

### Definition/Description:

#### Injury Hospitalization

Defined as in-patient hospital treatment for an injury event as indicated by the presence of the first valid ICD-9 E-code (E800-E999) in any one of the 16 diagnosis fields in the Hospital Discharge Abstract Database. "All Injury" (ICD-9 codes: E800-869.9, E880-929.9, and E950-E999.9) is used in this report as the summary measure of injury in the Winnipeg Health Region. Health Canada, the United States Centers for Disease Control and the International Collaborative Effort on Injury (ICE on Injury) have recommended the use of *All Injury* instead of all external causes of injury (i.e. ICD-9 E800-E999.9) when examining injury data for injury prevention and control.<sup>1</sup> It should be noted that injuries due to Adverse Events are excluded from the *All Injury* definition.

*All Injury* can be divided into five intent-manner categories: *Unintentional*, *Self-inflicted*, *Assault*, *Undetermined*, and *Other Violence*. Crude rates and counts for all five intent-manner categories are reported at the regional-level and by community area (see list below). Note that the total of these five intent-manner categories results in *All Injury*.

The following data is presented in this indicator:

1. Table of Injury Hospitalizations in the WHR for Both Sexes, All Ages, 1997-1999 and 2000-2002. Counts, crude rates, and per cent.
2. Table of Injury Hospitalizations in the WHR for Females, All Ages, 1997-1999 and 2000-2002. Counts, crude rates, and per cent.
3. Table of Injury Hospitalizations in the WHR for Males, All Ages, 1997-1999 and 2000-2002. Counts, crude rates, and per cent.
4. Chart of All Injury, Crude Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
5. Chart of All Injury, Age-adjusted Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
6. Chart of Unintentional Injury, Crude Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
7. Chart of Unintentional Injury, Age-adjusted Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
8. Chart of Self-inflicted Injury, Crude Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
9. Chart of Self-inflicted Injury, Age-adjusted Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
10. Chart of Assault Injury, Crude Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
11. Chart of Assault Injury, Age-adjusted Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
12. Chart of Undetermined Injury, Crude Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
13. Chart of Undetermined Injury, Age-adjusted Rates of Hospitalization by Community Area, 1997-1999 and 2000-2002.
14. Table of Injury Hospitalizations in the Winnipeg Health Region by Community Area, 1997-1999. Counts, crude rates, and age-adjusted rates.
15. Table of Injury Hospitalizations in the Winnipeg Health Region by Community Area, 2000-2002. Counts, crude rates, and age-adjusted rates.
16. Table of Injury Hospitalizations in the Winnipeg Health Region Counts by Age Group and Age-specific rates 1997-2002.
17. Chart of Injury Hospitalizations in the WHR: Per cent Distribution of Intent-Manner Categories Among Age Groups, 1997-2002.

**Additional Note:**

A limitation of this data is that as a measure of injury in the population, injury hospitalizations represent severe injuries: those that required hospital admission for treatment. Persons treated and released from the emergency department for injuries are not included in hospital abstract data. A substantial number of injuries occur that is never treated in hospital and therefore is not captured by this data. Please refer to the Self-Reported Injuries indicator (indicator #48), which addresses this information gap.

Note that all rates provided in this indicator are *per 100 000 population*.

**Method**

Six calendar years of hospitalization data from the Hospital Discharge Abstract Database (source: Manitoba Health) were used, for the period of January 1, 1997 to December 31, 2002. These were divided into two periods for comparison: January 1, 1997 to December 31, 1999 and January 1, 2000 to December 31, 2002. Residents of the WHR who were treated in any Manitoba hospital for an injury were included in this analysis.

Injury hospitalizations were sorted into five intent-manner categories by cause/mechanism using the Injury Matrix recommended by Health Canada. This was originally developed by the United States Centers for Disease Control and ICE on Injury (International Collaborative Effort on Injury).<sup>1</sup> It should be noted that Health Canada is represented in ICE on Injury. The injury matrix used was modified by Health Canada in order to monitor injuries of interest to the Canadian population.<sup>2</sup>

Three-year rates were calculated by using the number of injury hospitalization events (using the above definitions) as the numerator and the appropriate population (WHR or community area) as the denominator to produce a rate per 100 000 population. The regional rates reported here are crude rates. Note that "persons in care" (those residents who are attributed to having "residence" at the Public Trustees Office for the Province of Manitoba) were included in these injury analyses.

For each of the twelve community areas, the counts, crude rates and age-adjusted rates of injury hospitalizations for the five intent-manner categories are presented. Age-adjusted rates enable comparison between the community areas. Age-adjusted rates for community areas were generated using the direct method of standardization.

At the regional-level, age-specific rates of injury hospitalization for both sexes were calculated for the entire time period of interest, 1997-2002. Only the counts and age-specific rates from the five intent-manner categories are reported. A per cent distribution of the five intent-manner categories for injury hospitalizations for each age-group was calculated with the count for *All Injury* as the denominator.

Unintentional Injury was also examined by cause (or mechanism) using the Injury Matrix in order to determine leading causes of unintentional injury in the health region. This has been reported in the indicator: Leading Causes of Unintentional Injury Hospitalization (Indicator # 47).

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<sup>1</sup> Centers for Disease Control and Prevention. (1997) Recommended framework for presenting injury mortality data. MMWR;46 (No.RR-14).

<sup>2</sup> Information available on-line: [http://dsol-smed.hc-sc.gc.ca/dsol-smed/is-sb/icd9sup\\_e.html](http://dsol-smed.hc-sc.gc.ca/dsol-smed/is-sb/icd9sup_e.html)

Table of Injury Groupings by Intent/Manner		
Intent/Manner	ICD9 E-Code	Description
Unintentional	E800.0-E869.9, E880-E929.9	Unintentional injuries of various causes/mechanisms. Includes mechanisms such as: motor vehicle traffic, cut/pierce, drowning, fall, poisoning, suffocation, firearms, fire/burn and natural/environmental factors.
Self-inflicted	E950.0-E959	Intentional self-harm (including suicide). The following mechanisms are included: cut/pierce, drowning, fall, poisoning, suffocation, firearms, fire/burn.
Assault	E960.0-E969	Intentional harm by others. Includes mechanisms such as: cut/pierce, firearm, fire/burn, struck by, against, child maltreatment.
Undetermined	E980.0-E989	Unable to determine the Manner/Intent of the injury as either unintentional or intentional. Examples of mechanisms include: drowning, fire/burn, poisoning, suffocation.
Other Violence	E970-E978, E990-E999	This includes injuries caused by legal intervention, and operations of war. Includes military personnel and civilians.
All Injury	E800-E999, excluding E870.0-E879.9, E930.0-E949.9	This is the sum of the above five intent/manner categories. Note that Adverse events are excluded.

### Source:

The source data was the Hospital Abstract Database, provided by Decision Support Service, Manitoba Health. All numerical values, tables, and figures were generated by Population Health & Health System Analysis, Winnipeg Regional Health Authority, 2004.

The **Findings** section for this indicator begins on the following page.

