ACUTE CONCUSSION EVALUATION (ACE) CARE PLAN V5

Gerard Gioia, PhD Children's National Hospital

Name:	
Age:	
Date of birth:	

TODAY'S DATE

• You have been diagnosed with a concussion, also known as a traumatic brain injury.

INJURY DATE

- To prevent further injury, **do not return to any high-risk activities** (e.g., sports, physical education, driving, etc.) until cleared by a qualified healthcare professional.
- Concussions are treatable. To promote recovery, physical and cognitive activity must be carefully managed.
- Learn how to manage your symptoms by managing your level of activity. Avoid too much of any activity that makes your symptoms worse, as this may affect your recovery. Use the recommendations below to help your recovery.
- Stay positive. Most people recover within several weeks. For more information, go to www.cdc.gov/headsup

Current post-concussive symptoms (Circle or check)			No reported symptoms	
Phy	/sical	Cognitive	Emotional	Fatigue/ Sleep
Headaches	Sensitivity to light	Feeling mentally foggy	Irritability	Fatigue
Nausea	Sensitivity to noise	Problems concentrating	Sadness	Drowsiness
Dizziness	Visual problem-double	Problems remembering	Feeling more emotional	Sleeping more than usual
Balance Problems	Visual problem-blurry	Feeling more slowed down	Nervousness	Sleeping less than usual
Numbness/ tingling	Vomiting	Other:		Trouble falling asleep

Concussion Education: Key Points to Help Your Recovery

Gradual Return to Daily Activities

- **1. Sleep:** Be sure to get adequate sleep at night aim for 9 hours per night. No late nights or overnights. Bedtime on weekdays and weekends should be within 1-2 hours. Turn off electronics (phone/tablet, TV) 1 hour before bedtime. Take only brief daytime naps (45 minutes) if you feel very tired or fatigued, unless they interfere with falling asleep at night.
- 2. Key Rule for Activity: : Not too much, not too little. Balance physical (e.g., exercise, non-contact sport skill work), cognitive (e.g., schoolwork, screen time), and social activities with rest/recharge breaks. Find your "sweet spot" of tolerable activity. When you have symptoms, take your day in doses: Activity Rest/Recharge Activity Rest/Recharge
- **3.** Use your symptoms as your guide to activity: As symptoms improve, increase activities <u>gradually</u>. Pay attention to returning or worsening of symptoms. Worsening and/or return of symptoms is your sign to slow down.
- 4. Food and Drink: Maintain adequate hydration (drink lots of fluids) and eat regularly (3 meals) during recovery.
- **5. Emotions and Stress:** It is normal to feel frustrated, nervous or sad because you do not feel right and your activity is reduced. Manage stress through relaxation. Avoid high stress situations. Talk to your parents or friends for support. Seek professional help if you feel unsafe or have thoughts of self-harm.
- **6. Driving:** You are advised not to drive if you have significant symptoms or cognitive impairment, as these can interfere with safe driving.

Gradual Return to Exercise & Physical Activities

- 1. Exercise and physical activity has been shown to promote recovery. Exercise every day. Exercise is medicine!
- **2. Most people can start with light exercise** (such as walking around the neighborhood) several days after their injury. Increase gradually as your symptoms allow.
- **3. Discuss the start of exercise** with your healthcare provider. Follow the "Not Too Much, Not Too Little" rule. And use your symptoms as your guide. Exercise can be helpful for your recovery, but too much can worsen your symptoms.
- **4. Inform** the PE teacher, teacher at school recess, coach, and/or athletic trainer of your injury and symptoms. Do not do activities that put you at risk for additional injury or cause symptoms to worsen significantly.
- **5. Gradually increase** your amount of exercise. Pay careful attention to your symptoms at each level. Move to the next level only if symptoms do not worsen at the current level. If your symptoms worsen, return to the previous level of activity.
 - a. Low levels of physical execise may include walking, easy swimming, light stationary biking, light weightlifting (lower weight, higher reps, no bench, no squat).
 - b. Moderate levels of exercise can includes moderate jogging/ running, moderate-intensity stationary biking or swimming, moderate-intensity weightlifting (reduced time and/or weight).
 - c. Heavy exercise: Return to typical, full level of exercise. Includes sprinting/running, high-intensity stationary biking, regular weightlifting routine, non-contact sport-specific drills.

