How every family, school and medical professional can implement a Community-Based Concussion Management Program

REAP® The Benefits of Good Concussion Management

Remove/Reduce
Educate
Adjust/Accommodate
Pace

Authored by Karen McAvoy, PsyD

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Third Edition 2018
The Brain Injury Association of South Carolina (BIASC) is South Carolina’s only nonprofit organization that provides support to children and adults with brain injury and their families. Our mission is to create a better future through brain injury prevention, research, education, and advocacy.

The Brain Injury Association of South Carolina is proud to present the South Carolina version of the REAP Manual. It is our responsibility as the chartered state affiliate of the Brain Injury Association of America to bring together stakeholders, promote best practices, and provide high-quality educational resources to people across the state who work to prevent and treat brain injury in children and adolescents.

In 2012 and 2013, BIASC spearheaded efforts to pass the Student Athlete Concussion Law along with a passionate group of researchers, providers, parents, educators, and survivors. The law specifically outlines requirements for returning a student athlete diagnosed with a concussion back to play. It was a great first step in developing a coordinated system of care for a specific subset of students, and an important part of the movement to improve the lives of children who have had a brain injury. However, we know that TBI is more than a sports concussion issue. In the years since the law was passed, BIASC and its community partners have identified gaps in the system of care for all students returning to school after sustaining a concussion. Every student with any severity of brain injury deserves access to proper care, coordination of services, and support at school, since those are the key factors that lead to a successful recovery.

This manual is an important step towards helping SC families, educators, trainers, coaches, and providers develop a community-based concussion management approach, and brings together everyone who should be part of a student’s return to learn and return to play. We hope that this manual will be an asset to public and private schools in the state and will help to build a better system of care for students with concussions. We also hope that students and parents will feel more confident having important conversations with their schools and providers now that this manual is available in South Carolina.

Joyce Davis, CBIS, Executive Director,
Brain Injury Association of South Carolina

REAP®, which stands for Remove/Reduce • Educate • Adjust/Accommodate • Pace, is a community-based model for Concussion Management that was developed in Colorado. The early origins of REAP stem from the dedication of one typical high school and its surrounding community after the devastating loss of a freshman football player to “Second Impact Syndrome” in 2004. The author of REAP, Dr. Karen McAvoy, was the psychologist at the high school when the tragedy hit. As a School Psychologist, Dr. McAvoy quickly pulled together various team members at the school (Certified Athletic Trainer, School Nurse, Counselors, Teachers and Administrators) and team members outside the school (Students, Parents and Healthcare Professionals) to create a safety net for all students with concussion. Under Dr. McAvoy’s direction from 2004 to 2009, the interdisciplinary team approach evolved from one school community to one entire school district. Funded by an education grant from MINDSOURCE Brain Injury Network in 2009, Dr. McAvoy sat down and wrote up the essential elements of good interdisciplinary team concussion management and named it REAP thereby creating a model for concussion management that can be utilized by any community.

The benefits of good concussion management spelled out in REAP are known throughout communities in Colorado, nationally and internationally. REAP has been customized and personalized for various states and continues to be the “go-to” guide from the emergency department to school district to the office clinic waiting room.

Download a digital version of this publication at REAPconcnussion.com

In November of 2013, the American Academy of Pediatrics released a Clinical Report on Returning to Learning Following a Concussion (PEDIATRICS Volume 132, Number 5, November 2013) “based upon expert opinion and adapted from a program in Colorado”. The program referenced in the AAP Clinical Report is REAP!
How to use this Manual

Because it is important for each member of the Interdisciplinary Concussion Management Team to know and understand their part and the part of other members, this manual was written for all of the teams. As information is especially pertinent to a certain group, it is noted by a color.

» Pay close attention to the sections in **ORANGE**

<table>
<thead>
<tr>
<th>Family Team</th>
<th>For more specific information, download parent fact sheets from the various “Heads Up” Toolkits on the CDC website: <a href="https://www.cdc.gov/headsup/parents/index.html">https://www.cdc.gov/headsup/parents/index.html</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Team</td>
<td>Student, Parents; may include Friends, Grandparents, Primary Caretakers, Siblings and others…</td>
</tr>
</tbody>
</table>

» Pay close attention to the sections in **LIGHT BLUE**

<table>
<thead>
<tr>
<th>School Team Physical</th>
<th>For more specific information, download the free “Heads Up: Concussion in High School Sports or Concussion in Youth Sports” from the CDC website: <a href="https://www.cdc.gov/headsup/highschoolsports/index.html">https://www.cdc.gov/headsup/highschoolsports/index.html</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>School Team Physical</td>
<td>Coaches, Certified Athletic Trainers (AT), Physical Education Teachers, Playground Supervisors, School Nurses and others…</td>
</tr>
</tbody>
</table>

» Pay close attention to the sections in **DARKER BLUE**

<table>
<thead>
<tr>
<th>School Team Academic</th>
<th>For more specific information, download the free “Heads Up to Schools: Know Your Concussion ABCs” from the CDC website: <a href="https://www.cdc.gov/headsup/schools/index.html">https://www.cdc.gov/headsup/schools/index.html</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>School Team Academic</td>
<td>Teachers, Counselors, School Psychologists, School Social Workers, Administrators, School Neuropsychologists and others…</td>
</tr>
</tbody>
</table>

» Pay close attention to the sections in **GREEN**

<table>
<thead>
<tr>
<th>Medical Team</th>
<th>For more specific information, download the free “Heads Up: Brain Injury in your Practice” from the CDC website: <a href="https://www.cdc.gov/headsup/providers/index.html">https://www.cdc.gov/headsup/providers/index.html</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Team</td>
<td>Emergency Department, Primary Care Providers, Nurses, Concussion Specialists, Neurologists, Clinical Neuropsychologists &amp; others…</td>
</tr>
</tbody>
</table>

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REAPconcussion.com
Common Concussion Myths...