**Findings:****Injury Hospitalizations in the Winnipeg Health Region for Both Sexes, All Ages  
1997-1999 and 2000-2002**

Manner/Intent	1997-1999			2000-2002		
	Number of Hospitalizations	Crude Rate per 100,000	Per cent of All Injury	Number of Hospitalizations	Crude Rate per 100,000	Per cent of All Injury
<b>Unintentional</b>	12440	640.1	83.8%	12109	617.3	84.7%
<b>Self-inflicted</b>	1094	56.3	7.4%	966	49.2	6.8%
<b>Assault</b>	1066	54.8	7.2%	978	49.9	6.8%
<b>Undetermined</b>	234	12.0	1.6%	237	12.1	1.7%
<b>Other Violence</b>	4	0.2	0.0%	5	0.3	0.0%
<b>All Injury<sup>1</sup></b>	<b>14838</b>	<b>763.5</b>	<b>100.0%</b>	<b>14295</b>	<b>728.8</b>	<b>100.0%</b>

**Injury Hospitalizations in the Winnipeg Health Region for Females, All Ages  
1997-1999 and 2000-2002**

Manner/Intent	1997-1999			2000-2002		
	Number of Hospitalizations	Crude Rate per 100,000	Per cent of All Injury	Number of Hospitalizations	Crude Rate per 100,000	Per cent of All Injury
<b>Unintentional</b>	6742	674.4	86.9%	6573	652.0	87.8%
<b>Self-inflicted</b>	662	66.2	8.5%	600	59.5	8.0%
<b>Assault</b>	225	22.5	2.9%	195	19.3	2.6%
<b>Undetermined</b>	125	12.5	1.6%	117	11.6	1.6%
<b>Other Violence</b>	0	0.0	0.0%	1	0.1	0.0%
<b>All Injury<sup>1</sup></b>	<b>7754</b>	<b>775.6</b>	<b>100.0%</b>	<b>7486</b>	<b>742.6</b>	<b>100.0%</b>

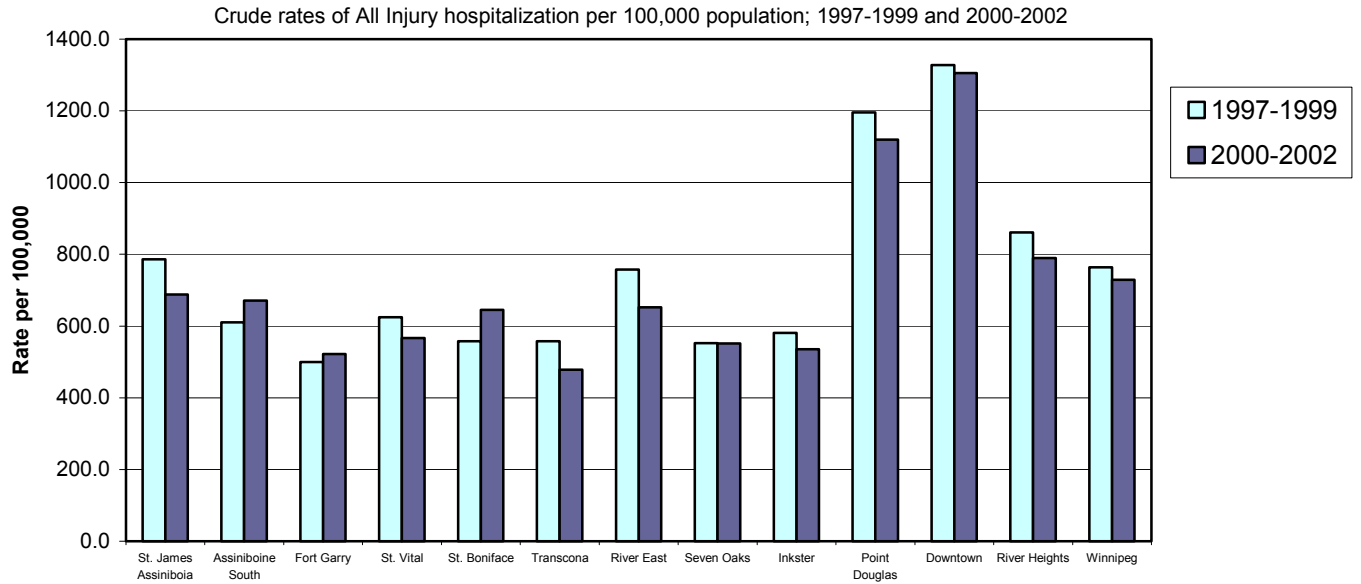
**Injury Hospitalizations in the Winnipeg Health Region for Males, All Ages  
1997-1999 and 2000-2002**

Manner/Intent	1997-1999			2000-2002		
	Number of Hospitalizations	Crude Rate per 100,000	Per cent of All Injury	Number of Hospitalizations	Crude Rate per 100,000	Per cent of All Injury
<b>Unintentional</b>	5698	603.7	80.4%	5536	580.6	81.3%
<b>Self-inflicted</b>	432	45.8	6.1%	366	38.4	5.4%
<b>Assault</b>	841	89.1	11.9%	783	82.1	11.5%
<b>Undetermined</b>	109	11.5	1.5%	120	12.6	1.8%
<b>Other Violence</b>	4	0.4	0.1%	4	0.4	0.1%
<b>All Injury<sup>1</sup></b>	<b>7084</b>	<b>750.6</b>	<b>100.0%</b>	<b>6809</b>	<b>714.1</b>	<b>100.0%</b>

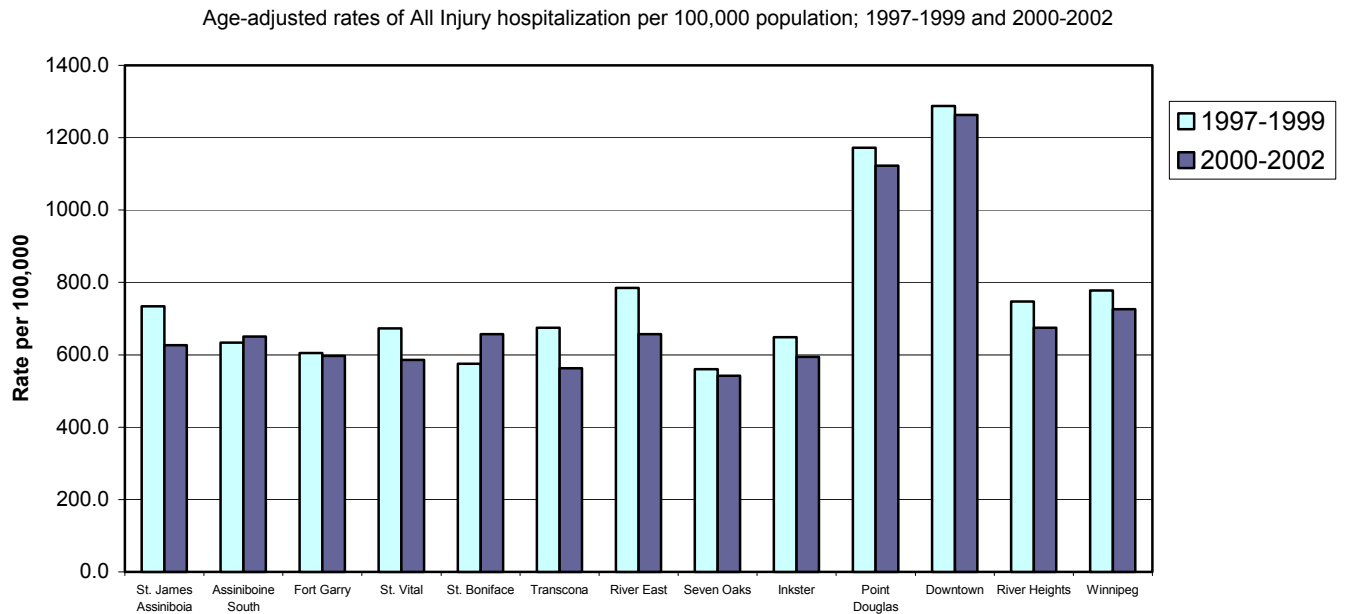
## Notes:

- All rates are per 100 000 population.