Gradual Return to School 1. Provide supports. Students with symptoms and/or neuropsychological dysfunction after a concussion often need support to perform school-related activities. As symptoms decrease during recovery, these supports may be gradually removed. 2. Inform teacher(s), school nurse, school psychologist, counselor, and administrator(s) about your injury and symptoms. 3. Teachers should watch for these common problems, and be prepared to provide supports: * increased problems paying attention or concentrating * increased problems remembering or learning new information * longer time needed to complete tasks or assignments * greater irritability, less tolerance for stressors * increased symptoms (headache, fatique) with concentration * difficulty managing and completing complex assignments Temporary School Support Plan (Review date: The symptoms above can affect the student's academic learning and performance. General supports and symptom-specific (STAMP) accommodations/ adjustments are provided to support the student's recovery. The following general school supports are also recommended: ___Return to school on _____ Shortened day. Recommend hours per day until (date) Shortened classes (i.e., rest breaks during classes). Suggested class length: minutes Scheduled rest/recharge breaks breaks/ day minutes in guiet area. AM PM Rest/recharge breaks as needed; i.e., when symptoms worsen ("flash pass"). minutes __Allowances for extended time to complete coursework/assignments and tests Reduced homework load. Max. length of homework: minutes. 20-30' study, 10-15' rest break. Reduced workload. Assign essential work only. Modify assignments when possible, (odd/ even # problems, outline or bullet points instead of full written responses, allow oral responses to test questions, etc.) _Reduce or eliminate make up work when possible. Focus on key learning concepts with shortened assignments. __Tests: __ No testing until Modified classroom/ standardized testing - if symptoms do not interfere & adequately prepared; allow breaks. Meet with academic coordinator to establish reasonable timeline for make-up learning/ work (as symptoms permit). Request meeting of School Management Team to discuss this plan and coordinate accommodations. Additional Notes/Recommendations: Return to Sports/ Physical Education You should NEVER return to play if you still have ANY symptoms. You should not return to activities involving risk of re-injury until you are symptom-free and fully recovered. All states have a law that you must be cleared by a licensed healthcare provider to return. No competitive sports with friends, in PE, or at recess until fully recovered. Physical education (PE) class: No Activities No competition, Skills/Exercise only Full Return, Date: Sports practices/Games: No Activities Exercise & Skill work only Supervised RTP Full Return, Date: The Gradual Return to Play (RTP) is typically a 5 step process, involving increasing stages of non-contact exercise, and a final controlled contact stage; with at least 24 hours between each stage. You must be symptom free before moving to the next stage. Full clearance for return to play must come from a licensed healthcare provider. Follow-Up: Return to this office for re-evaluation, monitoring and adjustment of support plan. Date/Time ___ None needed; Recovery complete **Referral:** Based on today's evaluation, the following referral plan is made: __ Specialists: Behavioral Health___ Neurology ___ Neuropsychology ___ Physiatry____ Other:_____ Physical Rehabilitation ___Aerobic ___Vestibular ___Musculoskeletal __Ocular-Motor Typical Gradual Return to Play Evaluation and Treatment Other Healthcare Provider Signature RED FLAGS: Call your doctor or go to the Emergency Department with sudden onset of any of the following in the first few days after the injury Headaches that worsen Look very drowsy, can't be awakened Can't recognize people or places Unusual behavior change Seizures Repeated vomiting Increasing confusion Significant irritability Slurred speech Neck Pain Weakness or numbness in arms or legs Loss of consciousness

© Copyright G. Gioia 2006,2012,2015,2016,2021,2023

Student Name:	Today's Date:	End Date:

Symptom Targeted Academic Management Plan (STAMP)

Below are symptoms and associated functional problems that can affect school performance. Specific recommendations are indicated for classroom accommodations and adjustments to support this student's academic learning and performance:

