

Variable	Adherent to the protocol			Non-adherent to the protocol		
	<i>N</i>	CG ( <i>n</i> =89)	EG ( <i>n</i> =77)	<i>N</i>	CG ( <i>n</i> =140)	EG ( <i>n</i> =150)
<b>Age (year), median (IQR)</b>	166	12.47 (11.20, 14.28)	12.96 (11.61, 14.35)	290	13.41 (11.75, 15.24)	13.36 (11.29, 14.93)
<b>Sex (Female), frequency (%)</b>	166	47 (52.8)	33 (42.9)	290	53 (37.9)	68 (45.3)
<b>Time from head injury to triage (hour), median (IQR)</b>	165	3.10 (1.87, 19.00)	3.15 (1.82, 22.90)	288	2.80 (1.58, 17.15)	3.63 (1.57, 21.00)
<b>Personal migraine history, frequency (%)</b>	166	8 (9.0)	0 (0.0)	289	6 (4.3)	11 (7.4)
<b>Previous concussions, frequency (%)</b>	166	35 (39.3)	25 (32.5)	290	50 (35.7)	40 (26.7)
<b>Previous number of concussions (among those who had any previous concussions), median (IQR)</b>	60	1.00 (1.00, 2.00)	1.00 (1.00, 2.00)	90	1.00 (1.00, 2.00)	1.50 (1.00, 2.25)
<b>Symptom duration of prior concussion (week) <math>\geq 1</math>, frequency (%)</b>	60	24 (68.6)	16 (64.0)	90	32 (64.0)	29 (72.5)
<b>Mechanism of injury, frequency (%)</b>	166			288		
Occupant in motor vehicle collision (MVC)		2 (2.2)	0 (0.0)		4 (2.9)	0 (0.0)
Motorcycle accident		0 (0.0)	0 (0.0)		0 (0.0)	0 (0.0)
Motorized recreation vehicle accident		0 (0.0)	0 (0.0)		0 (0.0)	0 (0.0)
Pedestrian struck by auto		0 (0.0)	0 (0.0)		1 (0.7)	0 (0.0)
Bike struck by auto		0 (0.0)	0 (0.0)		0 (0.0)	0 (0.0)
Bike collision or fall while riding		0 (0.0)	0 (0.0)		4 (2.9)	0 (0.0)
Fall from an elevation (including playground equipment)		3 (3.4)	1 (1.3)		5 (3.6)	5 (3.4)
Fall downstairs		1 (1.1)	1 (1.3)		2 (1.4)	4 (2.7)
Sport		47 (52.8)	39 (50.6)		77 (55.4)	75 (50.3)
Fall from standing/walking/running		14 (15.7)	11 (14.3)		13 (9.4)	25 (16.8)
Ran into a stationary object		5 (5.6)	7 (9.1)		6 (4.3)	6 (4.0)

Other mechanism		17 (19.1)	18 (23.4)		27 (19.4)	34 (22.8)
<b>Loss of consciousness, frequency (%)</b>	166	10 (11.2)	14 (18.2)	290	28 (20.0)	29 (19.3)
<b>Duration of loss of consciousness, frequency (%)</b>	24			57		
<1 min		9 (90.0)	11 (78.6)		20 (71.4)	20 (69.0)
1-5 min		1 (10.0)	2 (14.3)		7 (25.0)	8 (27.6)
>5 min		0 (0.0)	1 (7.1)		1 (3.6)	1 (3.4)
<b>Seizure, frequency (%)</b>	166	0 (0.0)	2 (2.6)	290	1 (0.7)	1 (0.7)
<b>Answers questions slowly, frequency (%)</b>	166	37 (41.6)	38 (49.4)	290	57 (40.7)	72 (48.0)
<b>Headache, frequency (%)</b>	166	77 (86.5)	69 (89.6)	290	135 (96.4)	136 (90.7)
<b>Sensitivity to noise, frequency (%)</b>	166	53 (59.6)	49 (63.6)	290	73 (52.1)	79 (52.7)
<b>Fatigue, frequency (%)</b>	166	75 (84.3)	69 (89.6)	290	117 (83.6)	131 (87.3)
<b>Balance error score tandem stance <math>\geq 4</math>, frequency (%)</b>	166	17 (19.1)	19 (24.7)	289	29 (20.9)	36 (24.0)
<b>HBI score in the ED, median (IQR)</b>	166	25.00 (17.00, 31.00)	21.00 (14.00, 30.00)	288	23.00 (15.00, 30.00)	25.50 (17.75, 33.00)
<b>HBI score at 2 weeks, median (IQR)</b>	151	16.00 (7.00, 26.00)	12.00 (4.00, 17.00)	-	-	-

Note: CG=control group, EG= experimental group, IQR=interquartile range, HBI= Health and Behaviour Inventory, ED= Emergency Department.