**All Injury, Crude Rates of Hospitalization by Community Area**

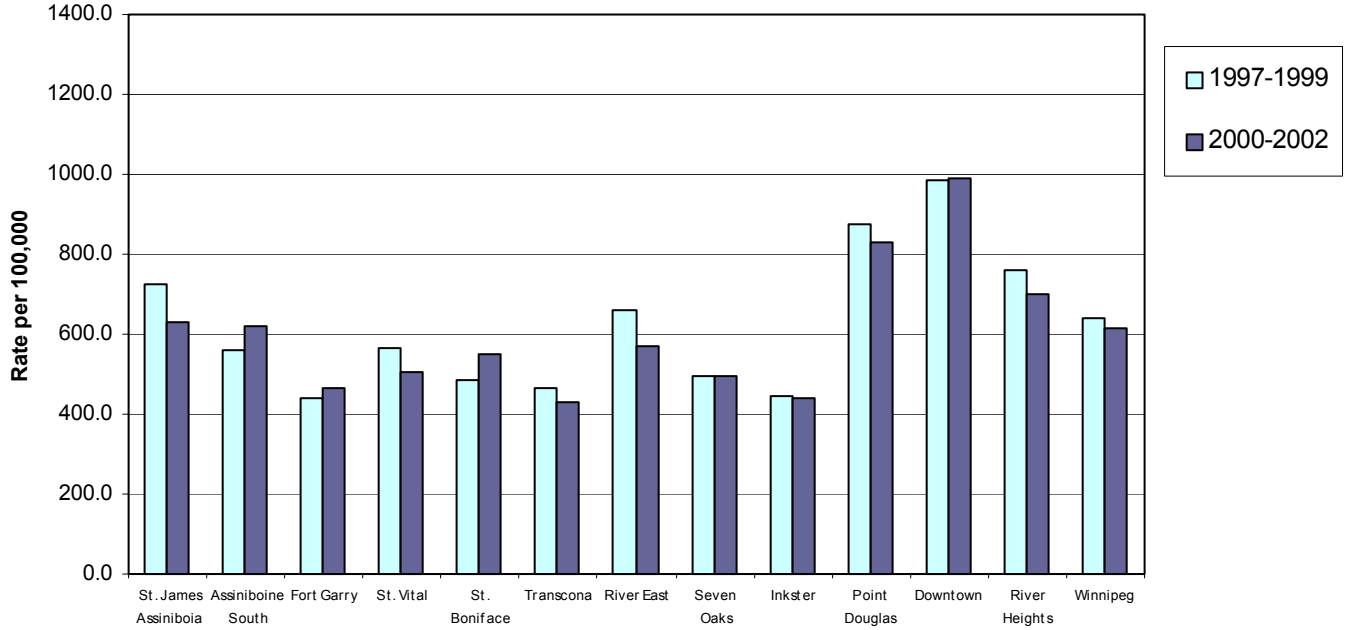


**All Injury, Age-adjusted Rates of Hospitalization by Community Area**



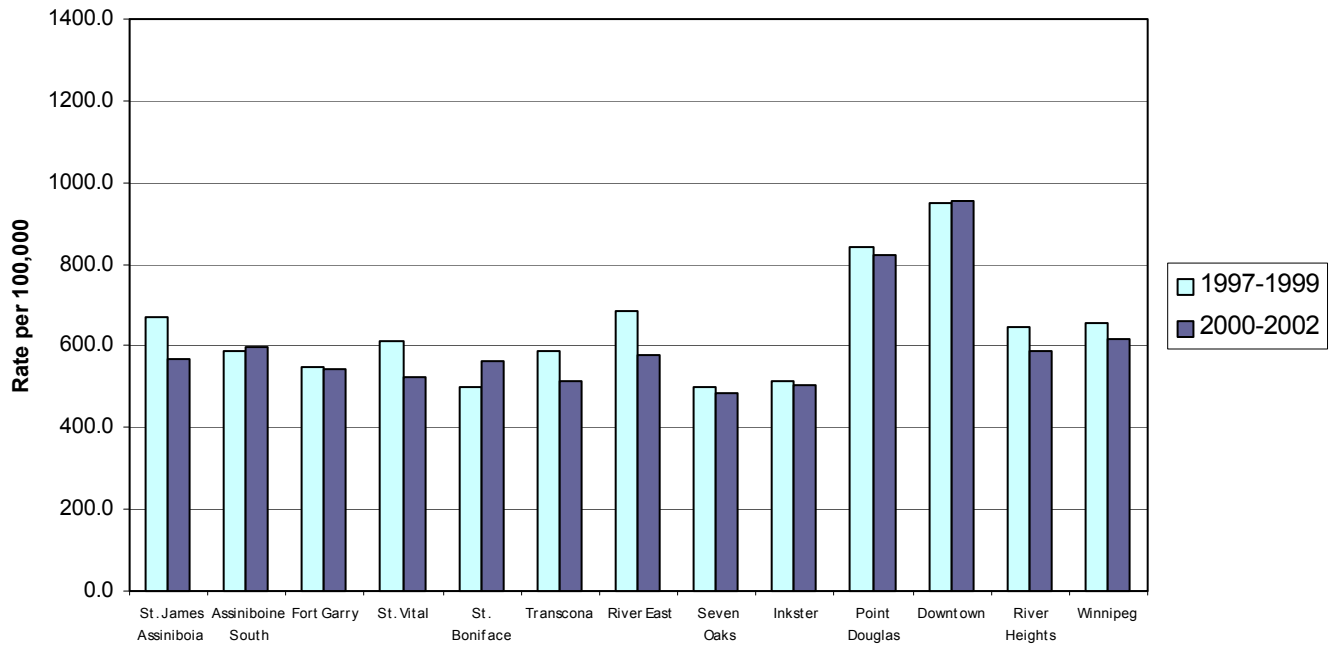
**Unintentional Injury, Crude Rates of Hospitalization by Community Area**

Crude rates of Unintentional Injury hospitalization per 100,000 population; 1997-1999 and 2000-2002

