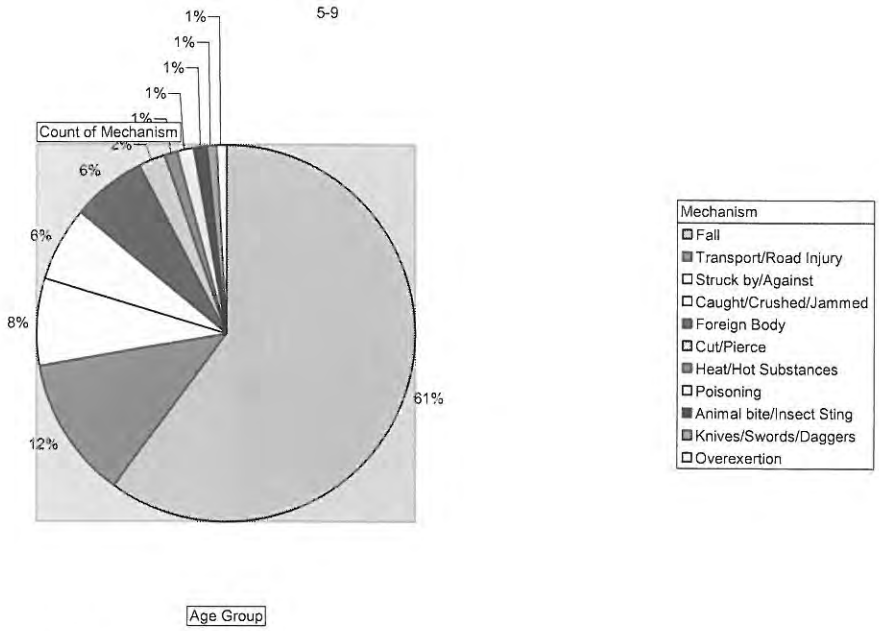
5-9 YEAR OLDS

SUMMARY

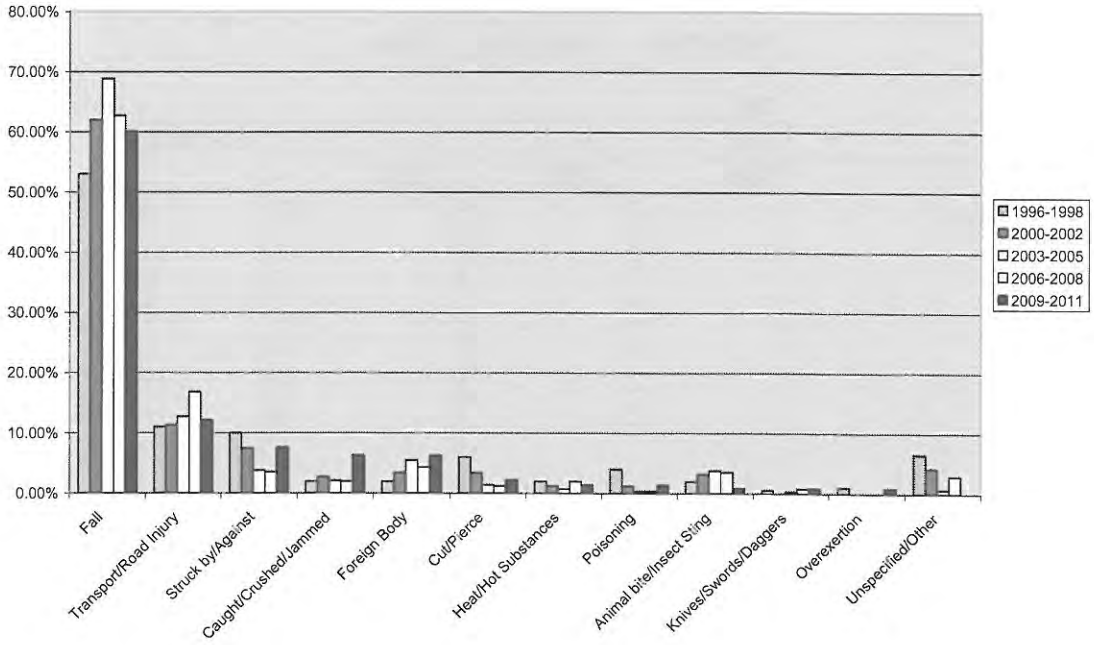
Table 23: Admissions of 5-9 year olds by Mechanism