**TRUE or FALSE?**

Loss of consciousness (LOC) is necessary for a concussion to be diagnosed.

**False!** In 2012, approximately 430,000 Emergency Department (ED) visits resulted from sports and recreation-related mild traumatic brain injuries (mTBI).

Most concussions do not involve a loss of consciousness. While many students receive a concussion from sports-related activities, numerous other concussions occur from non-sports related activities – from bicycle and playground accidents.

**TRUE or FALSE?**

A concussion is just a “bump on the head.”

**False!** Actually, a concussion is a traumatic brain injury (TBI). The symptoms of a concussion can range from mild to severe and may include: confusion, disorientation, memory loss, slowed reaction times, emotional reactions, headaches and dizziness. You can’t predict how severe a concussion will be or how long the symptoms will last at the time of the injury.

**TRUE or FALSE?**

A parent should awaken a child who falls asleep after a head injury.

**False!** Current medical advice is that it is not dangerous to allow a child to sleep after a hit to the head if the child has been medically evaluated and more serious complications have been ruled out. Once a medical evaluation results in the diagnosis of concussion and not something more serious, then the best treatment is to allow the child to sleep.

**TRUE or FALSE?**

A concussion is usually diagnosed by neuroimaging tests (i.e. CT scan or MRI).

**False!** Concussions cannot be detected by neuroimaging tests: a concussion is a “functional” not “structural” injury. Concussions are typically diagnosed by careful examination of the signs and symptoms after the injury. Symptoms during a concussion are thought to be due to an ENERGY CRISIS in the brain cells. At the time of the concussion, the brain tries to protect itself by decreasing blood flow to injured areas. Because of the injury there is not enough “fuel” (sugar/glucose) delivery to keep brain cells (neurons) working normally – for playing and for thinking. Over time, this blood flow returns to normal as symptoms improve. While a CT scan or an MRI may be used after trauma to the head to look for bleeding or bruising in the brain, it will present as (be read as) “normal” with a concussion. A negative scan does not mean that a concussion did not occur.
Did You Know...

» More than 70% of concussions resolve successfully if managed well within the first four weeks post-injury. REAP sees the first four weeks post-injury as a “window of opportunity” to maximize positive outcomes. Research shows that the average recovery time for a child/adolescent is about 28 days, slightly longer than the average recovery time for an adult.

» REAP works on the premise that a concussion is best managed by an Interdisciplinary Team that includes: the Student/Athlete, the Family, various members of the School Team and the Medical Team. The unique perspective from each of these various teams is essential!

» The first day of the concussion is considered Day One. The first day of recovery also starts on Day One. REAP can help the Family, School and Medical Teams mobilize immediately to maximize recovery during the entire four week “window of opportunity.”

Concussions can be a complex situation affecting many aspects of a student’s life. An interdisciplinary team approach and a commitment to excellence are vital to combat these issues. Potential complications can be avoided by staying faithful to the standard of care – which includes communication, collaboration, and paying attention to the individual student’s needs. All members of the team (healthcare providers, students, coaches, parents, teachers, and support staff) need to be on the same page in order to empower and facilitate proper care for the student. Education for all members of the team has significant benefits in the thorough care and ultimate recovery of the student with a mild traumatic brain injury.

MEDICAL NOTE
Jeff Holloway, MD, CAQSM
Prisma Health / USC Department of Pediatrics

Message to Parents

To maximize your child's recovery from concussion, double up on the R's: REDUCE and REST! Insist that your child rest, especially for the first few days following the concussion and slightly cut back extracurricular and social activities over the four week recovery period. Some symptoms of concussion can be so severe on the first day or two that your child may need to stay home from school. When your child returns to school, request that he/she be allowed to “sit out” of sports, recess and physical education classes. Work with your Interdisciplinary Concussion Management Team to determine when your child is ready to return to physical activity, recess and/or PE classes (see PACE).

Don’t let your child convince you he/she will rest “later” (after the prom, after finals, etc.). Rest must happen immediately! The school team will help your child reduce their academic load [see Adjust/Accommodate]. However, it is your job to help to reduce sensory load at home. Advise your child/teen to:

• Avoid loud group functions (games, dances)
• Limit, (do not fully restrict) video games, text messaging, social media and computer screen time
• Limit, (do not fully restrict) reading and homework

A concussion will almost universally slow reaction time; therefore, driving should not be allowed pending medical approval or until a parent has made the effort to supervise driving again.