Symptom (check)	Functional school problem	Accommodation/ management strategy (select)
Cognitive Symptoms		
Attention & concentration difficulties	Short focus on lecture, classwork, homework	Shorter assignments (odd/even problems, requiring outline or bullet points instead of full written responses) Break down tasks and tests into chunks/segments Lighter work load: Max. nightly homework (including studying): min
Working memory (short-term memory)	Trouble holding instructions, lecture, reading material, thoughts in mind during tasks	Repetition Written instructions Provide student with teacher generated class notes
Memory consolidation/ retrieval	Retaining new information Accessing learned information	Smaller chunks/segments to learn, repetition Recognition cues
Processing speed	Unable to keep pace with work load Slower reading/writing/calculation Difficulty processing verbal information effectively	Allowances for extended time to complete coursework, assignments, tests Reduce/slowdown verbal information and check for comprehension
Cognitive Fatigue/ Fogginess	Decreased arousal, mental energy; trouble thinking clearly, formulating thoughts	Rest breaks during classes Homework, and examinations in quiet location
Physical Symptoms		<u> </u>
Headaches	Interferes with concentration Increased irritability	Intersperse rest breaks, shortened day if symptom does not subside Allow for short naps in quiet location (e.g., nurse's office)
Light/ noise sensitivity	Symptoms worsen in bright or loud environments	Wear sunglasses/hat, seating away from bright sunlight Limit exposure to SMART board, computers, provide class notes Avoid noisy/crowded environments such as lunchroom, assemblies, chorus/music class, and hallways. Leave class early. Allow student to wear earplugs as needed
Dizziness/ balance/ nausea	Unsteadiness when walking Nausea or vomiting	Elevator pass Class transition before bell
Sleep disturbance	Decreased arousal, shifted sleep schedule, trouble falling asleep	Later start time Shortened day or rest breaks
Fatigue	Lack of energy	Periodic rest breaks, short naps in quiet location Passive participation
Emotional Symptoms	S	
Irritability	Poor tolerance for stress	Reduce stimulation & stressors (e.g., overwhelmed with missing work)
Anxiety/ nervousness	Worried about falling behind, pushing through symptoms	Reassurance from teachers and team about accommodations, workload reduction, alternate forms of testing Time built in for socialization
Depression/ withdrawal	Withdrawal from school or friends because of stigma or activity restrictions	Allow student to be engaged with peers during selected low stress/ extracurricular activities as tolerated Lunch in a quiet room with friends
Specific Academic F		
Subject specific	Writing Mathematics calculation	Provide alternatives to written output (word bank, oral response, etc.) Use of calculator, reduced number of problems
difficulties	Reading comprehension	Shorter reading passages Provide tools to assist with visual tracking or comprehension of information (e.g., use of audio books)
Make-up/Missing work	Trouble managing current load of make-up work	Waive previously missed work Reduce amount of outstanding work (assign essential learning tasks)
Tests/quizzes	Unprepared for tests/quizzes	No/ Modified classroom testing (e.g., breaks, extra time, quiet setting) Limit number of classroom tests per day per day.
Other:		

Gradual Return to Academics

Following a concussion, the return to school process should be carefully considered with a gradual return plan based on the student's symptoms and progress. Most students can return to school in 1-3 days after their injury with supports. The stages below proceed in a graduated manner. Select the appropriate level based on the student's types and severity of symptoms. If the student is making a rapid recovery, they may skip a stage.

Stage	Description	Activity Level	Criteria to Move to Next Stage
0	No return, at home	Day 1 - Maintain low level cognitive	To Move To Stage 1:
		and physical activity. No prolonged concentration.	(1) Student can sustain concentration for up to 30 minutes with little to no
		Cognitive Readiness Challenge: As	significant symptom exacerbation, OR
		symptoms improve, try reading or math challenge task for 10-30 minutes; assess for symptom increase.	(2) Symptoms reduce or disappear with cognitive rest breaks* allowing return to activity.
1	Return to School,		To Move To Stage 2:
	Partial Day (1-3 hours)	Attend 1-3 classes, with interspersed rest breaks. Minimal expectations for productivity. No tests or homework.	Student symptom status improving, able to tolerate 4-5 hours of activity with 2-3 cognitive rest breaks built into school day.
2	Full Day, Maximal	Attend most classes, with 2-3 rest	To Move To Stage 3:
	Supports (required throughout	breaks (20-30'), no tests. Minimal HW (≤ 60'). Minimal-moderate	Number & severity of symptoms
	day)	expectations for productivity.	improving, needs only 1-2 cognitive rest breaks built into school day.
3	Return to Full Day,	Attend all classes with 1-2 rest	To Move To Stage 4:
	Moderate Supports (provided in response to symptoms during day)	breaks (20-30'); begin quizzes. Moderate HW (60-90') Moderate expectations for productivity. Design schedule for make-up work.	Continued symptom improvement, needs no more than 1 cognitive rest break per day
4	Return to Full Day,	Attend all classes with 0-1 rest	To Move To Stage 5:
	Minimal Supports (Monitoring final recovery)	breaks (20-30'); begin modified tests (breaks, extra time). HW (90+') Moderate- maximum expectations for productivity.	No active symptoms, no exertional effects across the full school day.
5	Full Return, No	Full class schedule, no rest breaks.	N/A
	Supports Needed	Max. expectations for productivity. Begin to address make-up work.	

^{*}Cognitive rest break: a period during which the student refrains from academic or other cognitively demanding activities, including schoolwork, reading, TV/games, lengthy conversation. May involve a short nap or relaxation with eyes closed in a quiet setting.