

Concussion Policy and Code

Preamble

1. This Policy is based on the 5th Consensus Statement on Concussion in Sport that was released in April 2017. This Policy interprets the information contained in the report that was prepared by the 2017 Concussion in Sport Group (CISG), a group of sport concussion medical practitioners and experts, and adapts concussion assessment and management tools.
2. This Policy is intended to be compliant with Ontario's *Rowan's Law (Concussion Safety), 2018*. If any provision of the policy conflicts with Rowan's Law, the legislation shall take precedence.
3. This Policy, while adopted by Boxing Ontario, is to be adopted, implemented, and followed by each of Boxing Ontario's clubs. Boxing Ontario shall disseminate and make available this Concussion Policy and Code to each one of its clubs to ensure each club recognizes how to diagnose and treat concussions.
4. The CISG suggested 11 'R's of Sport-Related Concussion ("SRC") management to provide a logical flow of concussion management. This Policy is similarly arranged. The 11 R's in this Policy are: Recognize, Remove, Re-Evaluate, Rest, Rehabilitation, Refer, Recover, Return to Sport, Reconsider, Residual Effects, and Risk Reduction.
5. A concussion is a clinical diagnosis that can only be made by a physician.

Purpose

6. BO is committed to ensuring the safety of Organizational Participants in its activities. BO recognizes the increased awareness of concussions and their long-term effects and believes that prevention of concussions is paramount to protecting the health and safety of Organizational Participants.
7. This Policy describes the common signs and symptoms of a concussion and how to identify them, the protocol to be followed in the event of a possible concussion, and a Return to Sport protocol should a concussion be diagnosed. Awareness of the signs and symptoms of concussion and knowledge of how to properly manage a concussion is critical to recovery and helping to ensure the individual is not returning to physical activities too soon, risking further complication.
8. This Policy applies to all activities and events for which BO is the governing or sanctioning body including, but not limited to, competitions, practices, and training sessions.

Registration

9. When an individual under the age of 26 years old registers with BO, the individual **must** provide written or electronic confirmation that they have reviewed concussion awareness resources within the past 12 months. The Ontario Government has produced age-appropriate concussion resources located here:
 - a) Ages 10 and under
 - b) Ages 11-14
 - c) Ages 15+
10. Individuals under the age of 26 years old must also sign the *Concussion Code of Conduct* (**Appendix A**).
11. For athletes younger than 18 years old, the athlete's parent or guardian **must** also provide confirmation that they have also reviewed the concussion resources as well and signed the *Concussion Code of Conduct*.
12. Coaches, officials and team trainers must provide confirmation that they have also reviewed the concussion resources and sign the *Concussion Code of Conduct*; but not if they will be interacting exclusively with athletes who are 26 years old or older.

Recognizing Concussions

13. If an Organizational Participant demonstrates or reports any of the following **red flags**, an on-site licensed healthcare professional shall be summoned and, if deemed necessary, an ambulance should be called¹:
 - a) Neck pain or tenderness
 - b) Double vision
 - c) Weakness or tingling / burning in arms or legs
 - d) Severe or increasing headache
 - e) Seizure or convulsion
 - f) Loss of consciousness
 - g) Deteriorating conscious state
 - h) Vomiting more than once

¹ If an onsite healthcare professional is not available, an ambulance should be called.

- i) Increasingly restless, agitated, or combative
- j) Increased confusion

14. The following **observable signs** may indicate a possible concussion:

- a) Lying motionless on the playing surface
- b) Slow to get up after a direct or indirect hit to the head
- c) Disorientation or confusion / inability to respond appropriately to questions
- d) Blank or vacant look
- e) Balance or gait difficulties, absence of regular motor coordination, stumbling, slow laboured movements
- f) Facial injury after head trauma

15. A concussion may result in the following **symptoms**:

- a) Headache or “pressure in head”
- b) Balance problems or dizziness
- c) Nausea or vomiting
- d) Drowsiness, fatigue, or low energy
- e) Blurred vision
- f) Sensitivity to light or noise
- g) More emotional or irritable
- h) “Don’t feel right”
- i) Sadness, nervousness, or anxiousness
- j) Neck pain
- k) Difficulty remembering or concentrating
- l) Feeling slowed down or “in a fog”

16. Failure to correctly answer any of these **memory questions** may suggest a concussion:

- a) What venue are we at today?