Plenty of sleep and quiet, restful activities after the concussion maximizes your child’s chances for a great recovery!

When should your child go back to school? See page 8.
EVERY Member of Every Team is Important!

Every team has an essential part to play at certain stages of the recovery

First The School Team/Physical (coach, AT, playground supervisor) and/or the Family Team (parent) have a critical role in the beginning of the concussion as they may be the first to RECOGNIZE and IDENTIFY the concussion and REMOVE the student/athlete from play.

Second The Medical Team then has an essential role in DIAGNOSING the concussion and RULING-OUT a more serious medical condition.

Third For the next 1 to 4 weeks the Family Team and the School Team/Academic will provide the majority of the MANAGEMENT by REDUCING social/home and school stimulation.

Fourth When all FOUR teams decide that the student/athlete is 100% back to pre-concussion functioning, the Medical Team can approve the Graduated Return to Sport (RTS) steps. See the PACE page.

Finally When the student/athlete successfully completes the RTS steps, the Medical Team can determine final “clearance.”

An “Interdisciplinary Team” = Adults who provide multiple perspectives of the student/athlete AND who provide multiple sources of data to gauge recovery status

Who will be on the Family Team (FT)? Who from the family will watch, monitor and track the emotional and sleep/energy symptoms of the concussion and how will the Family Team communicate with the School and Medical Teams?

Who will be on the School Team/Physical (ST/P)? Who at the school will watch, monitor and track the physical symptoms of the concussion? Who is the ST/P Point Person?

Who will be on the School Team/Academic (ST/A)? Who at the school will watch, monitor and track the academic and emotional effects of the concussion? Who is the ST/A Point Person?

Who will be on the Medical Team (MT)? How will the MT get information from all of the other teams and who with the MT will be responsible for coordinating data and updates from the other teams?

Throughout this book, the terms Return to School, Return to Learn, Return to Activity and Return to Sport are used distinctly and intentionally. However, because they all start with the words “Return to ...”, there is much confusion. These definitions will help:

Return to School is defined as the process of the student physically walking back into a school setting. The decision to send a child to school on any given day is directed by the parent and is dependent upon the student’s ability to manage symptoms well enough to be physically and cognitively present in the classroom to listen and learn [See ‘Adjust/Accommodate for Parents’ on Page 8].

Return to Learn is defined as the process by which educators help students with concussion maximize learning while minimizing symptom flare-ups. A successful Return to Learn plan is directed by educators, especially general education teachers, who have knowledge and skill in differentiated instruction to meet the needs of all students regardless of medical, psychological, learning, behavioral or social conditions [See ‘Adjust/Accommodate for Educators’ on Page 9].

Return to Activity is defined as the process of encouraging a person with a concussion to begin to add in sub-symptom threshold levels of physical and cognitive activity WHILE still in the recovery phase. A gradual re-introduction of cognitive, social and cardio activity (safe aerobic activity under close supervision) has been found to be therapeutic. Return to Activity differs from the progressive Graduated Return to Sport and it is not intended to take the place of the Graduated Return to Sport. Return to Activity happens prior to Graduated Return to Sport with the goal of contributing to asymptomatic status, thus allowing for the start of the Graduated Return to Sport. Widely applied, Return to Activity is a positive term used to encourage people recovering from concussion to stay engaged in their own physical, cognitive and emotional rehabilitation.

Graduated Return to Sport is the process of progressively returning athletes back to sport once they are 100% symptom-free [See ‘PACE’ on page 12].

Who will be on the Medical Team (MT)? How will the MT get information from all of the other teams and who with the MT will be responsible for coordinating data and updates from the other teams?
REAP suggests the following timeframe:

