

Appendix 3 (as supplied by the authors): Associations between mechanism of injury leading to traumatic brain injury hospitalization and health regions using multinomial regression for the complete-case analysis.

Region and mechanism of injury	Relative probability ratio	95% confidence interval
Nord-du-Québec		
Assault	1.47	0.69 , 3.11
All-terrain vehicle	4.11	2.28 , 7.38
Snowmobile	4.66	1.12 , 19.37
Nunavik		
Assault	11.77	8.40 , 16.48
All-terrain vehicle	38.06	28.40 , 51.00
Snowmobile	32.77	18.59 , 57.78
Terres-Cries-de-la-Baie-James		
Assault	10.69	6.81 , 16.80
All-terrain vehicle	6.06	3.38 , 10.87
Snowmobile	34.20	16.97 , 68.94

The referent population is the entire province of Québec and the referent mechanism of injury is falls. The model was adjusted for age and sex. The rest of the output is available below.

Coefficient	Relative probability ratio	95% confidence interval
Intercept: Assault	0.08	0.07 - 0.09
Intercept :ATV	0.07	0.06-0.08
Intercept : Bicycle	0.25	0.23-0.27
Intercept :Motorcycle	0.04	0.03-0.05
Intercept :MVC	0.84	0.79-0.89
Intercept :Other	0.35	0.32-0.37
Intercept :Pedestrian	0.21	0.19-0.23
Intercept :Recreation	0.05	0.04-0.07
Intercept :Ski	0.01	0.00-0.01
age: Assault	0.98	0.97-0.98
age:ATV	0.97	0.97-0.98
age : Bicycle	0.97	0.97-0.97
age :Motorcycle	0.98	0.98-0.99
age :MVC	0.98	0.98-0.98
age :Other	0.97	0.97-0.98
age :Pedestrian	0.99	0.99-0.99
age :Recreation	0.98	0.97-0.98
age :Ski	0.98	0.97-0.98
regionqc10: Assault	1.47	0.69-3.11
regionqc10:ATV	4.11	2.28-7.38
regionqc10: Bicycle	0.93	0.44-1.97
regionqc10:Motorcycle	0.00	0.00-Infinity
regionqc10:MVC	1.18	0.75-1.84
regionqc10:Other	1.45	0.84-2.50
regionqc10:Pedestrian	0.62	0.22-1.71
regionqc10:Recreation	1.03	0.14-7.50
regionqc10:Ski	4.66	1.12-19.37
region17: Assault	11.77	8.40-16.48
region17:ATV	38.06	28.40-51.00

region17: Bicycle	0.75	0.38-1.51
region17:Motorcycle	4.23	2.28-7.87
region17:MVC	1.06	0.72-1.56
region17:Other	1.40	0.88-2.23
region17:Pedestrian	2.40	1.51-3.83
region17:Recreation	1.13	0.27-4.63
region17:Ski	32.77	18.59-57.78
region18: Assault	10.69	6.81-16.80
region18:ATV	6.06	3.38-10.87
region18: Bicycle	1.00	0.44-2.25
region18:Motorcycle	0.00	0-Infinity
region18:MVC	1.71	1.08-2.72
region18:Other	0.71	0.32-1.60
region18:Pedestrian	0.60	0.18-1.94
region18:Recreation	5.88	2.29-15.13
region18:Ski	34.20	16.97-68.94
Sexmale: Assault	3.95	3.47-4.49
Sexmale :ATV	3.09	2.69-3.56
Sexmale : Bicycle	2.18	1.99-2.39
Sexmale :Motorcycle	2.69	2.27-3.19
Sexmale :MVC	1.28	1.21-1.35
Sexmale :Other	1.86	1.72-2.00
Sexmale :Pedestrian	0.79	0.73-0.86
Sexmale :Recreation	0.57	0.46-0.71
Sexmale :Ski	3.12	2.14-4.54