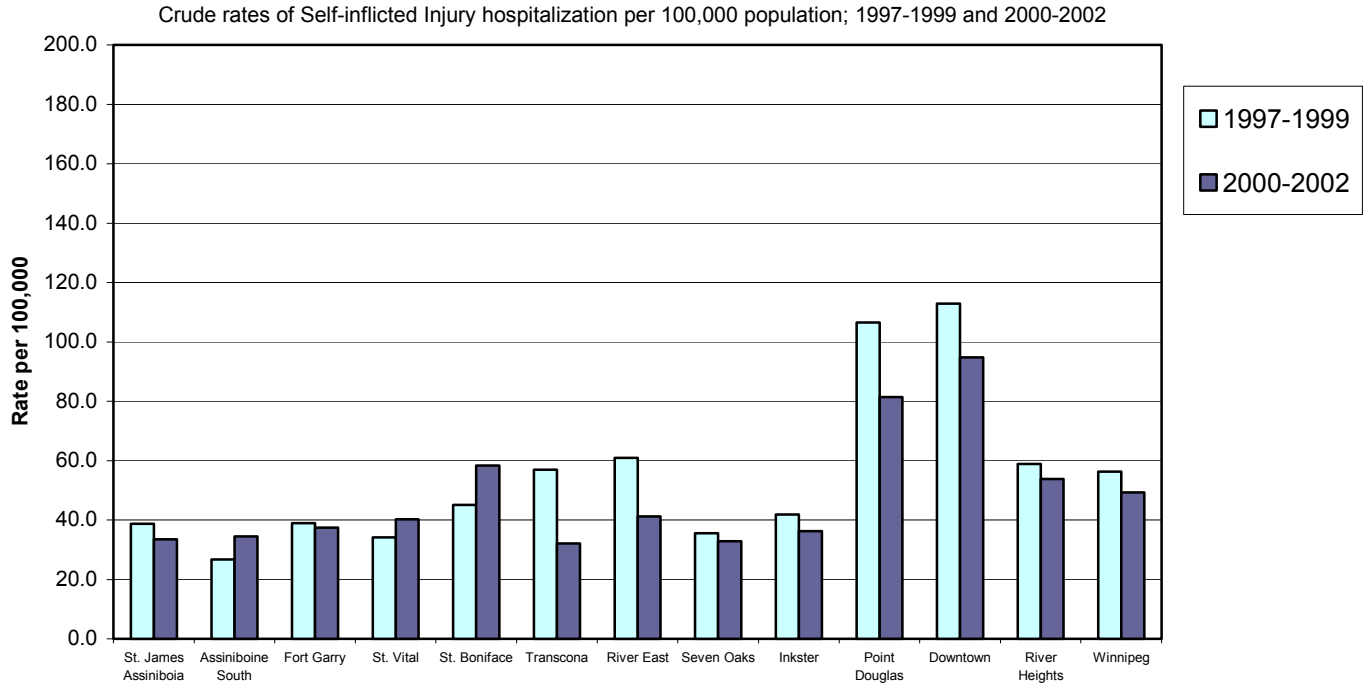


**Unintentional Injury, Age-adjusted Rates of Hospitalization by Community Area**

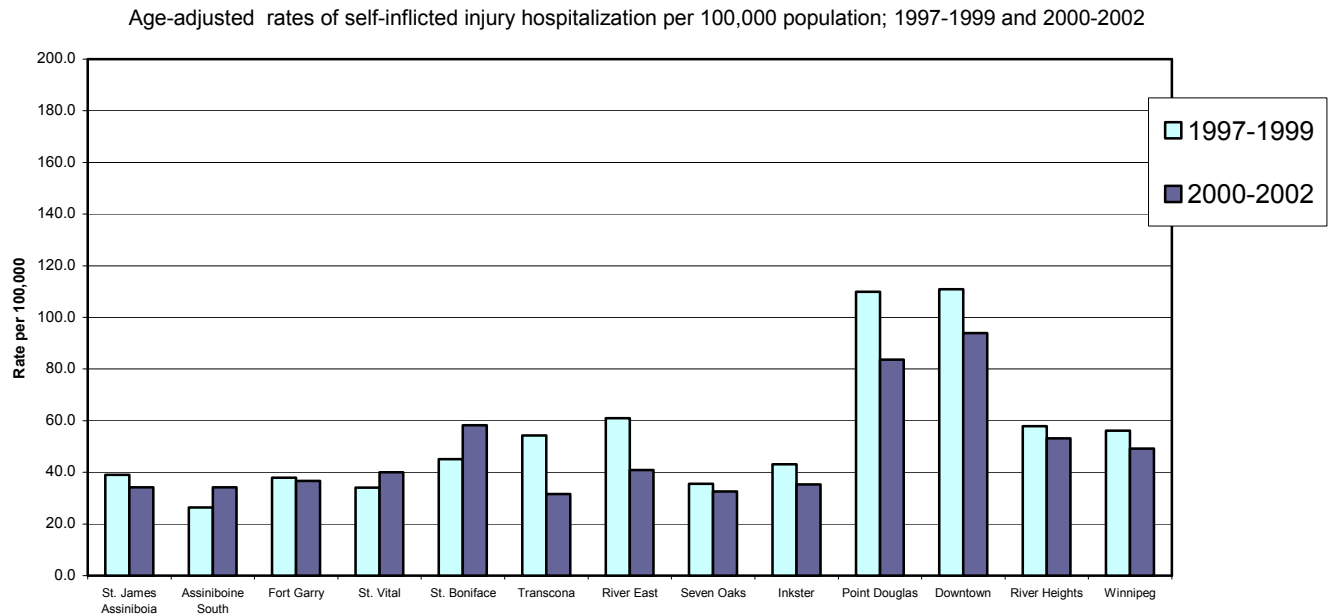
Age-adjusted rates of Unintentional Injury hospitalization per 100,000 population; 1997-1999 and 2000-2002