<table>
<thead>
<tr>
<th>TEAM</th>
<th>Week 1</th>
<th>Week 2</th>
<th>Week 3 &amp; Week 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Family Team</strong></td>
<td>• Impose rest.</td>
<td>• Continue to assess symptoms (at least 3X week or more as needed), monitor if symptoms are improving.</td>
<td>• Continue with all assessments (at least 2X week or more as needed).</td>
</tr>
<tr>
<td></td>
<td>• Assess symptoms daily – especially monitor sleep/energy and emotional symptoms.</td>
<td>• Continue to assess symptoms and increase/decrease stimulation at home accordingly.</td>
<td>• Continue to assess symptoms and increase/decrease stimulation at home accordingly.</td>
</tr>
<tr>
<td><strong>School Team/Physical Coach/AT/School Nurse</strong></td>
<td>• REMOVE from all play/physical activities!</td>
<td>• Continue to assess symptoms (at least 3X week or more as needed).</td>
<td>• Continue with all assessments (at least 2X week or more as needed).</td>
</tr>
<tr>
<td></td>
<td>• Assess physical symptoms daily, use objective rating scale.</td>
<td>• AT: Continue postural-stability assessment, as needed.</td>
<td>• AT: Continue postural-stability assessment, as needed.</td>
</tr>
<tr>
<td></td>
<td>• AT: assess postural-stability (see NATA reference in RESOURCES).</td>
<td>• School Nurse: Continue to monitor visits to school clinic. Work with student to manage symptoms by taking “pacing” and “strategic rest” breaks so student can ideally be at school daily for full days. See ADJUST/ACCOMMODATE section.</td>
<td>• School Nurse: Continue to monitor visits to school clinic. Work with student to manage symptoms by taking “pacing” and “strategic rest” breaks so student can ideally be at school daily for full days. See ADJUST/ACCOMMODATE section.</td>
</tr>
<tr>
<td><strong>School Team/Academic Educators, School Psychologist, Counselor, Social Worker</strong></td>
<td>• REDUCE (do not eliminate) all cognitive demands.</td>
<td>• Continue to assess symptoms (at least 3X week or more as needed) and slowly increase/decrease cognitive and academic demands accordingly.</td>
<td>• Continue to assess symptoms (at least 2X week or more as needed) and increase/decrease cognitive and academic demands accordingly.</td>
</tr>
<tr>
<td></td>
<td>• Meet with student periodically to create academic adjustments for cognitive/emotional reduction no later than Day 2/3 and then assess again by Day 7.</td>
<td>• Continue academic adjustments, as needed.</td>
<td>• Continue academic adjustments, as needed.</td>
</tr>
<tr>
<td></td>
<td>• Educate all teachers on the symptoms of concussion.</td>
<td>• See ADJUST/ACCOMMODATE section.</td>
<td>• Assess if longer term academic accommodations are needed (May need to consider a 504 Plan beyond 4+ weeks).</td>
</tr>
<tr>
<td></td>
<td>• See ADJUST/ACCOMMODATE section.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Medical Team</strong></td>
<td>• Assess and diagnose concussion.</td>
<td>• Continue to consult with school and family teams.</td>
<td>• Continue to consult with school and home teams.</td>
</tr>
<tr>
<td></td>
<td>• Assess for head injury complications, which may require additional evaluation and management.</td>
<td>• Follow-up medical check including: comprehensive history, neurologic exam, detailed assessment of mental status, cognitive function, gait and balance.</td>
<td>• Consider referral to a Specialty Concussion Clinic if symptoms are especially problematic or long.</td>
</tr>
<tr>
<td></td>
<td>• Recommend return to school with academic adjustments once symptoms are improving and tolerable, typically within 48 to 72 hours. Do NOT hold students out of school until they are totally “symptom-free.”</td>
<td>• Educate student/athlete and family on the typical course of concussion and the need for rest with gradual re-integration of “activity” (school, home and social stimulation, light cardio exercise under the supervision of parent and/or physical therapist).</td>
<td>• It is best practice that a medical professional be involved in the management of each and every concussion, not just those covered by legislation.</td>
</tr>
<tr>
<td></td>
<td>• Educate student/athlete and family on the typical course of concussion and the need for rest with gradual re-integration of “activity” (school, home and social stimulation, light cardio exercise under the supervision of parent and/or physical therapist).</td>
<td>• Monitor that symptoms are improving throughout Week 1 – not worsening in the first 48 to 72 hours.</td>
<td></td>
</tr>
</tbody>
</table>

*Family should sign a Release of Information so that School Team and Medical Team can communicate with each other as soon as possible.

Don’t be alarmed by symptoms – symptoms are the hallmark of concussion. The goal is to watch for a slow and steady improvement in symptoms over weeks. **It is typical for symptoms to be present for up to three to four weeks.** If symptoms persist at Week 4+, see SPECIAL CONSIDERATIONS.
Once a concussion has been diagnosed:

**STEP ONE: REMOVE student/athlete from all physical activities. REDUCE school demands and home/social stimulation.**

**The biggest concern with concussions** in children/teens is the risk of injuring the brain again before recovery. This is called “Second Impact Syndrome,” and it is thought to occur when an already injured brain takes another hit resulting in possible massive swelling, brain damage and/or death. The concussed brain is in a vulnerable state, and even a minor impact can result in a much more severe injury with risk of permanent brain damage, or rarely, even death. Therefore, once a concussion has been identified, it is critical to REMOVE a student/athlete from ALL physical activity, including PE classes, dance, active recess, recreational and club sports until medically cleared.

Secondly, **while the brain is still recovering**, all school demands and home/social stimulation should be reasonably REDUCED (not eliminated completely) and then slowly brought back up over 4 weeks. Reducing demands on the brain will promote REST and will help recovery.

<table>
<thead>
<tr>
<th>Team</th>
<th>Recommended Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Family</strong></td>
<td>REMOVE student/athlete from all physical activity immediately, including play at home (i.e. playground, bikes, skateboards), recreational, and/or club sports. REDUCE or limit home/social stimulation, including texting. Do not totally restrict electronics and social activities; make a reasonable home plan. Encourage REST for the first few days followed by a gradual re-introduction of cognitive, social and home activities.</td>
</tr>
<tr>
<td><strong>School Team</strong></td>
<td>REMOVE student/athlete from all physical activity immediately. Support REDUCTION of school demands and home/social stimulation. Provide encouragement to REST and take the needed time to heal.</td>
</tr>
<tr>
<td><strong>Medical Team</strong></td>
<td>REMOVE student/athlete from all physical activity at school, including PE, recess, dance class. REDUCE or limit school demands. Do not totally restrict academic expectations. (See ADJUST/ACCOMMODATE for Educators on pages 9-10). Encourage “brain REST” breaks at school.</td>
</tr>
</tbody>
</table>

After surviving the surgery and being released from the hospital, Brennen endured months of rehabilitation, including speech, occupational, and physical therapy. He was able to complete his senior year of high school, with limitations and accommodations. Now, Brennen has recovered from his brain injury with minimal long-term effects. He is a 2017 graduate of Charleston Southern University with a major in Christian Studies and minor in Psychology. He is now married, and he and his wife now live in North Carolina where he is studying to go into full time ministry at Southeastern Baptist Theological Seminary.
STEP TWO: EDUCATE all teams that symptoms tell the story of the recovery of the concussion.

