

Pre-Season Concussion Education Sheet

What is a concussion?

A concussion is a brain injury that can't be seen on x-rays, CT or MRI scans. It affects the way an athlete thinks and can cause a variety of symptoms.

What causes a concussion?

Any blow to the head, face or neck, or somewhere else on the body that causes a sudden jarring of the head may cause a concussion. Examples include getting body-checked in hockey or hitting one's head on the floor in gym class.

When should I suspect a concussion?

A concussion should be suspected if an athlete sustains an impact to the head, face, neck or body and:

- demonstrates one or more observable signs of a suspected concussion, OR
- reports one or more symptoms of suspected concussion.

Some athletes will develop symptoms immediately while others will develop delayed symptoms (up to 48 hours after the injury).

What are the observable signs of a suspected concussion?

Signs of a concussion may include:

- Lying motionless on the playing surface
- Slow to get up after a direct or indirect hit to the head
- Disorientation or confusion, or inability to respond appropriately to questions
- Unresponsive
- Unsteady on feet, balance problems, poor co-ordination, wobbly
- ► Blank or vacant stare
- Facial injury

What are the symptoms of a suspected concussion?

A person does not need to be knocked out (lose consciousness) to have had a concussion. Common symptoms include:

- Headaches or head pressure
- Dizziness
- Nausea or vomiting
- Blurred or fuzzy vision
- Sensitivity to light or sound
- Balance problems
- Feeling tired or having no energy
- Not thinking clearly
- "Don't feel right"

- Feeling more emotional, easily upset or
- Sadness
- Nervousness or anxiety
- Difficulty concentrating
- Difficulty remembering
- Feeling like "in a fog"
- Feeling slowed down
- Sleeping more or sleeping less
- Having a hard time falling asleep

What should I do if I suspect a concussion?

In all cases of suspected concussion, the athlete should be removed from the activity immediately and undergo medical assessment as soon as possible. It is important that all athletes with a concussion receive written medical clearance from a medical doctor or nurse practitioner before returning to sport activities with a risk of contact or falls.

When can the athlete return to school and sport?

It is important that all athletes diagnosed with a concussion follow a step-wise return to school (if applicable) and sports-related activities that includes the following Return-to-School and Return-to-Sport Strategies. Note that these strategies begin at the same time, can happen concurrently and the first step of both is the same. It is important that athletes return to full-time school activities, if applicable, and provide a medical clearance letter before progressing to step 4 of return to sport.

Return-to-School Strategy

Step	Activity	Description	Goal of each step
1	Activities of daily living and relative rest (first 24- 48 hours)	Typical activities at home (e.g. preparing meals, social interactions, light walking). Minimize screen time.	Gradual reintroduction of typical activities
2	School activities with encouragement to return to school (as tolerated)	Homework, reading or other light cognitive activities at school or home. Take breaks and adapt activities as needed. Gradually resume screen time, as tolerated.	Increase tolerance to cognitive work and connect socially with peers
3	Part-time or full days at school with accommodations	Gradually reintroduce schoolwork. Part-time school days with access to breaks and other accommodations may be required. Gradually reduce accommodations related to the concussion and increase workload.	Increase academic activities
4	Return to school full-time	Return to full days at school and academic activities, without accommodations related to the concussion.	Return to full academic activities

Return-to-Sport Strategy

Step		Description	Goal of each step		
1	Activities of daily living	Typical activities at home (e.g. preparing	Gradual reintroduction of		
	and relative rest (first 24-	meals, social interactions, light walking).	typical activities.		
	48 hours)	Minimize screen time.			
2	2A: Light effort aerobic	Walking or stationary cycling at slow to	Increase heart rate.		
	exercise	medium pace. May begin light resistance			
	2B: Moderate effort	training. Gradually increase intensity of			
	aerobic exercise	aerobic activities, such as stationary			
		cycling and walking at a brisk pace.			
3	Individual sport-specific	Add sport-specific activities (e.g., running,	Increase the intensity of		
	activities, without risk of	changing direction, individual drills).	aerobic activities and		
	inadvertent head impact	Perform activities individually and under	introduce low-risk sport-		
		supervision.	specific movements.		
	Medical clearance				
4	Non-contact training drills	Exercises with no body contact at high	Resume usual intensity of		
	and activities	intensity. More challenging drills and	exercise, co-ordination and		
		activities (e.g., passing drills, multi-athlete	activity-related cognitive skills.		
		training and practices).			
5	Return to all non-	Progress to higher-risk activities including	Return to activities that have a		
	competitive activities, full-	typical training activities, full-contact sport	risk of falling or body contact,		
	contact practice and	practices and physical education class	restore confidence and assess		
	physical education	activities. Do not participate in competitive	functional skills by coaching		
	activities	gameplay.	staff.		
6	Return to sport	Unrestricted sport and physical activity			

Tables adapted from: Patricios, Schneider et al., 2023; Reed, Zemek et al., 2023

How long will it take for the athlete to recover?

Most athletes who sustain a concussion will make a complete recovery within four weeks. Approximately 15-30% of patients will experience persisting symptoms (>4 weeks) that may require additional medical assessment and management.

How can I help prevent concussions and their consequences?

Concussion prevention, recognition and management require athletes to follow the rules and regulations of their sport, respect other participants, avoid head contact and report suspected concussions.

To learn more about concussions visit: www.parachute.ca/concussion

Signatures (Optional*): The following signatures certify that the athlete and their parent or legal guardian has reviewed the above information related to concussion.						
Printed name of athlete	Signature of athlete	Date				
Printed name of parent/guardian	Signature of parent/guardian	Date				
*This education sheet is a required accep season.	tance from all members upon registering fo	r a new membership				

Canadian Guideline on Concussion in Sport, 2nd edition | Pre-season Education Sheet www.parachute.ca/guideline