Count of Mechanism	Age Group Year				
	5-9			5-9 Total	Grand Total
Mechanism	2009	2010	2011		
Fall	42	51	41	134	134
Transport/Road Injury	6	8	13	27	27
Struck by/Against	2	6	9	17	17
Caught/Crushed/Jammed	3	7	4	14	14
Foreign Body	5	4	5	14	14
Cut/Pierce	2	3		5	5
Heat/Hot Substances	2		1	3	3
Poisoning		1	2	3	3
Animal bite/Insect Sting		1	1	2	2
Knives/Swords/Daggers		2		2	2
Overexertion		1	1	2	2
Grand Total	62	84	77	223	223

Graph 16: Admissions of 5-9 year olds by Mechanism



Graph 17: 5-9 year olds, Mechanism and year group



Graph 18: Admissions of 5-9 year olds by Location

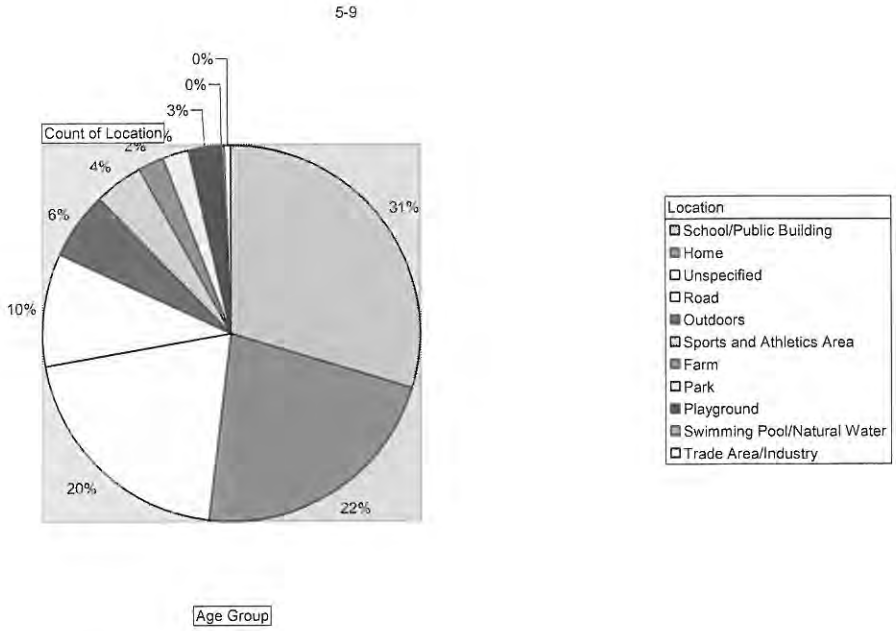


Table 24: Admissions of 5-9 year olds for falls, by Activity

Count of Acitvity	Mechanism	Age Group	Year			
	Fall				Fall Total	Grand Total
	5-9			5-9 Total		
Acitvity	2009	2010	2011			
Playground Equipment	17	28	13	58	58	58
Playing	3	6	4	13	13	13
Trampoline	7	1	3	11	11	11
Unspecified	8	1	2	11	11	11
Climbing Tree	1	7	1	9	9	9
Skateboarding	1	1	7	9	9	9
Flying Fox	2	1	2	5	5	5
Scootering		1	4	5	5	5
Roller Skating		3	1	4	4	4
Horse Riding	1	1	1	3	3	3
While Resting Sleeping Eating or Engaging in Other Vital Activities	1	1	1	3	3	3
Gymnastics			1	1	1	1
Rugby			1	1	1	1
Running	1			1	1	1
Grand Total	42	51	41	134	134	134

Table 25: Admissions of 5-9 year olds for falls, by Location

Count of Location	Mechanism Age Group Year					
	Fall				Fall Total	Grand Total
	5-9			5-9 Total		
Location	2009	2010	2011			
School/Public Building	10	31	16	57	57	57
Home	11	3	10	24	24	24
Unspecified	11	6	5	22	22	22
Outdoors	4	5	1	10	10	10
Playground	1	4	1	6	6	6
Road		1	4	5	5	5
Sports and Athletics Area	2		3	5	5	5
Park	2		1	3	3	3
Farm	1	1		2	2	2
Grand Total	42	51	41	134	134	134

Table 26: Admissions of 5-9 year olds for transport/road injury, by Activity

Count of Acitvity	Mechanism Age Group Year					
	Transport/Road Injury				Transport/Road Injury Total	Grand Total
	5-9			5-9 Total		
Acitvity	2009	2010	2011			
Cycling	5	5	4	14	14	14
Passenger	1		4	5	5	5
Pedestrian		2	3	5	5	5
Motorcycling		1	1	2	2	2
Go-carting			1	1	1	1
Grand Total	6	8	13	27	27	27

