

Supplementary Table S1. Number of First Concussion-Related Emergency Department Visits and Rate of Comorbid Neck Injuries per 100,000 Concussion-Related Emergency Department Visits in Ontario, Canada, 2002/2003–2011/2012, by Age Groups and Sex

Characteristic	All concussions						MYC-related concussions						Sports-related concussions					
	Rate of comorbid neck injuries						Rate of comorbid neck injuries						Rate of comorbid neck injuries					
	Overall	Males	Females	Overall	Males	Females	Overall	Males	Females	Overall	Males	Females	Overall	Males	Females			
Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)	Total No. of concussions (%)			
Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000	Rate per 100,000			
Overall	90,175	52,418	37,757	8,134	4,327	3,807	11,978	3,219	21,298	2,794	9,176	4,207	3,555	2,995	4,333	4,333		
Age group, years																		
0–4	3,701 (4.1)	2,002 (3.8)	1,699 (4.5)	54 (0.7)	29 (0.7)	25 (0.7)	0	0	310 (1.0)	166 (0.8)	144 (1.6)	420	270	270	270	270		
5–9	6,234 (6.9)	4,047 (7.7)	2,187 (5.8)	158 (1.9)	99 (2.3)	59 (1.5)	n < 6	n < 6	2,261 (7.4)	1,605 (7.5)	1,184	1,184	866	866	866	866		
10–14	16,560 (18.4)	11,583 (22.1)	4,977 (13.2)	395 (4.9)	225 (5.2)	170 (4.5)	5,063	5,333	9,761 (32.0)	7,342 (34.5)	3,187	3,187	2,826	2,826	2,826	2,826		
15–19	18,639 (20.7)	11,720 (22.4)	6,919 (18.3)	1,569 (19.3)	823 (19.0)	746 (19.6)	7,712	5,832	9,816 (32.2)	6,889 (32.3)	2,744	2,744	3,482	3,482	3,482	3,482		
20–24	8,147 (9.0)	4,722 (9.0)	3,425 (9.1)	1,193 (14.7)	642 (14.8)	551 (14.5)	10,226	8,411	2,189 (7.2)	1,462 (6.9)	3,010	3,010	4,087	4,087	4,087	4,087		
25–29	5,509 (6.1)	4,338 (8.2)	2,369 (6.3)	826 (10.2)	472 (10.9)	354 (9.3)	9,564	8,686	1,393 (4.6)	936 (4.4)	2,885	2,885	4,338	4,338	4,338	4,338		
30–34	4,619 (5.1)	5,434 (10.4)	2,107 (5.6)	651 (8.0)	353 (8.2)	298 (7.8)	13,978	11,615	1,007 (3.3)	626 (2.9)	2,716	2,716	4,619	4,619	4,619	4,619		
35–39	4,499 (5.0)	4,957 (9.4)	3,993 (10.7)	616 (7.6)	329 (7.6)	287 (7.5)	13,961	11,246	896 (2.9)	553 (2.6)	3,437	3,437	4,957	4,957	4,957	4,957		
40–44	4,585 (5.1)	5,387 (10.2)	4,470 (11.9)	626 (7.7)	324 (7.5)	302 (7.9)	13,961	11,246	875 (2.9)	511 (2.4)	3,644	3,644	5,387	5,387	5,387	5,387		
45–49	4,133 (4.6)	5,250 (10.0)	4,841 (12.7)	570 (7.0)	285 (6.6)	285 (7.5)	12,456	11,579	729 (2.4)	433 (2.0)	3,464	3,464	5,250	5,250	5,250	5,250		
50–54	3,503 (3.9)	1,587 (3.0)	1,916 (5.1)	445 (5.5)	225 (5.2)	220 (5.8)	13,258	13,333	481 (1.6)	293 (1.4)	3,754	3,754	1,587	1,587	1,587	1,587		
55–59	2,821 (3.1)	4,325 (8.2)	1,523 (4.0)	353 (4.3)	189 (4.4)	164 (4.3)	12,465	10,582	290 (1.0)	179 (0.8)	1,112	1,112	4,325	4,325	4,325	4,325		
60–64	2,036 (2.3)	3,929 (7.5)	1,076 (2.8)	225 (2.8)	117 (2.7)	108 (2.8)	9,333	10,256	203 (0.7)	125 (0.6)	1,112	1,112	3,929	3,929	3,929	3,929		
65–69	1,486 (1.6)	693 (1.3)	793 (2.1)	148 (1.8)	74 (1.7)	74 (1.9)	13,514	13,514	135 (0.4)	88 (0.4)	1,112	1,112	1,486	1,486	1,486	1,486		
70–74	1,180 (1.3)	567 (1.1)	3,175 (8.4)	115 (1.4)	55 (1.3)	60 (1.6)	7,826	5,610	64 (0.2)	40 (0.2)	24 (0.3)	24	1,180	1,180	1,180	1,180		
75–79	1,013 (1.1)	2,172 (4.1)	576 (1.5)	100 (1.2)	45 (1.0)	55 (1.4)	7,000	6,083	40 (0.1)	28 (0.1)	0	0	2,172	2,172	2,172	2,172		
80–84	827 (0.9)	324 (0.6)	503 (1.3)	62 (0.8)	29 (0.7)	33 (0.9)	n < 6	n < 6	17 (0.1)	NR <sup>a</sup>	0	0	1,013	1,013	1,013	1,013		
85+	683 (0.8)	232 (0.4)	451 (1.2)	28 (0.3)	12 (0.3)	16 (0.4)	n < 6	n < 6	7 (0.0)	NR <sup>a</sup>	0	0	683	683	683	683		

n < 6—cell size less than 6.

<sup>a</sup>Data are NR due to residual disclosure of small cell size (n < 6).

ED, emergency department; MVC, motor vehicle collision; NR, not reported.