

Concussion Resources for

Parents & Caregivers

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The Concussion Awareness Training Tool (CATT) is a series of online educational modules and resources with the goal of standardizing concussion recognition, diagnosis, treatment, and management. Good concussion management may decrease the risk of brain damage and potentially reduce long-term health issues.

Developed by Dr. Shelina Babul, Associate Director/Sports Injury Specialist with the BC Injury Research and Prevention Unit, BC Children's Hospital, and Clinical Associate Professor, Department of Pediatrics, University of British Columbia, CATT is based upon the established principles of the Consensus Statement on Concussion in Sport and other evidence-based resources. The 2017 Berlin Concussion in Sport Group Consensus Statement builds on the principles outlined in previous concussion statements and aims to develop better understanding of sport-related concussion.

Research and evidence on concussions is evolving and the knowledge base is continually changing. As a result, this website is updated on a regular basis to provide current information, tools, and resources to support concussion recognition, diagnosis, treatment, and management.

The information, including text and images of this package are intended for your information only, does not substitute professional medical advice, and is provided for educational purposes only. Always seek the advice of a physician or other qualified health care provider about any questions you may have regarding a medical condition.

Table of Contents

CATT Concussion Information Sheet An overview of concussion recognition, response, and management.	4
CATT Concussion Pathway A pathway guiding appropriate recognition, response, and management following a suspected concussion incident.	7
CATT Questions to Ask Your Doctor (For Parents) A list of questions to ask your doctor during a medical assessment following a suspected concussion.	8
CATT Medical Assessment Letter A form completed by a licenced medical professional during the initial medical assessment.	10
CATT Return to School A tool providing a gradual, six-stage stepwise strategy for returning to school following a concussion.	13
CATT Student Return to Learn Plan A form allowing for a student's individualized Return to School plan to be created, monitored, and evaluated. This form should be completed prior to a student's return to cognitive activity.	14
CATT Accommodations Following a Concussion A form detailing the learning accommodations necessary to address a student's physical, cognitive and emotional changes following a concussion.	17
CATT Return to Sport A tool providing a gradual, six-stage stepwise strategy for returning to sport following a concussion.	19
McMaster Children's Hospital and CanChild Activity Suggestions for Recovery Stages After Concussion (Infant to Teenager) A resource containing activity suggestions for each stage of recovery.	20
CATT Medical Clearance Letter A form completed by a licensed medical professional that clears the individual to participate in specific activities.	22
Additional Resources	24



What You Need to Know About Concussion

This information sheet provides a brief overview on the appropriate care for an individual with a concussion. It outlines the three key steps in dealing with concussion to assist recovery from this injury: recognize, respond, and manage. Visit cattonline.com for further information, resources, or to take one of the e-learning courses tailored for healthcare professionals, workers & workplaces, coaches, athletes, youth, school professionals, parents & caregivers, and women's support workers (supporting survivors of intimate partner violence).

Recognize

A concussion is the most common form of brain injury caused by an impact or forceful motion to the head or body that causes the brain to move inside the skull. Common causes of concussion include falls, motor vehicle crashes, and sport and recreational-related activities.

There is no way to know for certain whether a particular event will lead to a concussion—a relatively minor impact may result in a concussion while a higher-magnitude impact may not.

The following signs and symptoms are consistent with concussion. Some signs and symptoms may be delayed for hours or days after an injury:

- Headache / Pressure in head
- Balance problems / Dizziness
- Nausea or vomiting
- Drowsiness
- Blurred vision
- Light / Sound sensitivity
- Fatigue or low energy
- · "Don't feel right"
- Neck pain

- More emotional
- More irritable
- Sadness
- Nervous or anxious
- Difficulty concentrating
- Difficulty remembering
- · Feeling slowed down
- Feeling like "in a fog"
- Trouble falling asleep

Concussion signs to watch for in an infant or toddler may include:

- Crankiness and irritability (beyond their usual)
- · Cannot be comforted or excessive crying
- Sudden changes in nursing, eating, sleeping or playing patterns
- Loss of balance, unsteady walking (more so than normal)
- Lack of interest in favourite toys or activities
- Listlessness or tiring easily
- Loss of ability to carry on with newly acquired skills (across any social and emotional, language, physical development domains)

Respond

Immediately:

Following a potential concussion-causing event, the individual should be removed from activity and assessed for a medical emergency.

If any of the Red Flags are present, call 911 or seek immediate medical care.

Next steps if not a medical emergency:

- Do not leave the individual alone
- Notify an emergency contact person
- Continue to monitor for Red Flags and signs and symptoms of concussion
- Do not let the individual return to their activity
- Do not give the individual any immediate medication
- Do not let the individual leave by themselves
- Do not let the individual drive or ride a bike

RED FLAGS



Neck pain or tenderness



Seizure, 'fits', or convulsion



Loss of vision or double vision



Loss of consciousness



Increased confusion or deteriorating conscious state (becoming less responsive, drowsy)



Weakness or numbness/tingling in more than one arm or leg



Repeated vomiting



Severe or increasing headache



Increasingly restless, agitated, or combative

Within 48 hours:

The individual should be monitored before assuming that a concussion has not occurred, including monitoring throughout the night following the initial injury. Do not wake the individual unless you have concerns about their breathing, changes in skin colour, or how they are sleeping. Call 911 or seek immediate medical care if the individual is slow to wake or shows any of the Red Flags.