Table 27: Admissions of 5-9 year olds for transport/road injury, by Location

Count of Location	Mechanism Age Group Year					
	Transport/Road Injury				Transport/Road Injury Total	Grand Total
	5-9			5-9 Total		
Location	2009	2010	2011			
Road	5	5	7	17	17	17
Unspecified	1	1	3	5	5	5
Home		1	1	2	2	2
Outdoors			1	1	1	1
Sports and Athletics Area		1		1	1	1
Swimming Pool/Natural Water			1	1	1	1
Grand Total	6	8	13	27	27	27

Table 28: Admissions of 5-9 year olds for struck by/against, by Activity

Count of Acitvity	Mechanism Age Group Year					
	Struck by/Against				Struck by/Against Total	Grand Total
	5-9			5-9 Total		
Acitvity	2009	2010	2011			
Playing		3	5	8	8	8
Unspecified	2	2	1	5	5	5
Touch Rugby			2	2	2	2
Swimming		1		1	1	1
Trampoline			1	1	1	1
Grand Total	2	6	9	17	17	17

Table 29: Admissions of 5-9 year olds for struck by/against, by Location

Count of Location	Mechanism Age Group Year					
	Struck by/Against				Struck by/Against Total	Grand Total
	5-9			5-9 Total		
Location	2009	2010	2011			
Home	1	2	1	4	4	4
School/Public Building	1	1	2	4	4	4
Unspecified			3	3	3	3
Outdoors		1	1	2	2	2
Park		1	1	2	2	2
Farm		1		1	1	1
Sports and Athletics Area			1	1	1	1
Grand Total	2	6	9	17	17	17

