

Appendix 2. Adolescent and parent knowledge on statements associated with concussion, concussion signs and symptoms, recognition, and concussion management

	Adolescents (n=113)			Parents (n=151)		
	<i>Agree</i>	<i>Disagree</i>	<i>Neither</i>	<i>Agree</i>	<i>Disagree</i>	<i>Neither</i>
Sports-related concussion statements (%)						
A concussion is a serious injury	98.2	0.0	1.8	99.4	0.7	0.0
An underage player with suspected concussion should not return to play that day	92.1	2.7	5.3	96.0	3.3	0.7
Long term complications include memory loss, confusion, personality changes, movement disorders	78.8	9.7	11.5	92.7	2.0	5.3
A concussion could result in death	77.0	15.1	8.0	82.5	5.3	11.9
A player can become concussed without having received a direct blow to the head	54.0	31.9	14.2	62.9	17.3	19.9
Concussion symptoms are always immediately present after the injury occurs	45.2	44.2	10.6	21.2	69.2	10.6
Loss of consciousness is necessary to be concussed	27.4	61.9	10.6	26.5	68.9	4.6
Sports-related concussion management (%)	<i>Agree</i>	<i>Disagree</i>	<i>Neither</i>	<i>Agree</i>	<i>Disagree</i>	<i>Neither</i>
Adolescent player needs complete rest for 24 hours	91.1	3.5	5.4	80.8	6.6	12.6
A standardized return to play protocol exists	70.8	18.6	10.6	58.3	18.5	23.2
Medical professional can provide rehabilitation	72.5	15.0	12.4	47.0	28.5	24.5
Rehabilitation is pointless as only time will fix a concussion	40.7	35.4	23.9	35.7	28.5	35.8
True signs & symptoms (%)	<i>Yes</i>	<i>No</i>	<i>I don't know</i>	<i>Yes</i>	<i>No</i>	<i>I don't know</i>
Dizziness	100.0	0.0	0.0	96.0	2.6	1.3
Headache	99.1	0.9	0.0	95.4	3.3	1.3
Confusion	98.2	0.9	0.9	96.0	4.0	0.0
Feeling in a cloud/haze	92.9	0.9	6.2	94.0	0.7	5.3
Poor balance	92.0	5.3	2.7	96.0	1.3	2.6
Double Vision	91.2	3.5	5.3	95.4	0.7	4.0
Memory loss	85.8	8.8	5.3	89.4	4.6	6.0
Fatigue	85.0	7.1	8.0	82.1	9.9	7.9
Slurred speech	83.2	8.8	8.0	80.1	7.9	11.9

Nausea	73.5	16.8	9.7	86.8	7.3	6.0
Sensitivity to light	70.8	15.0	14.2	74.8	9.3	15.9
Increased emotional behaviour (sad, angry, scared, worried etc)	60.2	16.8	23.0	55.6	16.6	27.8
Vomiting	54.9	29.2	15.9	76.8	14.6	8.6
Agitation	48.7	34.5	16.8	62.9	14.6	22.5
False signs & symptoms (%)	<i>Yes</i>	<i>No</i>	<i>I don't know</i>	<i>Yes</i>	<i>No</i>	<i>I don't know</i>
Bruising on the face	13.3	69.9	16.8	24.5	49.0	26.5
Bleeding from the head/face	12.4	71.7	15.9	27.8	42.4	29.8
Increased thirst	9.7	68.1	22.1	20.5	35.8	43.7
Excessive sweating	6.2	75.2	18.6	21.9	35.8	42.4
Increased need to use the toilet	4.4	72.6	23.0	9.3	39.1	51.7
Toothache	2.7	80.5	16.8	7.3	55.6	37.1
Loss of smell	2.7	76.1	21.2	18.5	40.4	41.1