- b) Where was your last major competition?
- c) What day is it?
- d) What event are you participating in?

Removal from Sport Protocol

17. In the event of a Suspected Concussion where there are **observable signs** of a concussion, **symptoms** of a concussion, or a failure to correctly answer **memory questions**, the Organizational Participant should be immediately removed from participation by a designated person who is either an on-site staff member at one of BO's clubs and/or [insert other options for designated person].
18. After removal from participation, the following actions should be taken:
- a) The designated person who removed the Organizational Participant should consider calling 9-1-1;
 - b) BO must make and keep a record of the removal;
 - c) The designated person must inform the Organizational Participant's parent or guardian if the Organizational Participant is younger than 18 years old, and the designated person must inform the parent or guardian that the Organizational Participant is required to undergo a medical assessment by a physician or nurse practitioner before the Organizational Participant will be permitted to return to participation; and
 - d) The designated person will remind the Organizational Participant, and the Organizational Participant's parent or guardian as applicable, of BO's Return-to-Sport protocol as described in this Policy.
19. Organizational Participants who have a Suspected Concussion and who are removed from participation should:
- a) Be isolated in a dark room or area and stimulus should be reduced
 - b) Be monitored
 - c) Have any cognitive, emotional, or physical changes documented
 - d) Not be left alone (at least for the first 1-2 hours)
 - e) Not drink alcohol
 - f) Not use recreational/prescription drugs

- g) Not be sent home by themselves
 - h) Not drive a motor vehicle until cleared to do so by a medical professional
20. An Organizational Participant who has been removed from participation due to a suspected concussion should not return to participation until the Organizational Participant has been assessed medically, preferably by a physician who is familiar with the Sport Concussion Assessment Tool – 5th Edition (SCAT5) (for Organizational Participants over the age of 12) or the Child SCAT5 (for Organizational Participants between 5 and 12 years old), even if the symptoms of the concussion resolve.

Re-Evaluate

21. An Organizational Participant with a Suspected Concussion should be evaluated by a licensed physician who should conduct a comprehensive neurological assessment of the Organizational Participant and determine the Organizational Participant's clinical status and the potential need for neuroimaging scans.

Rest and Rehabilitation

22. Organizational Participants with a diagnosed SRC should rest during the acute phase (24-48 hours) but can gradually and progressively become more active so long as activity does not worsen the Organizational Participant's symptoms. Organizational Participants should avoid vigorous exertion.
23. Organizational Participants must consider the diverse symptoms and problems that are associated with SRCs. Rehabilitation programs that involve controlled parameters below the threshold of peak performance should be considered.

Refer

24. Organizational Participants who display persistent post-concussion symptoms (i.e., symptoms beyond the expected timeline for recovery – 10-14 days for adults and 4 weeks for children) should be referred to physicians with experience handling SRCs.

Recovery and Return to Sport

25. SRCs have large adverse effects on cognitive functioning and balance during the first 24-72 hours after injury. For *most* Organizational Participants, these cognitive defects, balance and symptoms improve rapidly during the first two weeks after injury. An important predictor of slower recovery from an SRC is the severity of the Organizational Participant's initial symptoms following the first few days after the injury.
26. The table below represents a graduated return to sport for most Organizational Participants, in particular those that did not experience high severity of initial symptoms after the following the first few days after the injury.

Table 1 – Return to Sport Strategy

Stage	Aim	Activity	Stage Goal
1	Symptom-limited activity	Daily activities that do not provoke symptoms	Gradual reintroduction of work/school activities
2	Light aerobic exercise	Walking or stationary cycling at slow to medium pace. No resistance training	Increase heart rate
3	Sport-specific exercise	Light drills. No head impact activities	Add movement
4	Non-contact training drills	Harder training drills. May start progressive resistance training	Exercise, coordination and increased thinking
5	Full contact practice	Following medical clearance, participate in normal training activities	Restore confidence and assess functional skills by coaching staff
6	Return to sport	Normal participation	

27. An initial period of 24-48 hours of both physical rest and cognitive rest is recommended before beginning the Return to Sport strategy.
28. There should be at least 24 hours (or longer) for each step. If symptoms reoccur or worsen, the Organizational Participant should go back to the previous step.
29. Resistance training should only be added in the later stages (Stage 3 or Stage 4).
30. If symptoms persist, the Organizational Participant should return to see a physician.
31. The Organizational Participant's Return-to-Sport strategy should be guided and approved by a physician with regular consultations throughout the process.
32. The Organizational Participant must provide BO with a medical clearance form, signed by a physician, following Stage 5 and before proceeding to Stage 6.