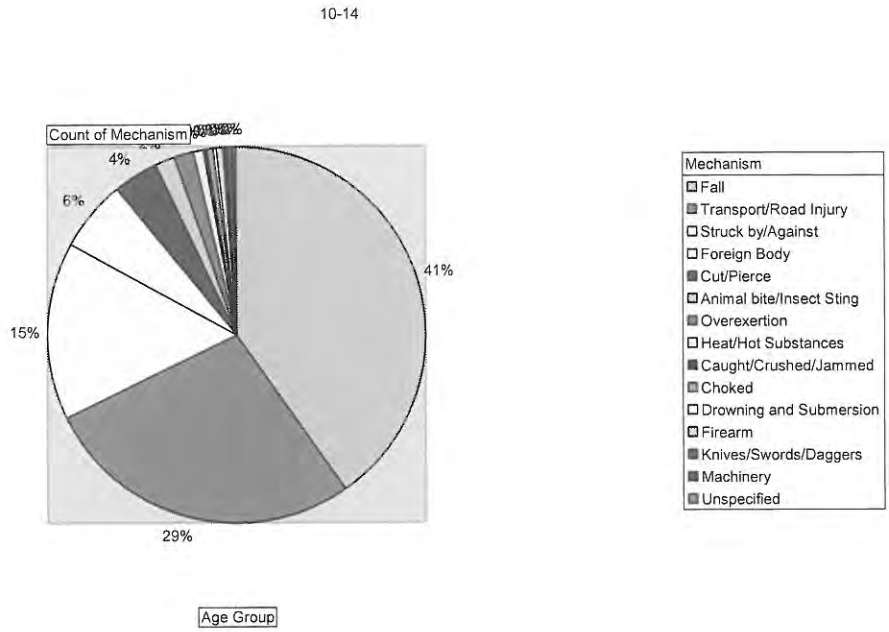
10-14 YEAR OLDS

SUMMARY

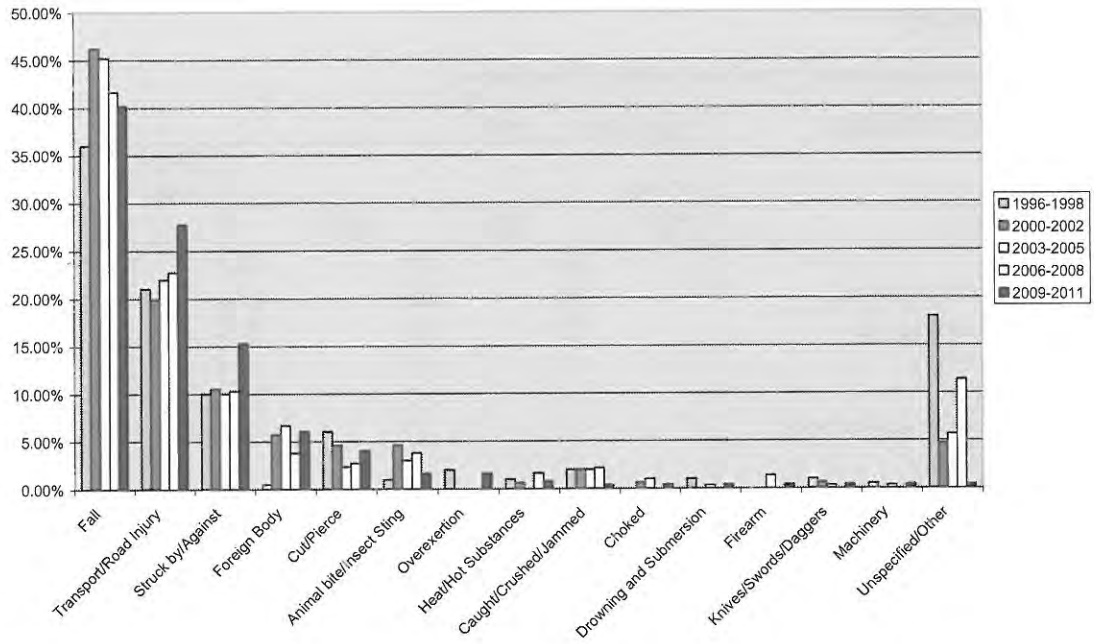
Table 30: Admissions of 10-14 year olds by Mechanism

Count of Mechanism	Age Group Year				
	10-14			10-14 Total	Grand Total
Mechanism	2009	2010	2011		
Fall	32	43	25	100	100
Transport/Road Injury	29	22	18	69	69
Struck by/Against	12	15	11	38	38
Foreign Body	4	4	7	15	15
Cut/Pierce	6	2	2	10	10
Animal bite/Insect Sting	1	2	1	4	4
Overexertion	1		3	4	4
Heat/Hot Substances		1	1	2	2
Caught/Crushed/Jammed	1			1	1
Choked		1		1	1
Drowning and Submersion		1		1	1
Firearm	1			1	1
Knives/Swords/Daggers			1	1	1
Machinery	1			1	1
Unspecified			1	1	1
Grand Total	88	91	70	249	249