- The individual should engage in limited physical activity that does not put them at risk for a head impact.
- If any signs or symptoms are present, seek medical attention from a doctor, nurse practitioner, or licensed healthcare professional with relevant training.
- If no signs or symptoms appear within 48 hours, the individual likely does not have a concussion, and can return to normal activities.
- If unsure, seek guidance from a doctor, nurse practitioner, or licensed healthcare professional with relevant training.

Manage

A concussion can have a significant impact on physical, cognitive, and emotional functioning. The recovery process involves managing activities in order to not worsen symptoms beyond mild and brief exacerbation*—the key is finding the balance between doing too much and too little.

The recovery process is best approached in collaboration with key individuals, such as medical or licensed healthcare professionals, family members, friends, employers, teachers and school staff, and coaches.

^{*}Mild exacerbation (worsening) of symptoms: No more than a 2-point increase when compared with the pre-activity value on a 0-10-point symptom severity scale.** "Brief" exacerbation of symptoms: Worsening of symptoms for up to 1 hour.

^{**0-10} point symptom severity scale: Please see the Visual Analog Scale for an example of a 0-10 symptom severity scale.

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Within 48 hours:

The first and most important step in recovery from a concussion is relative rest for a maximum of 24-48 hours.

The individual will need both physical and cognitive rest in order to allow the brain to heal. Relative rest: activities of daily living including walking and other light physical and cognitive activities are permitted as tolerated. Screen time should be limited for the first 24-48 hours following concussion.

After 48 hours:

- Gradually increase physical and cognitive activity. Continue to increase as long as symptoms remain mild and brief. Examples: Computer work, watching TV, reading, jogging, light weight training
- Goal is to increase heart rate. Start with less demanding activities before harder ones.
- Keep naps during the day to a minimum. It is unlikely to help recovery.

The individual should begin to increase activities in a step-wise process to return to regular levels of activity, including work, school, and sports.

Symptoms should decrease over time, but some symptoms may return, worsen, or new symptoms may appear as new activity levels are introduced. If this happens, return to a lower level of activity that does not worsen symptoms beyond mild and brief exacerbation. If you are worried that the individual is not improving, follow-up with a medical or licensed healthcare professional with relevant training.

REMEMBER:

Recovery is a fluctuating process.

The individual can be doing well

one day but not the next.

On average, concussions resolve within 4 weeks. However, up to 30 percent will continue to experience persisting symptoms beyond this period. Persisting symptoms have the potential to cause long-term difficulties. If there is no improvement or symptoms are worsening 2-4 weeks after a concussion, referral to interdisciplinary care is recommended.

The recovery period may be influenced by:

- Previous concussions
- History of headaches or migraines
- Learning disabilities
- Mental health issues
- ADHD

- Use of drugs or alcohol
- Returning to activities too soon
- Lack of family or social supports
- Participating in high-risk sport

Proper management of a concussion can reduce the risk of complications. It is important that the individual has successfully returned to work or school before fully returning to sport and physical recreation activities. Returning to full activity too soon may result in more severe symptoms or long-term problems. As well, returning to high risk activities (contact sports, dangerous job duties) before full recovery and medical clearance can put the individual at risk of sustaining another concussion with more severe symptoms and a longer recovery period.

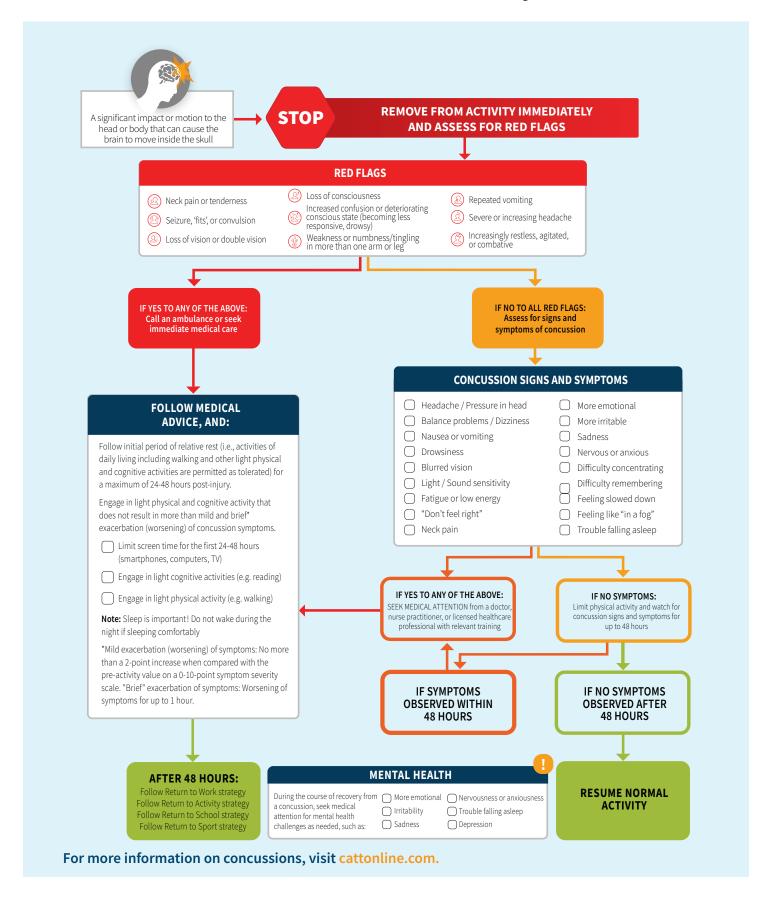
REMEMBER:

CATT resources to support the recovery process include:

- · Return to Work
- Return to Activity
- Return to School
- Return to Sport



CATT Concussion Pathway



QUESTIONS TO ASK YOUR DOCTOR

(For Parents)



If you suspect that your child may have a concussion, you should see a doctor, nurse practitioner, or licensed healthcare professional with relevant training right away. This is a list of questions you can take with you.

CARING FOR MY CHILD

Are you familiar with the latest guidelines on concussion management?

What kind of medication can I give my child?

Does someone need to be with my child at all times?

What vitamins/supplements can my child take?

WHAT MY CHILD CAN DO

Can my child eat? Will they have an upset stomach?

What kind of activities can my child do at this stage of their recovery?

Can my child read/use the computer/play video games?

When can my child go back to school or work?

When can my child return to physical activity?

Can my child drive?

SYMPTOMS

What symptoms should I be watching for?

How soon will symptoms begin to improve?

How long will these problems last?

How can my child cope with changes in their mental health or behaviour (e.g., feeling anxious, sad, irritable) as a result of their concussion?

THE RISKS

What is the risk of a future concussion?

What is the risk of long-term complications?





When should we come back to see you? Under what circumstances should I call you? Should a specialist be consulted? Are there any resources you recommend? ADDITIONAL QUESTIONS:





Medical Assessment Letter

Medical C	Office, please complete:					
Practition	er Name					
Role and	License #					
Email / Co	ontact #					
Date of ev	vent / injury					
Any individ concussion	May Concern: ual who sustains a blow or in or reports any of the symptealthcare professional with received.	oms of concus	sion is recommende	d to be assessed	by a doctor, nu	ırse practitioner, or
Name of Pa	tient:					
Results of t	he Medical Assessment					
	This patient has not been work, school, or physical a	•		her injury and ca	nn return, with f	ull participation to
	This patient has not been recommendations:	diagnosed wit	th a concussion but t	he assessment le	ed to the follow	ing diagnosis and
	This patient HAS been dia	gnosed with a	concussion. See bel	ow for concussio	n manaaement	protocol.
	This patient has been inst concussion or head injury duties, and contact sports Medical Clearance Letter.	ructed to avoic , or activities v	d all activities that co vith implications for	ould potentially p the safety of oth	olace them at ri ers (e.g., drivin	sk of another g, dangerous job
Yours Since	erely,					
Signature			_			
Stamp						

Concussion Management

The goal of concussion management is to allow complete recovery through a safe and gradual return to work, school, and physical activities following a step-wise approach. *Note: a patient's progess through the return to activity steps is unique to the individual.* After Step 2, if more than mild and brief symptom exacerbation* occurs, the patient may need to try the activity again the next day, and consider reassessment by their doctor, nurse practitioner, or licensed healthcare professional with relevant training if symptoms beyond mild and brief exacerbation persist. For more detailed guidance on step progression, please refer to the Concussion Awareness Training Tool (CATT) at <u>cattonline.com</u>.

Step 1: Symptom-limited activity		
In the first 24-48 hours the pinitiating a return to work o	patient has been instructed to engage in relative phy ractivity.	rsical and cognitive rest** prior to
Not yet completed Completed on (dd/mm Time period has passe	n/yyyy) d	
Step 2: Prepare to return to activity		
	eturn to activity process at home, by increasing fami m exacerbation, until no new or worsening concussi	
Not yet completed Completed on (dd/mm Time period has passe	n/yyyy) d	
Step 3: Return to work, school, and pl	hysical activity and gradually resume daily activities	
gradually resuming usual a	duated return to work, school, and physical activities of ctivities (supported with accommodations, modifica I that does not result in more than mild and brief syr	itions, and restrictions as needed) as
Not yet completed Completed on (dd/mm Time period has passe	d	
Restrictions/Accommodations	Details	Timeline

Restrictions/Accommodations	Details	Timeline

^{*}Mild and brief symptom exacerbation: an increase in current concussion symptoms of no more than 2 points on a 0-10 point scale for less than an hour compared to the resting value prior to the activity (i.e., physical or cognitive).

^{**}Relative rest: activities of daily living including walking and other symptom-limited physical and cognitive activities are permitted, as tolerated.