Reconsider

33. The 2017 Concussion in Sport Group (CISG) considered whether certain populations (children, adolescents, and elite athletes) should have SRCs managed differently.
34. It was determined that all Organizational Participants, regardless of competition level, should be managed using the same SRC management principles.
35. Adolescents (13 to 18 years old) and children (5 to 12 years old) should be managed differently. SRC symptoms in children persist for up to four weeks. More research was recommended for how these groups should be managed differently, but the CISG recommended that children and adolescents should first follow a Return to School strategy before they take part in a Return to Sport strategy. A Return to School strategy is described below.

Table 2 – Return to School Strategy

Stage	Aim	Activity	Stage Goal
1	Daily activities at home that do not give the child symptoms	Typical activities of the child during the day as long as they do not increase symptoms (e.g., reading, texting, screen time). Start with 5–15 min at a time and gradually build up	Gradual return to typical activities
2	School activities	Homework, reading or other cognitive activities outside of the classroom	Increase tolerance to cognitive work
3	Return to school part-time	Gradual introduction of schoolwork. May need to start with a partial school day or with increased breaks during the day	Increase academic activities

4	Return to school full time	Gradually progress school activities until a full day can be tolerated	Return to full academic activities and catch up on missed work
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Residual Effects

36. Organizational Participants should be alert for potential long-term problems such as cognitive impairment and depression. The potential for developing chronic traumatic encephalopathy (CTE) should also be a consideration, although the CISG stated that *“a cause-and-effect relationship has not yet been demonstrated between CTE and SRCs or exposure to contact sports. As such, the notion that repeated concussion or subconcussive impacts cause CTE remains unknown.”*

Risk Reduction and Prevention

37. BO recognizes that knowing an Organizational Participant’s SRC history can aid in the development of concussion management and the Return to Sport strategy. The clinical history should also include information about all previous head, face, or cervical spine injuries. BO encourages Organizational Participants to make coaches and other stakeholders aware of their individual histories.

Non-Compliance

38. Failure to abide by any of the guidelines and/or protocols contained within this policy may result in disciplinary action in accordance with BO’s policies for discipline and complaints.

Liability

39. BO shall not be liable for any Organizational Participant or other individual’s use or interpretation of this Policy. Further, none of BO’s members, directors, officers, employees, agents, representatives and other individuals involved in any way in the administration of this Policy shall be liable to any other individual in any way, in relation to any lawful acts or omissions committed in the honest application, administration, and/or enforcement of this Policy.

Concussion Code of Conduct (Appendix A)

PART A

The following section of the *Concussion Code of Conduct* must be signed by all Organizational Participants under the age of 26 years old. For Organizational Participants who are younger than 18 years old, a parent/guardian must also sign this section.

I will help prevent concussions by:

- Wearing the proper equipment for my sport and wearing it correctly.
- Developing my skills and strength so that I can participate to the best of my ability.
- Respecting the rules of my sport or activity.
- Demonstrating my commitment to fair play and respect for all (respecting other athletes, coaches, team trainers and officials).

I will care for my health and safety by taking concussions seriously, and I understand that:

- A concussion is a brain injury that can have both short-term and long-term effects.
- A blow to my head, face or neck, or a blow to the body that causes the brain to move around inside the skull may cause a concussion.
- I don't need to lose consciousness to have had a concussion.
- I have a commitment to concussion recognition and reporting, including self-reporting of possible concussion and reporting to a designated person when and individual suspects that another individual may have sustained a concussion. (Meaning: If I think I might have a concussion I should stop participating in further training, practice or competition **immediately**, and I will tell an adult if I think another athlete has a concussion).
- Continuing to participate in further training, practice or competition with a possible concussion increases my risk of more severe, longer lasting symptoms, and increases my risk of other injuries.