Graph 19: Admissions of 10-14 year olds by Mechanism



Graph 20: 10-14 years, Mechanism and year group



Graph 21: Admissions of 10-14 year olds by Location

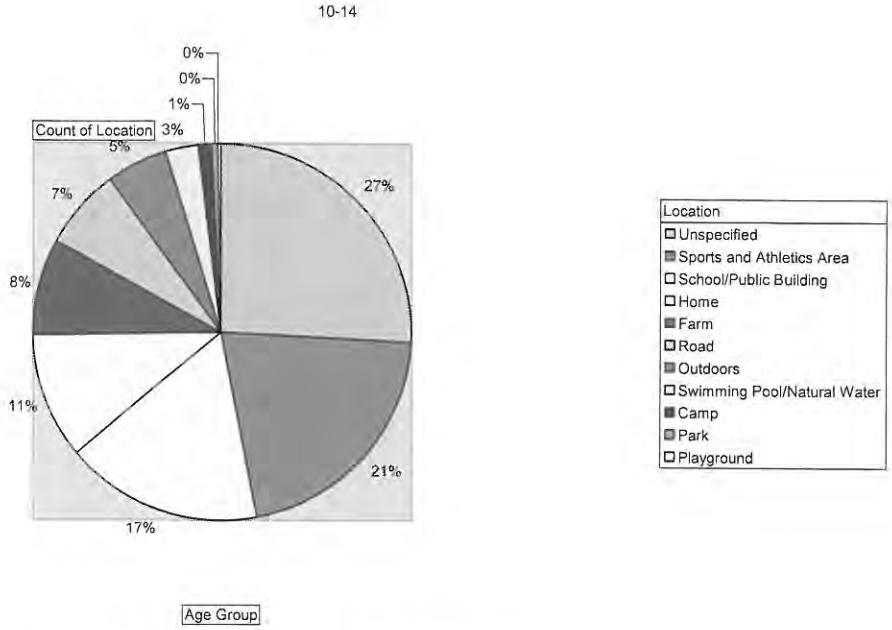


Table 31: Admissions of 10-14 year olds for falls, by Activity

ount of Acitvity	Mechanism	Age Group	Year			
	Fall				Fall Total	Grand Total
	10-14			10-14 Total		
citvity	2009	2010	2011			
laying	7	3	7	17	17	17
kateboarding	7	5	3	15	15	15
layground Equipment	3	9	1	13	13	13
nspecified	4	6	1	11	11	11
rampoline	1	4	2	7	7	7
orse Riding	1	1	4	6	6	6
unning		3	2	5	5	5
ying Fox	3	1		4	4	4
oller Skating		3		3	3	3
ugby	1	1	1	3	3	3
xercising		2		2	2	2
etball		1	1	2	2	2
cootering		1	1	2	2	2
limbing Tree			1	1	1	1
odgeball	1			1	1	1
ymnastics	1			1	1	1
ollerblading	1			1	1	1
ugby League		1		1	1	1
ccer	1			1	1	1
wimming		1		1	1	1
ouch Rugby		1		1	1	1
/hile Engaged in Leisure	1			1	1	1
/hile Resting Sleeping Eating or ngaging in Other Vital Activities			1	1	1	1
rand Total	32	43	25	100	100	100

Table 32: Admissions of 10-14 year olds for falls, by Location

Count of Location	Mechanism Age Group Year					
	Fall				Fall Total	Grand Total
	10-14			10-14 Total		
Location	2009	2010	2011			
School/Public Building	12	11	4	27	27	27
Unspecified	9	12	5	26	26	26
Sports and Athletics Area	5	9	3	17	17	17
Home	3	3	2	8	8	8
Outdoors		3	3	6	6	6
Farm	2		3	5	5	5
Road	1	2	2	5	5	5
Camp		2		2	2	2
Swimming Pool/Natural Water		1	1	2	2	2
Park			1	1	1	1
Playground			1	1	1	1
Grand Total	32	43	25	100	100	100

Table 33: Admissions of 10-14 year olds for transport/road injuries, by Activity

Count of Acitvity	Mechanism Age Group Year					
	Transport/Road Injury				Transport/Road Injury Total	Grand Total
	10-14			10-14 Total		
Acitvity	2009	2010	2011			
Cycling	11	11	7	29	29	29
Motorcycling	14	7	7	28	28	28
Passenger	1	1	3	5	5	5
Go-carting	1	2	1	4	4	4
Pedestrian	2	1		3	3	3
Grand Total	29	22	18	69	69	69

Table 34: Admissions of 10-14 year olds for transport/road injuries, by Location

Count of Location	Mechanism Age Group Year					
	Transport/Road Injury				Transport/Road Injury Total	Grand Total
	10-14			10-14 Total		
Location	2009	2010	2011			
Sports and Athletics Area	9	5	2	16	16	16
Unspecified	8	3	3	14	14	14
Farm	7	3	2	12	12	12
Road	3	4	5	12	12	12
Home		4	3	7	7	7
School/Public Building		3	1	4	4	4
Outdoors	1		2	3	3	3
Camp	1			1	1	1
Grand Total	29	22	18	69	69	69

Table 35: Admissions of 10-14 year olds for struck by/against, by Activity

Count of Acitvity	Mechanism Age Group Year					
	Struck by/Against				Struck by/Against Total	Grand Total
	10-14			10-14 Total		
Acitvity	2009	2010	2011			
Rugby	4	9	4	17	17	17
Unspecified	1	2	3	6	6	6
Playing	3		1	4	4	4
Rugby League		3		3	3	3
Surfing	2			2	2	2
Swimming			1	1	1	1
Trampoline			1	1	1	1
Kick-Boxing	1			1	1	1
Running		1		1	1	1
Skiing	1			1	1	1
Soccer			1	1	1	1
Grand Total	12	15	11	38	38	38

Table 36: Admissions of 10-14 year olds for struck by/against, by Location

Count of Location	Mechanism Age Group Year					
	Struck by/Against				Struck by/Against Total	Grand Total
	10-14			10-14 Total		
Location	2009	2010	2011			
Sports and Athletics Area	4	10	4	18	18	18
School/Public Building	3	4		7	7	7
Unspecified	2	1	3	6	6	6
Swimming Pool/Natural Water	2		1	3	3	3
Farm	1		1	2	2	2
Home			1	1	1	1
Outdoors			1	1	1	1
Grand Total	12	15	11	38	38	38