Step 4: Full return to work, school, and physical activities

Not yet completed Completed on (dd/mm Time period has passed	n/yyyy) d	
Restrictions/Accommodations	Details	Timeline
Yours Sincerely,		
Signature		
Stamp		

The patient can return with full participation to work, school, and physical activities.

It is recommended that this document be provided to the patient without charge.

Return to School

This tool is a guideline for managing a student's return to school following a concussion and does not replace medical advice. Every concussion is unique, and recovery is very different for each individual. Not everyone will require a Return to School Strategy. Timelines and activities may vary based on direction from a doctor, nurse practitioner, or licensed healthcare professional with relevant training. Note: For information about returning to activities that pose risk of head contact, please refer to Return to School or Return to Activity.

STEP 1:	STEP 2:	STEP 3:	STEP 4:
Activities of daily living and relative rest* • Maximum of 24-48 hours • Activities at home such as social interactions and light walking that do not result in more than mild and brief** exacerbation (worsening) of concussion symptoms. Examples: • Preparing meals • Housework • Light walking • Minimize screen time for the first 24-48 hours following concussion. • Avoid driving during the first 24-48 hours after a concussion. Contact school to create a Return to School plan.	 School activities (as tolerated) Returning to school as soon as possible (as tolerated) is encouraged. Reading or other cognitive activities at school or at home. Goal: Increase tolerance to cognitive work, and connect socially with peers. Take breaks and adapt activities if concussion symptom exacerbation (worsening) is more than mild and brief.** Use of devices with screens may be gradually resumed, as tolerated. Clearance from your doctor is not required to return to low-risk in-person or at-home school activities. A complete absence from the school environment for more than one week is not generally recommended. 	Part-time or full-time days at school with accomodations (if needed) Gradually reintroduce schoolwork. May require accomodations, such as: Partial school days with access to breaks throughout the day Academic accommodations (extra time to complete work, reduced workload) to tolerate the classroom or school environment. Communicate with school on student's progression.	Return to school full-time Return to full days at school and academic activities without requiring accommodations (related to the concussion). Note: Medical clearance is NOT required to return to school For returning to P.E. or sports, please refer to Return to Sport protocol.
Activites of daily living, as tolerated	Communicate with school on student's progression Return to school as soon as possible, as tolerated	Gradually reduce accommodations and increase workload	Full academic load (no academic accommodations related to the concussion)
After a maximum of 24-48 hours after injury, BEGIN STEP 2	If can tolerate school activities, BEGIN STEP 3	If can tolerate full days without concussion- related accommodations, BEGIN STEP 4	Return to School completed

Students should begin a gradual increase in their cognitive load with the goal of minimizing time away from the school environment. The return to school should not be restricted if the student is tolerating full days. Progression through the strategy may be slowed when there is more than a mild and brief symptom exacerbation**; however, missing more than one week of school is not generally recommended. Driving should resume after consultation with a doctor, nurse practitioner, or healthcare professional.

^{***0-10} point symptom severity scale: Please see the <u>Visual Analog Scale</u> for an example of a 0-10 symptom severity scale.







^{*}Relative rest: activities of daily living including walking and other light physical and cognitive activities are permitted as tolerated.

^{**}Mild exacerbation (worsening) of symptoms: No more than a 2-point increase when compared with the pre-activity value on a 0-10-point symptom severity scale.*** "Brief" exacerbation of symptoms: Worsening of symptoms for up to 1 hour.

STUDENT RETURN TO LEARN PLAN

STUDENT INFORMATION				
STUDENT NAME:	HOMER	ROOM TEACHER:	GRADE:	INJURY DATE:
PARENT/GUARDIAN:		PHONE:	EMAIL:	
SCHOOL CONTACT:		PHONE:	EMAIL:	

STUDENT SUPPORT SYSTEM			
NAME	ROLE	CONTACT INFORMATION (PHONE/EMAIL)	

MONITORING AND EVALUATION					
Preferred communication	n with parent/guardian	Communication be	etween school contact and t	eachers	
In person	Frequency:	In person	Frequency:		
Student agenda		Email			
Email	Regular meetings:		Regular meetings:		
Phone					
Symptom reporting		Academic progress	s measured by		
Student self-report:	Student monitored by:	Workload	Length of time tolerated	Number of courses	
To school contact To teacher In person to	School contact Teacher Other	Emotional progres Monitored by:	s		
		In case of concern	S:		
Comments:					



RETURN TO LEARN PLANNING TOOL

The student's individual symptoms will guide the creation of this planning document. Students should begin a gradual increase in their cognitive load with the goal of minimizing time away from the school environment. The return to school should not be restricted if the student is tolerating full days. Progression through the strategy may be slowed when there is more than a mild and brief symptom exacerbation*; however, missing more than one week of school is not generally recommended.