**Self-inflicted Injury, Crude Rates of Hospitalization by Community Area**

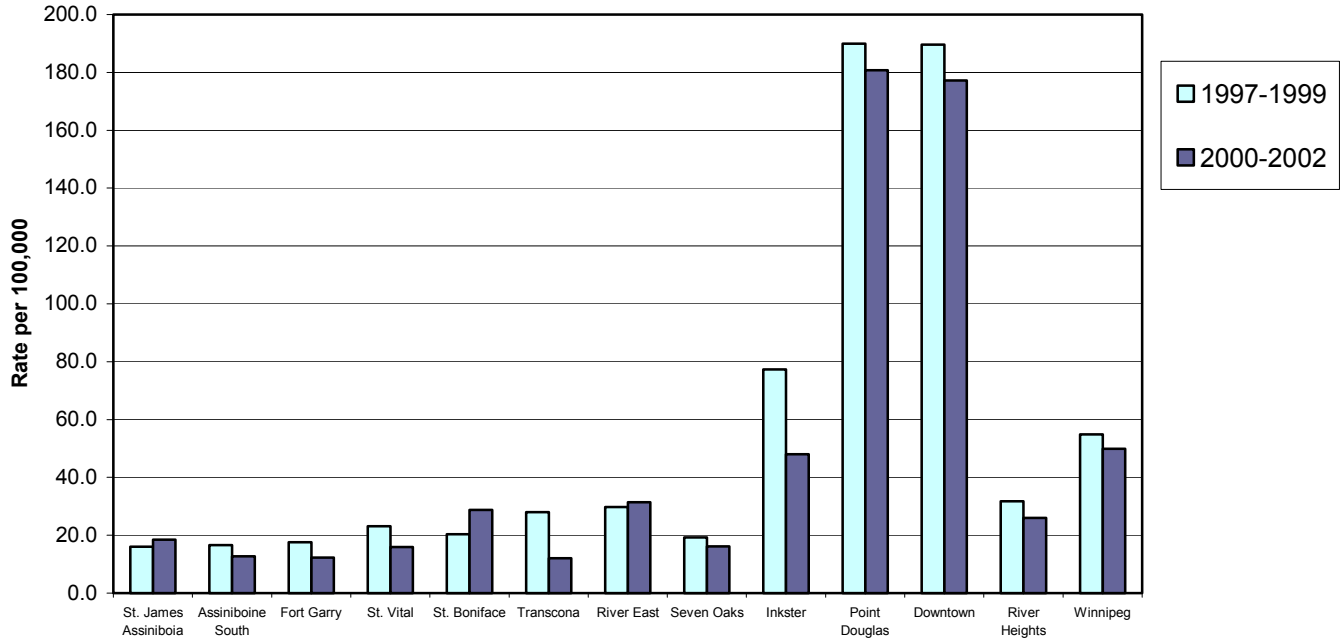


**Self-inflicted Injury, Age-adjusted Rates of Hospitalization by Community Area**



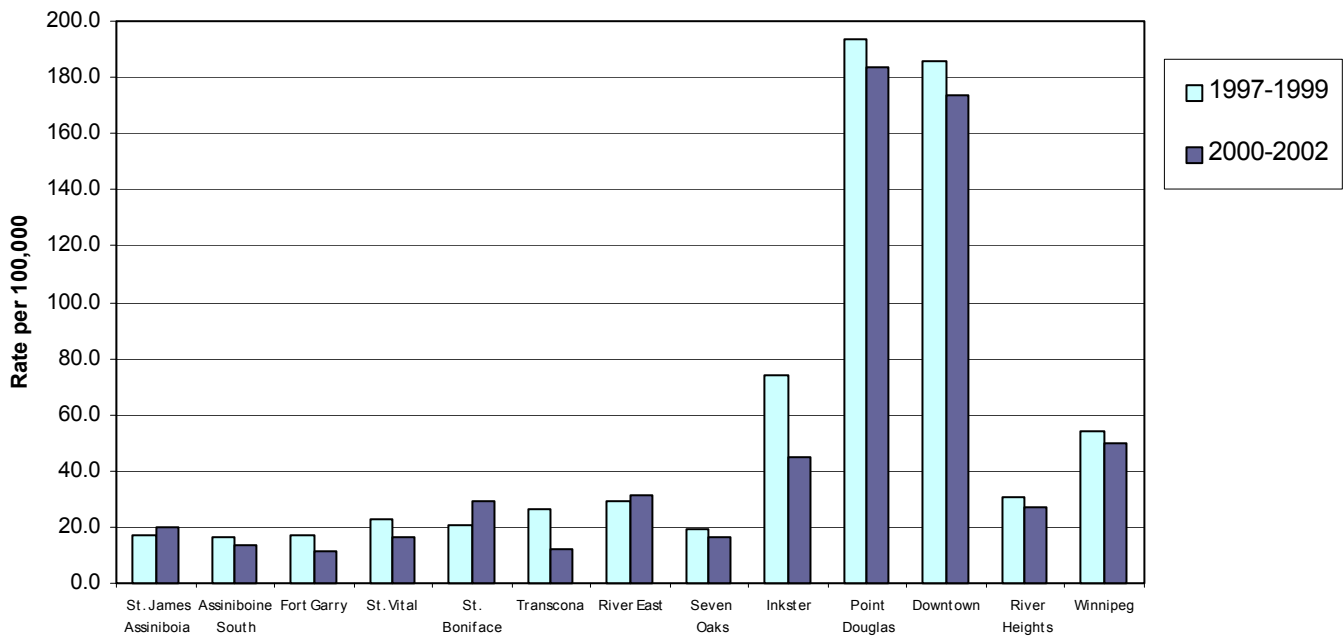
**Assault Injury, Crude Rates of Hospitalization by Community Area**

Crude rates of Assault Injury hospitalization per 100,000 population; 1997-1999 and 2000-2002



**Assault Injury, Age-adjusted Rates of Hospitalization by Community Area**

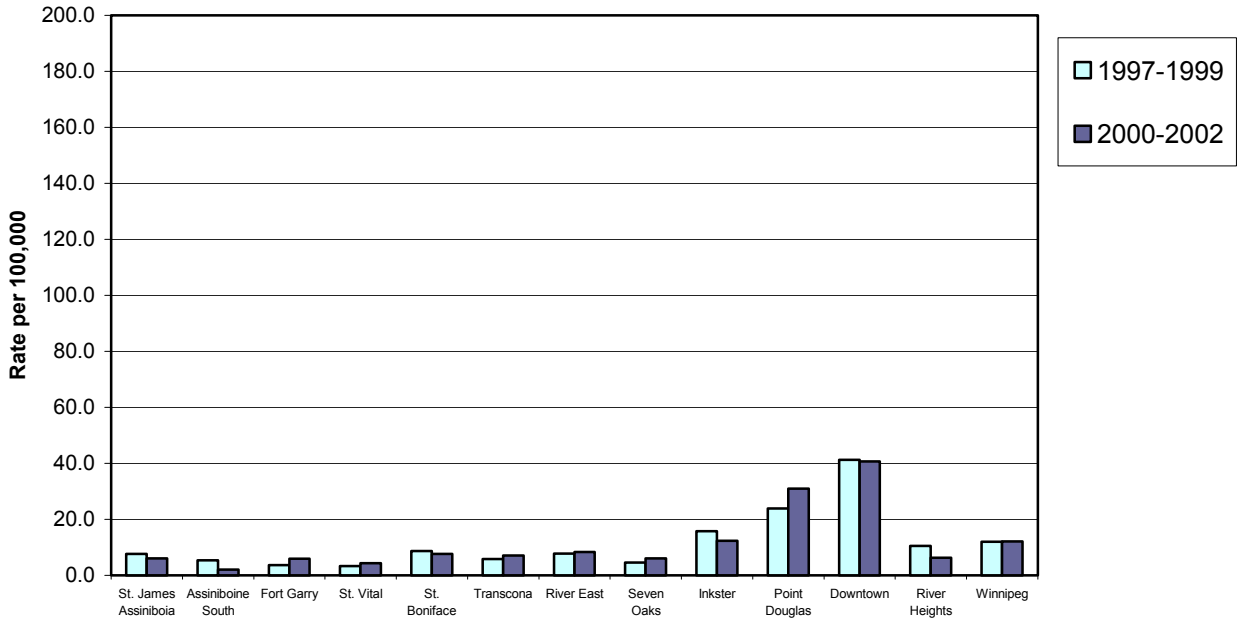
Age-adjusted rates of Assault Injury hospitalization per 100,000 population; 1997-1999 and 2000-2002





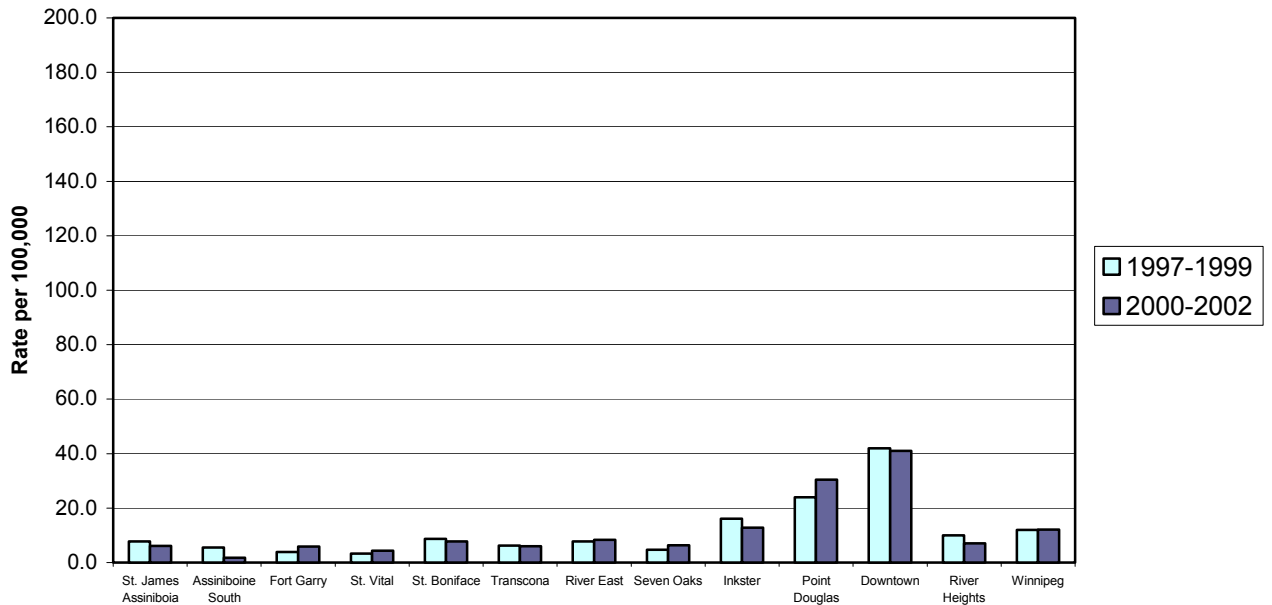
**Undetermined Intent Injury, Age-adjusted Rates of Hospitalization by Community Area**