After a concussion, the brain cells are temporarily inefficient. A helpful way for students, parents and teachers to think of a concussion is as an “energy crisis”; not as something scary like a bruise or a bleed. Here are two energy management scripts to use with your kids children/teens/students:

“When you have a concussion, you are like an iPhone 4, you are not an iPhone X. You are not broken, you are just not holding a charge long enough.”

“When you have a concussion, you are like a car with a small gas tank. You can get out of the garage (go to school, socialize with friends) but you need to ‘do, then fuel.’ The symptoms function like an indicator light on the car’s dashboard. When they ‘flare’, they are simply a signal of how well you have been managing your energy levels.”

Symptoms become the barometer of the concussion. If symptoms may be present for up to 4 weeks (albeit hopefully decreasing daily/weekly), it is our duty to teach our children how to “pace their energy so they can control their symptoms” – that is the best way for them to stay engaged in school and life while holding symptoms at bay. Learning to manage symptoms is an active approach to rehabilitation! Doing cognitive and home activities in smaller amounts followed by eye/brain/water intake breaks (5 to 10 minutes)... “do, then fuel”... is how the school and home plan can be rehabilitative and not restrictive. It is unreasonable to ask a child/teen to never text or watch TV over 4 weeks. It is unreasonable to ask a teacher to never ask a student to read or look at a computer or complete some in-class schoolwork or homework over 4 weeks. If we want our children/teens/students to be engaged in their own recovery, we have to keep them reasonably engaged in their own lives – socially, academically and at home – while we are waiting for the concussion to heal.

**MEDICAL NOTE**

Kerry Sease, MD
President of the South Carolina Chapter of the American Academy of Pediatrics

Did you know that excessive rest after a concussion has been associated with worse symptoms and longer recovery? In the past, health professionals recommended very little stimulation. These recommendations are no longer considered standard of care. Because of the social and emotional importance of school, it is beneficial to help students gradually return to their normal routine. The new guidelines for the first week include “push to, not through, symptoms.” Tolerating more and more academic and physical activity without worsening symptoms are signs of a healthy recovery.

**IMPORTANT**

All symptoms of concussion are important; however, monitoring of physical symptoms, within the first 48 to 72 hours is critical! If physical symptoms worsen, especially headache, confusion, disorientation, vomiting, difficulty awakening, it may be a sign that a more serious medical condition is developing in the brain.

**SEEK IMMEDIATE MEDICAL ATTENTION!**
STEP THREE: ADJUST/ACCOMMODATE for PARENTS.

AFTER YOUR CHILD HAS RECEIVED THE DIAGNOSIS OF CONCUSSION by a healthcare professional, their symptoms will determine when they should return to school. As the parent, you will likely be the one to decide when your child goes back to school, because you are the one who sees your child every morning before school. Use the chart below to help decide when it is right to send your child back to school:

<table>
<thead>
<tr>
<th>STAY HOME – EARLY SLEEP</th>
<th>STAY HOME – LIGHT ACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>If your child’s symptoms are so severe that he/she cannot concentrate for even 10 minutes, he/she should be kept home on total bed rest – no texting, no driving, no reading, no video games, no homework, limited TV. It is unusual for this state to last beyond a few days. Consult a physician if this state lasts more than 2 days.</td>
<td>If your child’s symptoms are improving but he/she can still only concentrate for up to 20 minutes, he/she should be kept home – but may not need total bed rest. Your child can start light mental activity (e.g. sitting up, watching TV, light reading), as long as symptoms do not worsen. If they do, cut back the activity and build in more REST.</td>
</tr>
</tbody>
</table>

TRANITION BACK TO SCHOOL

When your child is beginning to tolerate 30 to 45 minutes of light mental activity, you can consider returning them to school. As they return to school:

- Parents should communicate with the school (school nurse, teacher, school mental health and/or counselor) when bringing the student into school for the first time after the concussion.
- Parents and the school should decide together the level of academic adjustment needed at school depending upon:
  - The severity of symptoms present
  - The type of symptoms present
  - The times of day when the student feels better or worse
  - The child MUST sit out of physical activity – gym/PE classes, highly physically active classes (dance, weight training) and physically active recess until medically cleared.
  - Consider removing child from band or music if symptoms are provoked by sound.

India moved to Columbia with her family in 2016, but as soon as she arrived at her new school, she became a victim of bullying. One day in the 7th grade, another student at the school began to threaten and harass her. He hit India in the head with his backpack, which had a metal water bottle in it. She was knocked unconscious and quickly taken to the school nurse’s office, where her nose and face began to swell. India was taken to her pediatrician that same day, but because her visible head wounds were so severe, the doctor didn’t realize that India had sustained a concussion.