STUDENT:	SCHOOL CONTACT:	DATE:
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Identify Studer	nt's Needs	Determine Learni	ng Accommodations	Determine School Work
SYMPTOMS	STEP	LEARNING ACC	OMMODATIONS	SCHOOL WORK
Physical:	STEP 1	Rest Breaks:	Processing Speed:	Attendance:
Headache	Activities of daily	Frequency:	Extra time for tasks and tests	All school days
Fatigue	living and relative rest	Duration:	Slow down verbal information	Limited days:
Sleep disturbance	STEP 2	Location:	Check comprehension vs. memorization	Adjusted school hours
	School activities (as tolerated)	Classroom Environment:	Provide notes/notetaker	Start time:
Dizziness/lightheadedness	STEP 3	Sit at front of class	Mood:	End time:
Nausea/vomiting	Part-time or full-time	Sit away from bright sunlight	Facilitate access to school counsellor	Course Expectations:
Light sensitivity	days at school with	Limit classes with noise/safety issues	Reduce stressful situations	Limited courses:
Noise sensitivity	accommodations (if	Band/choir	Provide supportive feedback/reassurance	
Blurred vision	needed)	Wood/metalwork	Can leave class when needed	
Double vision	STEP 4 Return to School	Other:	Facilitate avenues to express themselves	
Balance problems	full-time	Quiet work/rest space	Allow time for socialization	All courses
Neck pain		Library	Set appropriate goals with student	Learning Support (see page 3 for details)
'		Learning Support	Homework:	
Other:		Counselling room	Limited to mins per day	PHYSICAL ACTIVITY
Cognitive:		Other:	Assessment:	Physical Activity Permitted:
Poor attention/concentration		General Classroom Learning:	No testing	(provided by parent/guardian)
Forgetfulness/poor memory		Reduce course/workload	Limited testing (1 test per day)	, , , , , , , , , , , , , , , , , , ,
Slow response time		Prioritize essential work	Accommodations	
Emotional:		Provide extra support/learning assistance	Extra time	Physical Education (P.E.):
Irritability/easily angered		Provide written instruction	Separate setting	No P.E.
, , , ,		Provide class notes	Breaks as required	Adapted P.E. program as per health care profession
Frustration/impatience		Use agenda/online school software	Open book	Full P.E.
Restlessness		Other:	Modified content	Written medical clearance provided:
Depression		Attention/Concentration:	Additional Considerations:	
Anxiety		Limit focus time to mins	Sunglasses/blue light-blocking glasses	
Pre-Existing Issues:		Shorter assignments	Hat	NEVT DEVIEW DATE.
Prior concussion		Chunk information into smaller pieces	Ear plugs/noise-reducing headphones	NEXT REVIEW DATE:
Dates:		Lighter workload	Water bottle	
Learning disability		Other:	Earbuds/headphones for music	
		Memory:	Class transition before bell	
ADD/ADHD		Use visual reminders and recognition cues	Restrict/limit noisy environments	
Depression		Written instructions	Restricted recess/lunch activities]
Anxiety		Use calculator	Alternative:	
History of migraines		Shorter reading passages	Elevator pass]
Other:		Chunk information into smaller pieces	Other:	
		Other:		

LEARNING SUPPORT DETAILS	
COMMENTS	

LEARNING ACCOMMODATIONS AND MODIFICATIONS FOR STUDENTS FOLLOWING A CONCUSSION

For more information about learning accommodations, see the Resources section of the Concussion Toolkit for School Professionals.

PHYSICAL

HEADACHES:

Provide opportunities to ensure student stays hydrated

Allow frequent rest breaks with equipment as needed (ear/headphones, music, relaxation tapes, etc.)

Limit or restrict noisy classes (music, woodworking, auto mechanics, foods/home economics, etc.)

Limit or restrict noisy environments (assemblies, cafeteria, hallways, etc.)

Allow the use of noise-cancelling ear plugs/headphones

Allow sunglasses/hat in classroom

Seat student away from window

Dim light, pull shades

TIRES EASILY:

Limit time spent doing school work

Allow frequent rest breaks with equipment as needed (ear/headphones, music, relaxation tapes, etc.)

Allow student to leave class/school early

Allow student to start school later in the day

Modify the student's attendance requirements, classes, and/or timetable

Reduce backpack weight

Schedule activities/subjects during student's best time of day

SENSITIVE TO LIGHT:

Allow sunglasses/hat or blue light-blocking glasses

Seat student away from window

Dim light, pull shades

Reduce exposure to computers, smart boards, videos by offering pre-printed notes

Reduce brightness on screens

SENSITIVE TO NOISE:

Limit or restrict noisy classes (music, woodworking, auto mechanics, foods/home economics, etc.)

Limit or restrict noisy environments (assemblies, cafeteria, hallways, etc.)

Provide a quiet work space (library, learning support or counselling room, etc.)

Provide a quiet place for lunch, recess

Allow the use of noise-cancelling earplugs/headphones

Allow student to leave class early to avoid noisy hallways

DIZZINESS/BALANCE PROBLEMS:

Allow student to leave early to avoid crowded hallway

Limit standing for long periods and allow student to sit or lie down as needed

COGNITIVE

COGNITIVE FATIGUE:

Limit time focusing on schoolwork

No new learning

Allow frequent rest breaks

Reduce workload

Decrease academic expectations

Prioritize essential schoolwork

Reduce repetition of work

Allow for extra time to complete work, tests

Provide shorter assignments, tests

Allow alternative forms of testing (quiet space, oral, one-to-one, open-book, technology, etc.)