Age-adjusted rates of injury of undetermined intent hospitalization per 100,000 population; 1997-1999 and 2000-2002



**Undetermined Intent Injury, Crude Rates of Hospitalization by Community Area**

Crude rates of injury of undetermined intent hospitalization per 100,000 population; 1997-1999 and 2000-2002



### Injury Hospitalizations in the Winnipeg Health Region by Community Area 1997-1999

Community Area	Unintentional			Self-inflicted			Assault			Undetermined			All Injury <sup>1</sup>		
	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000
St. James Assiniboia	1307	723.4	671.0	70	38.7	39.0	29	16.1	16.8	14	7.7	7.6	1420	786.0	734.3
Assiniboine South	610	561.7	585.1	29	26.7	26.4	18	16.6	16.6	6	5.5	5.4	663	610.5	633.5
Fort Garry	801	439.6	546.2	71	39.0	37.9	32	17.6	16.8	7	3.8	3.7	911	500.0	604.6
St. Vital	1023	563.3	611.8	62	34.1	34.1	42	23.1	22.9	6	3.3	3.3	1135	624.9	673.1
St. Boniface	665	483.6	501.1	62	45.1	45.1	28	20.4	20.3	12	8.7	8.6	767	557.8	575.1
Transcona	451	466.6	588.2	55	56.9	54.2	27	27.9	26.2	6	6.2	5.9	539	557.7	674.5
River East	1794	658.8	686.4	166	61.0	60.9	81	29.7	29.5	21	7.7	7.8	2062	757.2	784.6
Seven Oaks	846	492.9	500.8	61	35.5	35.6	33	19.2	19.0	8	4.7	4.6	948	552.3	559.9
Inkster	415	445.6	516.1	39	41.9	43.1	72	77.3	73.8	15	16.1	15.7	541	580.9	648.7
Point Douglas	1059	874.4	843.6	129	106.5	109.9	230	189.9	193.8	29	23.9	23.9	1448	1195.6	1172.0
Downtown	2177	982.6	949.3	250	112.8	110.9	420	189.6	185.7	93	42.0	41.2	2941	1327.4	1287.6
River Heights	1291	760.3	648.1	100	58.9	57.9	54	31.8	30.8	17	10.0	10.5	1462	861.0	747.3
Winnipeg	12440	640.1	655.1	1094	56.3	56.1	1066	54.8	54.4	234	12.0	12.0	14838	728.8	777.8

## Notes:

- The intent/manner category of 'Other violence' is not shown due to small counts, but these counts were included in the 'All Injury' totals.
- <sup>1</sup>All Injury excludes Adverse Events.
- \* Indicates that the value is suppressed due to a cell count of less than five.

### Injury Hospitalizations in the Winnipeg Health Region by Community Area 2000-2002

Community Area	Unintentional			Self-inflicted			Assault			Undetermined			All Injury <sup>1</sup>		
	Count	Crude Rate per 100,000	Age-adjusted Rate per 100,000	Count	Crude Rate per 100,000	Age-adjusted Rate per 100,000	Count	Crude Rate per 100,000	Age-adjusted Rate per 100,000	Count	Crude Rate per 100,000	Age-adjusted Rate per 100,000	Count	Crude Rate per 100,000	Age-adjusted Rate per 100,000
St. James Assiniboia	1125	629.5	566.6	60	33.6	34.2	33	18.5	19.8	11	6.2	6.0	1230	688.2	627.1
Assiniboine South	685	621.5	599.4	38	34.5	34.2	14	12.7	13.2	*	1.8	2.0	740	671.4	649.9
Fort Garry	874	466.6	542.9	70	37.4	36.7	23	12.3	11.7	11	5.9	5.9	978	522.1	597.2
St. Vital	919	505.8	525.2	73	40.2	40.0	29	16.0	16.1	8	4.4	4.4	1029	566.4	585.6
St. Boniface	783	550.2	562.4	83	58.3	58.3	41	28.8	29.1	11	7.7	7.7	918	645.1	657.5
Transcona	426	427.8	512.0	32	32.1	31.6	12	12.1	12.2	6	6.0	7.1	476	478.0	562.8
River East	1584	571.6	576.2	114	41.1	41.0	87	31.4	31.5	23	8.3	8.4	1808	652.4	657.0
Seven Oaks	860	496.5	486.6	57	32.9	32.6	28	16.2	16.4	11	6.4	6.1	956	551.9	541.7
Inkster	411	438.5	502.2	34	36.3	35.3	45	48.0	44.8	12	12.8	12.3	502	535.5	594.6
Point Douglas	1007	827.6	824.5	99	81.4	83.7	220	180.8	183.5	37	30.4	31.0	1363	1120.2	1122.6
Downtown	2249	991.6	954.0	215	94.8	93.9	402	177.2	173.7	93	41.0	40.7	2960	1305.1	1262.7
River Heights	1186	701.3	587.5	91	53.8	53.2	44	26.0	27.0	12	7.1	6.2	1335	789.4	675.1
Winnipeg	12109	617.3	614.8	966	49.2	49.1	978	49.9	49.9	237	12.1	12.1	14295	728.8	726.1

## Notes:

- The intent/manner category of 'Other violence' is not shown due to small counts, but these counts were included in the 'All Injury' totals.
- <sup>1</sup>All Injury excludes Adverse Events.
- \* Indicates that the value is suppressed due to a cell count of less than five.

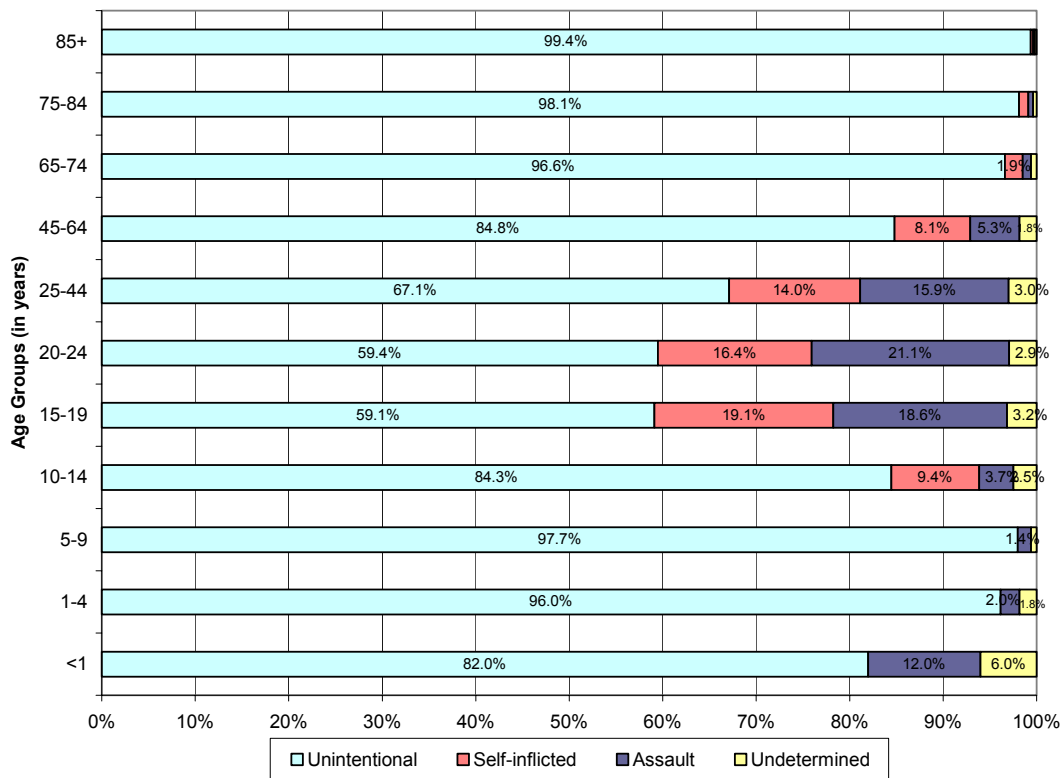
**Injury Hospitalizations in the Winnipeg Health Region: Counts by Age Group and Age-Specific Rates of Hospitalization, 1997-2002**

