Appendix A

CONCUSSION MANAGEMENT

RECOMMENDATIONS FOR RETURN TO CONTACT SPORT AFTER MULTIPLE CONCUSSIONS

• NO SAME DAY RETURN TO PLAY!

- If positive neuroimaging findings \rightarrow Take at least 3 months off from contact sport.
- If 2 concussions in 3 months \rightarrow Take 6 months off from the time of most recent injury.
- If 3 or more concussions in 1 year → Take 1 year off from the time of the most recent injury.

• Discuss retirement from contact sports after 3 concussions, considering non-contact alternatives, especially if symptoms are prolonged and affecting performance.

BUT CONTINUE TO EXERCISE!

CONCUSSION FACTS

The **biggest** risk is going back to play before the brain heals and getting another concussion!

Management Tips

Drink water regularly
Get substantial rest (8-10 hours of sleep)

 Do not skip meals
 Wear sunglasses or noise cancelling headphones if sensitive to light or noise

Higher risk of prolonged recovery with:

- Multiple concussions
- History of learning or behaviour problems
- History of migraines
- Symptoms of amnesia, fogginess or dizziness

Time in Each Stage/How long will it take for me to get through each stage? Average time in each stage is based on research from McMaster's Back to Play Study.

RETURN TO ACTIVITY

| Stage 1: | 1-2 days |
|-------------------|--------------------|
| Stage 2: | 7-10 days |
| Stage 3: | 7 days |
| Stage 4: | 7 days |
| Stage 5: | |
| Fully back to gam | e play in 4-5 week |

Note: Different people recover at different rates depending on many factors, including severity of injury and previous health history. These timelines are meant to help set expectations and to be used as a guide. If you are worried about the pace of your recovery, contact a physician or brain injury specialist.

CanChild



For more information, please visit www.canchild.ca





RETURN TO ACTIVITY GUIDELINES FOR CHILDREN AND YOUTH



A CONCUSSION

is a brain injury and must be taken seriously

RETURN TO ACTIVITY GUIDELINES

CONCUSSION

A concussion also known as a mild traumatic brain injury, changes

STAGES 1-3 of the Return to Activity (RTA) and Return to School (RTS) guidelines should progress together, however youth should return full-time to school activities before progressing to STAGE 4, and 5 of the RTA guidelines

| full-time to school activities before progressing to STAGE 4, and 5 of the RTA guidelines | | | the way the brain functions. A |
|---|--|--|--|
| stage | Short Phase of of symptoms. No physical activities of any intensity for longer than 5 minutes, as long as these activities do not increase symptoms. | | concussion can be caused by a direct or indirect hit, blow, or force to the head or body. |
| | with Symptom Guided Activity A AFTER INJURY | WHICH SYMPTOM GROUP ARE YOU IN? A B or C SYMPTOM FREE WITHIN 48 HOURS SYMPTOM FREE/SYMPTOMS DECREASE SYMPTOMATIC FOR MORE | SYMPTOMS OF |
| | | AAFTER INJURYDWITHIN 1-4 WEEKS AFTER INJURYDTHAN 4 WEEKSTake at least 24 hours for each stage as youTake at least 2 days for each stage as youTake at least 1 week for each stage as you | • Headache |
| STAGE | Light Exercise (No Contact) | Begin no later than 2 weeks post injury if symptoms are decreasing. GOAL: In addition to activities accomplished in Stage 1, complete 15-30 minutes of light physical activity twice daily without worsening symptoms for a total of ~ 1 hour per day. LIGHT ACTIVITIES: Walking, stationary cycling, swimming, stretching. NO resistance training or weight lifting. | Dizziness, nausea or vomiting Sleep disturbance or drowsiness Poor balance or coordination Visual problems Sensitivity to light or noise |
| STAGE | Individual Sport-Specific Activity (No Contact) | GOAL: Able to complete activity requirements for Stages 1 and 2, with two additional 30-minute sessions of moderate physical activity daily without worsening symptoms for a total of ~ 2 hours per day. MODERATE ACTIVITIES: Skating, light jogging, throwing. | Mentally foggy Difficulty concentrating/ remembering Emotional changes (anxiety, irritability, sadness) |
| stage | Sport Specific Practice with Team (No Contact) | GOAL: Able to complete activity requirements for Stages 1-3, with two additional 30-minute sessions of moderate/vigorous physical activity for no more than 3 hours per day. By the end of the stage, progress to full team practice with NO CONTACT. Increase skill level and difficulty as tolerated without worsening symptoms. MODERATE/VIGOROUS ACTIVITIES: Begin resistance training and general sport-specific conditioning skills with one other teammate. Throwing/passing a ball, sport-specific drills, and other non-contact activities. | RED FLAG SYMPTOMS |
| stage 5 | Sport-Specific Practice with Team (Contact) | GOAL: Able to complete activity requirements for Stages 1-4, participate in full practice and training activities as tolerated without worsening or causing symptoms. VIGOROUS ACTIVITIES: Running, cycling, jumping jacks. If symptom free, you are ready to return to competition! | If any of the following symptoms develop, go to the emergency department to seek further medical treatment immediately. • Increased drowsiness or cannot |
| stage | Return to Full Activity, Sport or Game Play (Contact) | Congratulations you have completed the Guidelines! If symptoms increase or return at any STAGE, reduce activity by returning to the previous stage for 24 hours. | be awakened Headaches or neck pain worsen Persistent vomiting Unequal pupil size Seizures Confusion or short-term |
| IMP | ORTANT NOTES | ANXIETY can be high after a brain injury. Many youth worry about school failure and need reassurance that accommodations will be temporary. | memory loss Blurred/double vision, slurred speech, or loss of motor function Change in behaviour (irritability, agitation, or aggression) |