Chunk information into smaller pieces

Provide audio alternative for reading

Schedule high cognitive demand tasks to be followed by less demanding work

Allow alternative submission formats (e.g. electronic vs hard copy)



COGNITIVE

DIFFICULTY CONCENTRATING:

Provide a quiet place to work

Limit time focusing on schoolwork

Decrease distractions

Work on one task at a time

Chunk information into smaller pieces

Allow for extra time to complete work

Provide class notes

Allow alternative forms of testing (quiet space, oral, one-to-one, open-book, technology, etc.)

Provide shorter assignments, tests

Provide or support use of assistive technology and software

Provide extra support or learning assistance (TA, LA teacher, parent, peer, etc.)

Allow preferential seating (front of class, away from windows, doors, other distractions, etc.)

Limit or restrict noisy classes (music, woodworking, auto mechanics, foods/home economics, etc.)

Limit or restrict noisy environments (assemblies, cafeteria, hallways, etc.)

DIFFICULTY REMEMBERING:

Provide written instructions for tasks, homework

Use peer tutor or partner

Check comprehension

Provide class notes/allow class notes for testing

Provide or support use of assistive technology and software

Use student agenda, communication book

Chunk information into smaller pieces

Provide extra support or learning assistance (TA, LA teacher, parent, peer, etc.)

Use recognition rather than recall for testing

Use repetition

Use visual reminders (schedules, checklists, calendars, sticky notes, etc.)

Use visual cues (highlighting, underlining, pictures/diagrams, colour coding, etc.)

Use memory strategies (categorizing, associations, chunking, rehearsal, mnemonics, visualization, etc.)

EMOTIONAL

SAD/DEPRESSED/FRUSTRATED:

Allow time for socialization

Listen to and validate student's concerns

Provide reassurance

Use proactive behaviour management to encourage healthy lifestyle

Provide safe place for student when feeling overwhelmed

Ensure student has ready access to support services (school counsellor, school psychologist, etc.)

Provide extra support or learning assistance (TA, LA teacher, parent, peer, etc.)

Provide student and parent/caregiver with mental health and substance use resources

Schedule regular check-ins with student

Schedule regular check-ins with parent/caregiver

ANXIETY:

Set appropriate goals with the student

Allow student to leave class when needed

Set a signal for the student when they need to leave the classroom

Listen to and validate student's concerns

Provide reassurance

Provide safe space for student when feeling overwhelmed

Ensure student has ready access to support services (school counsellor, school psychologist, etc.)

Reduce workload

Provide extra support or learning assistance (TA, LA teacher, parent, peer, etc.)

Allow alternative forms of testing (quiet space, oral, one-to-one, open-book, technology, etc.)

Decrease academic expectations

Prioritize essential schoolwork

Allow for extra time to complete work, tests

Schedule regular check-ins with student

Schedule regular check-ins with parent/caregiver

Return to Sport

This tool is a guideline for managing an individual's return to sport following a concussion and does not replace medical advice. Timelines and activities may vary based on direction from a doctor, nurse practitioner, or licensed healthcare professional with relevant training.

Begin Step 1 within 24 hours of injury, with progression through each subsequent step taking a minimum of 24 hours.

STEP 1:	STE	P 2:	STEP 3:	STEP 4:	STEP 5:	STEP 6:
Activities of daily living and relative rest* • Maximum of 24-48 hours • Activities at home such as social interactions and light walking that do not result in more than mild and brief** exacerbation (worsening) of concussion symptoms. Examples: • Preparing meals • Housework • Light walking • Minimize screen time for first 24-48 hours following concussion.	2A: Light effort aerobic exercise Up to approximately 55% of maximum heart rate (predicted according to age - i.e. 220-age). In a safe and controlled environment, engage in light aerobic exercise. Examples: Stationary cycling Walking at slow to medium pace Light resistance training that does not result in more than mild and brief** exacerbation (worsening) of concussion symptoms.	2B: Moderate effort aerobic exercise • Up to approximately 70% of maximum heart rate (predicted according to age - i.e. 220-age). • Take a break and modify activities as needed with the aim of gradually increasing tolerance and the intensity of aerobic activities.	sport-specific activities (that do not have a risk of inadvertent head impact) Addition of individual sport-specific activities that are supervised by a teacher/coach/parent. Examples: Skating drills (hockey) Running drills (soccer) Chappe of direction	Non-contact training drills and activities Progress to exercises at high intensity, including more challenging drills and activities. Examples: Passing drills Multi-player training Supervised non-contact gym class activities Practices without body contact Resume usual intensity of exercise, coordination, and	Return to all non-competitive activities Return to all non-competitive activities, all gym class activities, and full-contact practices Participate in higher-risk activities including normal training activities, all school gym-class activities, and full-contact sports practices and scrimmages. Avoid competitive gameplay. Return to activities that have a risk of falling or body contact, restore game-play	Return to sport Back to normal, unrestricted competitive game play, school gym class, and physical activities. Note: Returning to full contact, competitive play or high-risk activities before
Activities of daily living, as tolerated	Increase heart rate		of aerobic activities and introduce low-risk sport- specific movements and changing of directions	activity-related cognitive skills	confidence, and have coaches assess functional skills.	you have recovered increases the risk of delayed recovery and for sustaining
After a maximum of 24-48 hours after injury, BEGIN STEP 2	If can tolerate moderate aerobic exercise, BEGIN STEP 3		If medically cleared and have fully returned to school, BEGIN STEP 4	If can tolerate usual intensity of activities, BEGIN STEP 5	If can tolerate non- competitive, high-risk activities, BEGIN STEP 6	another more severe concussion or serious injury.