Three days later, India was taken to the emergency room by her parents because she was still in a great deal of pain – but no one at the ER identified her concussion either. Over the next few months, however, her parents started to notice changes in her behavior – India was struggling at school, had extreme mood changes, was sensitive to light and sound, had headaches all the time, was nauseous for no reason, and her balance was off. Finally, in the fall of 2018, India was referred to a clinical psychologist who was able to diagnose her with a TBI and started treating her concussion-related symptoms.

India is currently being taken care of by a multi-disciplinary team of healthcare professionals: a clinical psychologist, a neuro-optometrist, a pediatric concussion specialist, a vestibular therapist, and mental health care providers. She changed schools and is now able to thrive in her high school environment – she’s even on the varsity golf team!

India’s mom, Toschia, says, “This is a journey that has a lot of implications for parents – we’re currently working with her medical team to figure out what combination of medicine and therapy will be best for India and her success in school. We HAVE to have a team. India’s guidance counselor, her teachers, even the school administrators and leadership have been involved in making sure India is doing her best.”

School Administrator Note

Returning to academics after a concussion can be a daunting task for students. Because the injury can seriously impact a student’s academic performance, it is important for schools to have the ability to design an individualized academic adjustment plan so that the student can continue their education quickly and without fear of their grades declining. Depending on the symptoms, students may require some temporary accommodations such as a shortened school day or an altered academic load. School professionals should observe and check in with the student for the first two weeks back in the classroom. However, it is not necessary to hold students out of school until they are 100% symptom-free. Following a concussion, researchers say that students should return to school when their symptoms are “tolerable, short-lived, and amenable to rest and intervention.” – David Sweem, MS, Principal, South Middle School and Lisa Norman, Academic Dean, Heathwood Hall Episcopal School.
### Most Common “Thinking” Cognitive Problems Post-Concussion

And suggested adjustments/accommodations

<table>
<thead>
<tr>
<th>Areas of concern</th>
<th>Suggested Accommodations for Return-to-Learn (RTL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatigue, specifically Mental Fatigue</td>
<td>• Schedule “strategic” rest periods. Do not wait until the student’s over-tiredness results in an emotional “meltdown.” Proactively adjust the schedule to incorporate a 15-20 minute rest period 1X mid-morning and 1X mid-afternoon, as needed.</td>
</tr>
<tr>
<td></td>
<td>• Allow for “PACING” – 5 to 10 minute eye/brain/water breaks in the classroom after periods of mental exertion.</td>
</tr>
<tr>
<td></td>
<td>• Do not consider “quiet reading” as rest for all students.</td>
</tr>
<tr>
<td></td>
<td>• Consider letting the student have sunglasses, headphones, preferential seating, quiet work space, passing in quiet halls, etc., as needed.</td>
</tr>
<tr>
<td>Difficulty concentrating</td>
<td>• REDUCE the cognitive load—it is a fact that smaller amounts of learning will take place during the recovery.</td>
</tr>
<tr>
<td></td>
<td>• Since learning during recovery is compromised, the academic team must decide: What is the most important concept for the student to learn during this recovery?</td>
</tr>
<tr>
<td></td>
<td>• Be careful not to tax the student cognitively by demanding that all learning continue at the rate prior to the concussion.</td>
</tr>
<tr>
<td>Slowed processing speed</td>
<td>• Provide extra time for tests and projects and/or shorten tasks.</td>
</tr>
<tr>
<td></td>
<td>• Assess whether the student has large tests or projects due during the 4-week recovery period and remove or adjust due dates.</td>
</tr>
<tr>
<td></td>
<td>• Provide a peer notetaker or copies of teacher’s notes during recovery.</td>
</tr>
<tr>
<td></td>
<td>• Grade work completed—do not penalize for work not done.</td>
</tr>
<tr>
<td>Difficulty with working memory</td>
<td>• Initially exempt the student from routine work/tests.</td>
</tr>
<tr>
<td></td>
<td>• Since memory during recovery is limited, the academic team must decide: What are the most important concepts for the student to know?</td>
</tr>
<tr>
<td></td>
<td>• Work toward comprehension of a smaller amount of material versus rote memorization.</td>
</tr>
<tr>
<td>Difficulty converting new learning into memory</td>
<td>• Allow student to “audit” the material during this time.</td>
</tr>
<tr>
<td></td>
<td>• REMOVE “busy” work that is not essential for comprehension. Making the student accountable for all of the work missed during the recovery period (4 weeks) places undue cognitive and emotional strain on him/her and may hamper recovery.</td>
</tr>
<tr>
<td></td>
<td>• Ease student back into full academic/cognitive load.</td>
</tr>
<tr>
<td>Emotional symptoms</td>
<td>• Be mindful of emotional symptoms throughout! Students are often scared, overloaded, frustrated, irritable, angry and depressed as a result of concussion. They respond well to support and reassurance that what they are feeling is often the typical course of recovery.</td>
</tr>
<tr>
<td></td>
<td>• Watch for secondary symptoms of depression – usually from social isolation. Watch for secondary symptoms of anxiety – usually from concerns over make-up work or slipping grades.</td>
</tr>
<tr>
<td></td>
<td>• New research informs us of the impact a concussion can have on emotional well-being. Supportive psychological support, education, cognitive-behavioral strategies and stress reduction are all suggested for psychological rehabilitation.</td>
</tr>
</tbody>
</table>