Age Group	Unintentional		Self-inflicted		Assault		Undetermined		All Injury	
	Count	Rate per 100,000	Count	Rate per 100,000	Count	Rate per 100,000	Count	Rate per 100,000	Count	Rate per 100,000
<1	109	239.9	0	0.0	16	35.2	8	17.6	133	292.7
1-4	574	296.2	*	*	12	6.2	11	5.7	598	308.5
5-9	631	242.7	*	*	9	3.5	*	1.5	646	248.5
10-14	782	306.6	87	34.1	34	13.3	23	9.0	928	363.8
15-19	970	388.8	314	125.8	305	122.2	52	20.8	1641	657.7
20-24	969	367.2	268	101.6	344	130.4	48	18.2	1630	617.7
25-44	4313	352.8	901	73.7	1021	83.5	193	15.8	6432	526.2
45-64	3917	448.0	373	42.7	244	27.9	85	9.7	4620	528.4
65-74	2643	959.5	52	18.9	24	8.7	17	6.2	2736	993.3
75-84	5113	2607.5	51	26.0	27	13.8	20	10.2	5212	2657.9
85+	4528	6562.6	11	15.9	8	11.6	10	14.5	4557	6604.6

Notes:

- The intent/manner category of 'Other violence' is not shown due to small counts, but these counts were included in the 'All Injury' totals.
- <sup>1</sup> All Injury excludes Adverse Events.
- \* Indicates that the value is suppressed due to a cell count of less than five.

**Injury Hospitalizations in the Winnipeg Health Region: Per cent Distribution of Intent-Manner Categories Among Age Groups, 1997-2002**



### Injury Hospitalizations in the Winnipeg Health Region for Both Sexes, All Ages Injury Matrix, 1997-1999

Mechanism or Cause	Manner or Intent											
	Unintentional		Self-inflicted		Assault		Undetermined		Other Violence		Total	
	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000
Cut/pierce	484	24.90	159	8.18	253	13.02	25	1.29	0	0.00	921	47.39
Drowning/submersion	15	0.77	*	0.05	0	0.00	0	0.00			16	0.82
Fail	7410	381.26	13	0.67	6	0.31	6	0.31			7435	382.55
Fire/burn	263	13.53	14	0.72	*	0.10	*	0.15			282	14.51
Fire/flame	99	5.09	10	0.51	*	0.05	*	0.15			113	5.81
Private home conflagration	39	2.01									39	2.01
Ignition of clothing	11	0.57									11	0.57
Hot object/substance	164	8.44	*	0.21	*	0.05	0	0.00			169	8.70
Firearm	10	0.51	6	0.31	6	0.31	*	0.05	0	0.00	23	1.18
Machinery	153	7.87									153	7.87
Agricultural machines	7	0.36									7	0.36
Motor vehicle traffic	1064	54.75	*	0.10	*	0.05	0	0.00			1067	54.90
Occupant	632	32.52									632	32.52
Motorcyclist	47	2.42									47	2.42
Pedal cyclist	50	2.57									50	2.57
Pedestrian	280	14.41									280	14.41
Unspecified	45	2.32									45	2.32
Pedal cyclist, other	160	8.23									160	8.23
Pedestrian, other	19	0.98									19	0.98
Transport, other	194	9.98	*	0.05			0	0.00			195	10.03
Snowmobile	42	2.16									42	2.16
Other off-road vehicle	25	1.29									25	1.29
Water transport, ex. Drowning	17	0.87									17	0.87
Air & space transport	16	0.82									16	0.82
Natural/environmental	230	11.83	*	0.05			*	0.05			232	11.94
Excessive cold	49	2.52	*	0.05			*	0.05			51	2.62
Bites and stings	141	7.25									141	7.25
Overexertion	238	12.25									238	12.25
Poisoning	286	14.72	827	42.55	*	0.15	167	8.59	0	0.00	1283	66.01
Medication	222	11.42	751	38.64	*	0.10	128	6.59			1103	56.75
Alcohol	9	0.46									9	0.46
Motor vehicle exhaust	*	0.15	17	0.87			0	0.00			20	1.03
Other carbon monoxide	*	0.10	*	0.21			0	0.00			6	0.31
Struck by, against	406	20.89			503	25.88			*	0.05	910	46.82
Suffocation	85	4.37	28	1.44	*	0.15	*	0.10			118	6.07
Choking on food	51	2.62									51	2.62
Choking, non-food	30	1.54									30	1.54
Suffocation, plastic bag	0	0.00	0	0.00							0	0.00
Suffocation in bed or cradle	*	0.05									*	0.05
Hanging ex in bed or cradle	0	0.00	27	1.39	*	0.15	*	0.10			32	1.65
Other specified, classifiable	486	25.01	*	0.10	59	3.04	0	0.00	0	0.00	547	28.14
Child maltreatment					50	2.57					50	2.57
Other specified, NEC	113	5.81	38	1.96	118	6.07	11	0.57	*	0.15	283	14.56
Unspecified	824	42.40	*	0.10	112	5.76	18	0.93	0	0.00	956	49.19
Fracture, cause unspecified	288	14.82									288	14.82
<b>All injury</b>	<b>12440</b>	<b>640.07</b>	<b>1094</b>	<b>56.29</b>	<b>1066</b>	<b>54.85</b>	<b>234</b>	<b>12.04</b>	<b>4</b>	<b>0.21</b>	<b>14838</b>	<b>763.45</b>

■ = no applicable E-code(s)

Notes:

- All rates are per 100,000 population.
- \* Indicates that the value is suppressed due to a cell count of less than five.