If more than mild exacerbation (worsening) of symptoms (i.e., more than 2 points on a 0-10 scale***) occurs during Steps 1-3, stop the activity, and attempt to exercise the next day. Individuals experiencing concussion symptoms during Steps 4-6 should return to Step 3 to establish full resolution of symptoms with exertion before engaging in at-risk activities. Written determination of medical clearance should be provided before unrestricted Return to Sport as directed by local laws and/or sporting regulations.

Medical determination of readiness to return to at-risk activities should occur prior to returning to any activities that pose risk of contact, collision, or fall.

*Relative rest: activities of daily living including walking and other light physical and cognitive activities are permitted as tolerated.

***0-10 point symptom severity scale: Please see the Visual Analog Scale for an example of a 0-10 symptom severity scale.

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^{**}Mild exacerbation (worsening) of symptoms: No more than a 2-point increase when compared with the pre-activity value on a 0-10-point symptom severity scale.*** "Brief" exacerbation of symptoms: Worsening of symptoms for up to 1 hour.





ACTIVITY SUGGESTIONS FOR RECOVERY STAGES AFTER CONCUSSION

TODDLER (0-4)

Stage 1 – Short Phase of Physical and Cognitive Rest with Symptom Guided Activity 24-48 hours

- · Crafts: colouring, drawing
- · Nap in favourite spot
- · Parents can read stories
- · Watch fish in an aquarium

Stage 2 - Light Exercise (No Contact)

- Bird watching
- · Crafts: painting
- Exersaucer
- · Play in the Sand
- Play blocks, Lego, dolls, cars or small toys
- Puzzles/matching games
- Sensory/water play
- Supervised walking or crawling

Stage 3 – Individual Sport-Specific Activity (No Contact)

- · Archery game
- Ball throwing (ex basketball)
- Bowling (at home)
- Crawling
- Dramatic play/role-playing
- Walking

Stage 4- Sport-Specific Practice with Team (No Contact)

- Dance lessons
- · Kicking/passing a soccer ball
- Mini sticks
- · Splash pad
- Swim lessons

CHILD (5-10)

Stage 1 – Short Phase of Physical and Cognitive Rest with Symptom Guided Activity 24-48 hours

- Basic board games (i.e. not monopoly)
- Crafts: making bracelets, necklaces
- Light gardening
- Singing
- · Static stretching
- Talking on phone
- · Talking to friends/family

Stage 3 – Individual Sport-Specific Activity (No Contact)

- · Air hockey or foosball
- Biking
- Dribbling and stickhandling
- · Golf
- iPad applications (no gaming)
- · Light badminton
- Sit ups and push-ups few repetitions
- · Ping pong
- Skating
- · Sprinklers and splash pads
- Tag
- Tai chi/karate (non-contact)
- · Wii or Xbox Kinect games
- · Word searches

Stage 2- Light Exercise (No Contact)

- Balance exercises
- · Challenging board games
- Fishing
- · Flying kites
- · Freestyle swimming
- · Helping cook and bake
- · Light jogging
- Listening to quiet music (no headphones)
- · Magazines
- · Playing catch
- Puzzles
- Walking

Stage 4 – Sport-Specific Practice with Team (No Contact)

- Baseball/cricket
- Basketball
- Dance
- Field hockey
- Figure skating (no jumps)
- · Hockey drills
- · Soccer without heading
- Slide and swing at playground
- Squash
- · Tennis, Badminton
- Volleyball (no diving)

WARNING: Perform activities ONLY if symptom free. If any symptoms appear during activity, STOP immediately.