**School Team Educators**

**Return to Learn (RTL)**

RTL refers to a teacher’s ability to help a student with a concussion learn to “pace” levels of energy in order to maximize learning while minimally contributing to symptom flare-ups. A RTL plan is most robust when teachers, especially general education teachers, are empowered to make educational decisions for their students hourly, daily and weekly, as they see fit. While medical input may be helpful in an RTL plan, teachers need not wait for medical input/“clearance”/approval to apply or remove academic adjustments, especially if medical input is not forthcoming, timely, available or relevant. RTL recommendations provided by healthcare providers are “suggestions,” not mandates. Schools may accept or reject outside RTL suggestions based upon its educational soundness, feasibility and alignment with school policy/protocol.
STEP THREE: ADJUST/ACCOMMODATE for EDUCATORS (continued)

Typically, students’ symptoms only require 2 to 3 days of absence from school. If more than 3 days are missed, call a meeting with parents and seek a medical explanation.

New research shows that students who rested for 1 to 2 days followed by a gradual return to activities (school, socializing) had fewer reported symptoms then students who took 5 days of strict rest.7

More rest has not been proven to be the fastest, easiest way to recover from a concussion! A reasonable amount of rest, followed by a measured increase in home and school activities (activities that do not overly exacerbate symptoms) seems to be the formula for better concussion recovery.

An inefficiently fueled brain leads primarily to:

- mental fatigue
- slowed processing speed
- difficulty learning new material (aka problems with short-term memory)

How do you deal with mental fatigue in your classroom already (perhaps due to mono or family stress)? You might offer more rest breaks or some TLC.

How do you deal with a student’s inability to get through in-class work due to slowed processing speed (perhaps due to ADHD)? If you teach math, you might assign every other problem. If you teach social studies, you might have the student listen with supplemental buddy notes.

What do you do if a student with seizures has been physically or cognitively unavailable to learn and now is scheduled to take a test? You might offer them the option of an oral presentation.

You see, the key to supporting a student with a concussion is “differentiated instruction,” a tool already within your repertoire! If you know how to help students with mental fatigue, slowed processing speed and short-term memory problems, you know how to support students with a concussion.

The best academic adjustment you can offer a student with a concussion is: REMOVAL of non-essential in-class work/homework and a REDUCTION of semi-essential in-class work/homework. Extension or postponement of work is less helpful to a student with a concussion unless it is used in combination with removal and reduction of in-class work/homework.

Adapted from GetSchooledOnConcussions.com 5

Read “Return to Learning: Going Back to School Following a Concussion” at nasponline.org/publications/cq/40/6/return-to-learning.aspx 8
How do I get back to my sport?
A.K.A. How do I get “cleared” from this concussion?

While 70% of concussions will resolve in 4 weeks, a healthcare professional, whether in the Emergency Department or in a clinic, cannot predict the length of time or the course of recovery from a concussion. In fact, a healthcare professional should never tell a family that a concussion will resolve in X number of days, because every concussion is different and each recovery time period is unique. The best way to assess when a student/athlete is ready to start the step-wise process of “Returning-to-Sport” is to ask these questions:

» Is the student/athlete 100% symptom-free at home?
   - Use the Symptom Checklist every few days. All symptoms should be at “0” on the checklist or at least back to the perceived “baseline” symptom level.
   - Look at what the student/athlete is doing. At home he/she should be acting the same way as before the concussion, doing chores, interacting normally with friends and family.
   - Symptoms should not return when the student/athlete is exposed to the loud, busy environment of home/social, mall or restaurants.

» Is the student 100% symptom-free at school?
   - Your student/athlete should be handling school work at the same level as before the concussion.
   - Use the Teacher Feedback Form (APPENDIX) to see what teachers are noticing.
   - Watch your child/teen doing homework; he/she should be able to complete homework as efficiently as before the concussion.
   - In-school test scores should be back to where they were pre-concussion.
   - School workload should be back to where it was pre-concussion.
   - Symptoms should not return when the student/athlete is exposed to the loud, busy environment of school.

» If the school or healthcare professional has used neurocognitive testing, are scores back to baseline or at least reflect normative average and/or baseline functioning?

» If an athletic trainer (AT) or physical therapist (PT) is involved with the concussion, does the AT or PT feel that the student/athlete has reached his/her objective goals?
   - Ask AT for feedback and/or serial administrations of the Symptom Checklist.

» Is the student off all medications used to treat the concussion?
   - This includes over-the-counter medications such as ibuprofen, naproxen and acetaminophen, which may have been used to treat headache or pain.

If the answer to any of the questions is “NO,” stay the course with management and continue to repeat:

- REMOVE physical activity
- REDUCE home and cognitive demands
- EDUCATE: Let the symptoms direct the interventions
- ADJUST/ACCOMMODATE: home/social and school activities

... for however long it takes for the brain cells to heal!