### Injury Hospitalizations in the Winnipeg Health Region for Both Sexes, All Ages Injury Matrix, 2000-2002

Mechanism or Cause	Manner or Intent											
	Unintentional		Self-inflicted		Assault		Undetermined		Other Violence		Total	
	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000
Cut/pierce	409	20.85	124	6.32	237	12.08	14	0.71	0	0.00	784	39.97
Drowning/submersion	13	0.66	*	0.15	0	0.00	*	0.05			17	0.87
Fall	7255	369.87	11	0.56	*	0.10	7	0.36			7275	370.89
Fire/burn	233	11.88	*	0.10	5	0.25	7	0.36			247	12.59
Fire/flame	84	4.28	*	0.05	*	0.10	7	0.36			94	4.79
Private home conflagration	28	1.43									28	1.43
Ignition of clothing	16	0.82									16	0.82
Hot object/substance	149	7.60	*	0.05	*	0.15	0	0.00			153	7.80
Firearm	9	0.46	*	0.10	14	0.71	*	0.10	*	0.05	28	1.43
Machinery	158	8.06									158	8.06
Agricultural machines	8	0.41									8	0.41
Motor vehicle traffic	1000	50.98	*	0.05	*	0.05	*	0.10			1004	51.19
Occupant	597	30.44									597	30.44
Motorcyclist	70	3.57									70	3.57
Pedal cyclist	40	2.04									40	2.04
Pedestrian	243	12.39									243	12.39
Unspecified	47	2.40									47	2.40
Pedal cyclist, other	143	7.29									143	7.29
Pedestrian, other	23	1.17									23	1.17
Transport, other	204	10.40	0	0.00			0	0.00			204	10.40
Snowmobile	45	2.29									45	2.29
Other off-road vehicle	40	2.04									40	2.04
Water transport, ex. Drowning	10	0.51									10	0.51
Air & space transport	14	0.71									14	0.71
Natural/environmental	192	9.79	*	0.05			0	0.00			193	9.84
Excessive cold	53	2.70	*	0.05			0	0.00			54	2.75
Bites and stings	114	5.81									114	5.81
Overexertion	258	13.15									258	13.15
Poisoning	313	15.96	776	39.56	*	0.05	173	8.82	0	0.00	1263	64.39
Medication	257	13.10	727	37.06	0	0.00	144	7.34			1128	57.51
Alcohol	11	0.56									11	0.56
Motor vehicle exhaust	0	0.00	10	0.51			*	0.05			11	0.56
Other carbon monoxide	0	0.00	*	0.05			0	0.00			*	0.05
Struck by, against	418	21.31			436	22.23			*	0.10	856	43.64
Suffocation	83	4.23	23	1.17	0	0.00	*	0.15			109	5.56
Choking on food	44	2.24									44	2.24
Choking, non-food	35	1.78									35	1.78
Suffocation, plastic bag	0	0.00	0	0.00							0	0.00
Suffocation in bed or cradle	*	0.05									*	0.05
Hanging ex in bed or cradle	*	0.10	22	1.12	0	0.00	*	0.15			27	1.38
Other specified, classifiable	456	23.25	*	0.15	51	2.60	0	0.00	*	0.05	511	26.05
Child maltreatment					46	2.35					46	2.35
Other specified, NEC	122	6.22	15	0.76	89	4.54	15	0.76	*	0.05	242	12.34
Unspecified	820	41.80	5	0.25	142	7.24	13	0.66	0	0.00	980	49.96
Fracture, cause unspecified	369	18.81									369	18.81
<b>All injury</b>	<b>12109</b>	<b>617.33</b>	<b>966</b>	<b>49.25</b>	<b>978</b>	<b>49.86</b>	<b>237</b>	<b>12.08</b>	<b>5</b>	<b>0.25</b>	<b>14295</b>	<b>728.78</b>

■ = no applicable E-code(s)

Notes:

- All rates are per 100,000 population.
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## Highlights:

**Note:** Only the crude rates are referred to in this narrative. The rationale for this is that there was very little difference between the crude and age-adjusted rate for each community area and for the region. For comparison purposes, both crude and age-adjusted rates are shown in the Findings section.

### Regional (WHR)

- There was a slight decrease in the crude *All Injury* hospitalization rate in the WHR between the time periods of 1997-1999 ( $t_1$ ) and 2000-2002 ( $t_2$ ).
- The WHR *All Injury* hospitalization rate decreased from 763.5 per 100,000 population to 728.8 per 100,000 population.
- *The All Injury* rate is slightly higher for females compared to males in the WHR.
- *Unintentional Injury* accounts for approximately 84% of *All Injury* hospitalizations for WHR residents.
- *Self-inflicted Injury* hospitalization accounts for approximately 7% of *All Injury* hospitalizations for WHR residents.
- Females had substantially higher rates of *Self-inflicted Injury* hospitalization than males.
- *Assault Injury* hospitalization accounts for approximately 7% of *All Injury* hospitalizations for WHR residents.

### Community Area

- The lowest rates of *All Injury* hospitalization were found in the following community areas: Fort Garry for  $t_1$  and Transcona for  $t_2$ .
- The highest rates were found in the Downtown Community Area in both time periods.
- The following community areas experienced an increase in the *All Injury* hospitalization rate between the two time periods: Assiniboine South and St. Boniface.
- The following community areas experienced a decrease in the *All Injury* hospitalization rate between the two time periods: St. James-Assiniboia, Transcona, and River East.
- The following community areas had *All Injury* hospitalization rates that were higher than that of the WHR (in  $t_2$ ): Point Douglas, Downtown, and River Heights.
- The highest rates of *Unintentional Injury* hospitalization were found in the following community areas: Downtown and Point Douglas in both time periods.
- The following community areas had *Unintentional Injury* hospitalization rates that were higher than that of the WHR (in  $t_2$ ): Point Douglas, Downtown, and River Heights.
- The lowest rates of *Self-inflicted Injury* hospitalization were found in community areas Assiniboine South for  $t_1$  and in Transcona for  $t_2$ .
- The highest rates of *Self-inflicted Injury* hospitalization were found in the following community areas: Downtown and Point Douglas in both time periods.
- The following community areas had *Self-inflicted Injury* rates that were higher than that of the WHR (in  $t_2$ ): Point Douglas, Downtown, and St. Boniface.
- The highest rates of *Assault Injury* were found in community areas Downtown and Point Douglas in both time periods. These rates were substantially higher than that of the WHR.
- It should be noted that in community areas Point Douglas and Downtown the percentage of assault injuries of total injury hospitalization is about twice that of the WHR. For example in 2000-2002, *Assault Injury* accounted for 16.1% of *All Injury* hospitalizations in Point Douglas compared to just 7.2% for the WHR as a whole. In Downtown, in 2000-2002 this percentage was slightly lower at 13.6%.

### Injuries by Age Group

#### Children

##### under 1 year, 1-4, 5-9, 10-14 year-olds

- 2305 children were hospitalized due to injury in the period of 1997-2002.

- The All Injury rate ranges from 248.5 to 363.8 hospitalizations per 100 000 population among the children's age groups.
- *Unintentional injury* makes up the greatest percentage of injuries experienced by children

## Youth

### 15-19 year-olds

- 1641 youth were hospitalized due to injury in the period of 1997-2002. The *All Injury* rate is 657.7 hospitalizations per 100 000 population for 15-19 year-olds.
- Most noteworthy are the dramatic increases in the *Self-inflicted* and *Assault Injury* hospitalizations rates for Youth.
- Youth have the highest rate of *Self-inflicted Injury* hospitalizations compared to all other age groups presented here.

### 20-24 year-olds

- 1630 young adults were hospitalized due to injury in the period of 1997-2002. The *All Injury* rate is 617.7 hospitalizations per 100 000 population for 20-24 year-olds.
- *Self-inflicted* and *Assault Injuries* make-up a substantial proportion of injuries.

## Adults

### 25-44 and 45-64 year-olds

- 11 052 adults were hospitalized due to injury in the period of 1997-2002. The *All Injury* rate is 526.4 and 528.4 hospitalizations per 100 000 population for 25-44 year-olds and 45-65 year-olds, respectively.
- *Self-inflicted* and *Assault Injury* hospitalization rates are higher for the 25-44 year-old group compared to the 45-64 year-old group. However, both rates are substantially lower than that for Young Adults.

## Seniors

### 65-74, 75-84, and 85+ year-olds

- 12 505 seniors were hospitalized due to injury in the period of 1997-2002.
- The *All Injury* rate is 993.3, 2657.9 and 6604.6 hospitalizations per 100 000 population 65-74, 75-84, and 85+ year-olds, respectively.
- The highest injury rate is experienced by the 85+ group: 6604.4 per 100 000 population (n=4557 injury events).
- *Unintentional Injury* comprises over 96% of injuries for the senior age groups in the WHR.