Use suggestions in conjunction with CanChild concussion protocols available at: https://canchild.ca/en/diagnoses/brain-injury-concussion/brain-injury-resources





ACTIVITY SUGGESTIONS FOR RECOVERY STAGES AFTER CONCUSSION

TEENAGER (11+)

Stage 1 – Short Phase of Physical and Cognitive Rest with Symptom Guided Activity 24-48 hours

- Cellphone (no texting only calling)
- · Crafts: molding clay
- · Friends visit (one at a time)
- · Knitting and quilting
- · Listen to Audiobooks
- Meditation/nap
- · Photography/scrapbooking
- Static stretching

Stage 2 - Light Exercise (No Contact)

- Archery
- Camping
- · Cooking and baking
- Fishing
- · Freestyle swimming
- · Going to the beach
- Light jogging
- Listening to quiet music (no headphones)
- Magazines
- Playing catch
- Puzzles
- · Re-read familiar books
- Stationary cycling
- Walking
- Yoga (no hot yoga)

Stage 3 – Individual Sport-Specific Activity (No Activity)

- · Air hockey or foosball
- Basketball (passing, shooting)
- · Air hockey or foosball
- Basketball (passing, shooting)
- Biking
- · Crosswords/sudoku
- Curling
- Dance/Gymnastics/Cheer (no stunts)

- Figure skating (stroking, footwork)
- Football (dynamic throwing and catching, one on one plays)
- Golf
- Hiking/orienteering
- Hockey (passing, shooting, skating drills)
- · Light badminton, Ping Pong
- · Sit ups and push-ups few repetitions
- Running
- Rugby (passing and catching drills)
- · Shopping at mall
- · Soccer (dribbling, passing, shooting)
- Snorkeling
- · Tai chi/Karate
- Volleyball (keep ups)
- · Wii or Xbox Kinect games

Stage 4- Sport-Specific Practice with Team (No Contact)

- Aerobics and plyometrics
- Baseball/Cricket
- Basketball
- Canoeing/kayaking
- Dance/Gymnastics/Cheer (beginner stunts, maximum two rotations)
- Figure Skating (beginner jumps, run through no music)
- Football (offensive/defensive plays)
- Hockey (breakout, defense drills, 3 on 2)
- · Light Weight Training
- Mountain/rock climbing
- Rugby (team drills, lineouts no contact)
- · Shadow boxing
- Soccer (offensive/defensive plays)
- Squash or tennis
- Track and field
- Volleyball (no diving)

WARNING: Perform activities ONLY if symptom free. If any symptoms appear during activity, STOP immediately.

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Medical Clearance Letter

Medical Office, please complete:		
Practitioner Name		
Role and License #		
Email / Contact #		
Date of Clearance Letter		
Practitioner / Patient please comp	lete:	
Date of Concussion		
Date of Concussion Diagnosis		
Organization/Individual Requesting Medical Clearance		
To Whom It May Concern:		
As part of the strategy, this patient had risk of another concussion or head inju- dangerous job duties, contact sports, e	r to the Concussion Awareness Training Tool (CAT previously been instructed to avoid all activities and activities activities and activities activities activities activities and activities act	chat could potentially place them at e to organizational requirements, requirements and the duties/
	vidual. After Step 2, if more than mild and brief syr ain the next day, and consider reassessment by the and brief exacerbation persist.	
This patient can return w	ith full participation to work, school, or physical a	ctivities without restriction .
This patient can return to	work, school, or physical activities with the follo	wing restriction(s):
Restriction(s) Physical & Cognitive	Details	Timeline

This patient can return with full participation to work, school, or physical activities without accommodation.

This patient can return to work, school, or physical activities with the following accommodation(s):

Accommodation(s) Physical & Cognitive	Details	Timeline

Your understa	nding and support are critical componer	nts in this patient's continuing recovery.
Yours Sincerel	у,	
Signature		
Stamp		

It is recommended that this document be provided to the patient without charge.

Additional Resources

Active & Safe Central (2018)

https://activesafe.ca/

Canadian Concussion Collaborative - 4 Characteristics of a Good Concussion Clinic (2017)

https://casem-acmse.org/wp-content/uploads/2018/06/CCES-PUB-CCC-4Qs-E-FINAL.pdf

CATT - Concussion Incident Report (2019)

https://cattonline.com/wp-content/uploads/2017/10/CATT-Concussion-Incident-Report-V4-May-2019.pdf

CATT – Learning Accommodations and Modifications for Students Following a Concussion (2019)

https://cattonline.com/wp-content/uploads/2017/10/CATT-Learning-Accommodations-Following-Concussion-V3-September-2019-revised.pdf

CATT - Return to Activity (2019)

https://cattonline.com/wp-content/uploads/2018/06/CATT-Return-to-Activity-V2-June-2019.pdf

CATT - Return to Work (2019)

https://cattonline.com/wp-content/uploads/2019/05/CATT-Return-to-Work-2019-V1-June-2019.pdf

Parachute – Statement on Concussion Baseline Testing in Canada (2017)

https://parachute.ca/wp-content/uploads/2019/06/Concussion-Baseline-Testing.pdf

University of Georgia - Driving After Concussion: Is it safe to get behind the wheel?

https://cattonline.com/wp-content/uploads/2020/07/Driving-After-Concussion-Is-It-Safe-to-Get-Behind-The-Wheel-2020.pdf

For more information and resources on concussion, please visit cattonline.com.

The Concussion Legacy Foundation Canada HelpLine supports patients and families struggling with the outcomes of brain injury. If you or a loved one are seeking guidance on how to choose the right doctor, struggling with lingering concussion symptoms, or have any other specific questions, submit a HelpLine request and a dedicated member of the Concussion Legacy Foundation Canada team will assist you:

https://www.concussionfoundation.ca/helpline

Notes