I will not hide concussion symptoms. I will speak up for myself and others.

- I will not hide my symptoms. I will tell a coach, official, team trainer, parent or another adult I trust if I experience **any** symptoms of concussion.
- If someone else tells me about concussion symptoms, or I see signs they might have a concussion, I will tell a coach, official, team trainer, parent or another adult I trust so they can help.

- I understand that if I have a suspected concussion, I will be removed from sport and that I will not be able to return to training, practice or competition until I undergo a medical assessment by a medical doctor or nurse practitioner and have been medically cleared to return to training, practice or competition.
- I have a commitment to sharing any pertinent information regarding incidents of removal from sport with my school and any other sport BO with which I have registered. (Meaning: If I am diagnosed with a concussion, I understand that letting all of my other coaches and teachers know about my injury will help them support me while I recover).

I will take the time I need to recover, because it is important for my health.

- I understand my commitment to supporting the return-to-sport process and I will follow my sport’s Return-to-Sport Protocol.
- I understand I will have to be medically cleared by a medical doctor or nurse practitioner before returning to training, practice or competition.
- I will respect my coaches, team trainers, parents, health-care professionals, and medical doctors and nurse practitioners, regarding my health and safety.

By signing here, I acknowledge that I have fully reviewed and commit to this *Concussion Code of Conduct*.

_____	_____	_____
Name of Organizational Participant	Signature of Organizational Participant	Date of Birth
_____	_____	_____
Name of Parent or Guardian (print)	Signature of Parent or Guardian	Date

PART B

The following section of the *Concussion Code of Conduct* must be signed by all coaches and team trainers who interact with Organizational Participants under the age of 26 years old.

I can help prevent concussions through my:

- Efforts to ensure that my athletes wear the proper equipment and wear it correctly.
- Efforts to help my athletes develop their skills and strength so they can participate to the best of their abilities.
- Respect for the rules of my sport or activity and my efforts to ensure that my athletes do too.
- Commitment to fair play and respect for all (respecting other coaches, team trainers, officials and all Organizational Participants and ensuring my athletes respect others and play fair).

I will care for the health and safety of all Organizational Participants by taking concussions seriously. I understand that:

- A concussion is a brain injury that can have both short-term and long-term effects.
- A blow to the head, face, or neck, or a blow to the body may cause the brain to move around inside the skull and result in a concussion.
- A person doesn't need to lose consciousness to have had a concussion.
- An athlete with a suspected concussion should stop participating in training, practice or competition **immediately**.
- I have a commitment to concussion recognition and reporting, including self-reporting of possible concussion and reporting to a designated person when an individual suspects that another individual may have sustained a concussion.
- Continuing to participate in further training, practice or competition with a suspected concussion increases a person's risk of more severe, longer lasting symptoms, and increases their risk of other injuries or even death.

I will create an environment where Organizational Participants feel safe and comfortable speaking up. I will:

- Encourage athletes not to hide their symptoms, but to tell me, an official, parent or another adult they trust if they experience **any** symptoms of concussion after an impact.
- Lead by example. I will tell a fellow coach, official, team trainer and seek medical

attention by a physician or nurse practitioner if I am experiencing any concussion symptoms.

- Understand and respect that any athlete with a suspected concussion must be removed from sport and not permitted to return until they undergo a medical assessment by a physician or nurse practitioner and have been medically cleared to return to training, practice or competition.
- *For coaches only:* Commit to providing opportunities before and after each training, practice and competition to enable athletes to discuss potential issues related to concussions.

I will support all Organizational Participants to take the time they need to recover.

- I understand my commitment to supporting the Return-to-Sport process.
- I understand the athletes will have to be cleared by a physician or nurse practitioner before returning to sport.
- I will respect my fellow coaches, team trainers, parents, physicians and nurse practitioners and any decisions made with regards to the health and safety of my athletes.

By signing here, I acknowledge that I have fully reviewed and commit to this *Concussion Code of Conduct*.

Name and role (print)

Signature

Date