The true test of recovery is to notice a steady decrease in symptoms while noticing a steady increase in the ability to handle more rigorous home social and school demands (Return to Activity). PARENTS and TEACHERS try to add in more home/social and school activities and test out those brain cells!

Once the answers to the questions above are all “YES,” turn the page to the PACE page to see what to do next!
Graduated Return-to-Sport (RTS) Strategy

**Step 1:**
- **Aim:** Symptom-limited activity
- **Activity:** Daily activities that do not provoke symptoms
- **Goal:** Gradual reintroduction of work/school activities

**Step 2:**
- **Aim:** Light aerobic exercise
- **Activity:** Walking or stationary cycling at slow to medium pace. No resistance training
- **Goal:** Increase heart rate

**Step 3:**
- **Aim:** Sport-specific exercise
- **Activity:** Running or skating drills. No head impact activities
- **Goal:** Add movement

**Step 4:**
- **Aim:** Non-contact training drills
- **Activity:** Harder training drills, e.g. passing drills. May start progressive resistance training
- **Goal:** Exercise, coordination and increased thinking

**Step 5:**
- **Aim:** Full contact practice
- **Activity:** Following medical clearance, participate in normal training activities
- **Goal:** Restore confidence and assess functional skills by coaching staff

**Step 6:**
- **Aim:** Return to sport
- **Activity:** Normal game play

**Note:** An initial period of 24 – 48 hours of both relative physical rest and cognitive rest is recommended before beginning the RTS progression. There should be at least 24 hours (or longer) for each step of the progression. If any symptoms worsen during exercise, the athlete should go back to the previous step. Resistance training should be added only in the later stages (stage 3 or 4 at the earliest). If symptoms are persistent (e.g. more than 10 – 14 days in adults or more than 1 month in children), the athlete should be referred to a healthcare professional who is an expert in the management of concussion.

International Consensus Statements have outlined this as a safe practice for professional athletes when returning to an organized sport; these steps might ideally also be applied as best practice when returning any person with a concussion back to a recreational sport/activity.

**Rehabilitation Note:** Specialized care is pivotal to making an efficient and effective recovery from concussion. For example, when there are post-concussion visual concerns, it is important to find an eye care provider that specializes in vision rehabilitation. Left undiagnosed or untreated, lingering vision problems can prevent a full return to the demands of academics, sports, or work. In the vision care world, a Doctor of Optometry who has board certification in optometric vision therapy is best suited to diagnose and treat the problems with a student’s vision. Other specialists who are important to consider during a student’s recovery are: vestibular physical therapists, who work with patients on balance problems and prolonged symptoms of dizziness, and occupational therapists, who can teach students strategies to manage symptoms and help with the transition back to school.

Katie Davis, OD, FCOVD, The Vision Therapy Institute
We now know, 70% of concussions will resolve within 4 weeks.

However, there remains the 30% of student/athletes who have on-going physical, cognitive, emotional or sleep/energy symptoms well beyond the 4 week mark. In those cases, the parent and medical professionals are advised to look to the school system for existing educational initiatives available to all students. A number of educational initiatives (Response to Intervention RTI; Multi-Tier System of Support MTSS) allow for ascending levels of supports for any student with a medical, psychological, behavioral or social condition impacting learning. Concussion, in theory, is a short-term, temporary condition that sometimes needs higher levels of educational support when it does not resolve in a timely fashion. Ascending levels of support suggest that good teaching and reasonable academic “adjustments” in the general education classroom are helpful to any and all students who struggle in an academic setting. Ascending levels of support are applicable to concussion. We have called this “Response to Management (RTM).”

With ascending levels of support, we maximize the student/athlete’s recovery by focusing on good academic “adjustments” in the general education classroom.

A smaller percentage of students who struggle beyond the general education classroom may need a small amount of “targeted intervention” called academic “accommodation.” Academic “accommodations” may be provided via a Health Plan, a Learning Plan, a 504 Plan. It is still hoped that the accommodations for learning, behavior or concussions are temporary and amenable to intervention but may take months (instead of weeks) for progress to show. Lastly, in the rare event that a permanent “disability” is responsible for the educational struggle, the student may be assessed and staffed into special education services (IDEA) and provided an IEP (Individualized Education Program). This would constitute an extremely small number of students with a concussion. The interdisciplinary teams need to continue to work together with the student/athlete with protracted recovery. Parents and medical professionals need to seek medical explanation and treatment for slowed recovery; educators need to continue to provide the appropriate supports and the school physical team needs to continue to keep the student/athlete out of physical play.

**Concussion Management Guidelines**

**Tier 1**
- Universal Interventions
- Preventive and Proactive

**Tier 2**
- Targeted Group Interventions
- At-risk Students
- High Intensity
- Rapid Response

**Tier 3**
- Intensive Interventions
- High Intensity
- Longer Duration

**Tier 4**
- Low-intensity Intervention
- Extended Duration

**Tier 5**
- Special Education/IEA
- Academic Modifications

**Tier 6**
- Specialized Intervention Plan
- Academic Accommodations

**Tier 7**
- The majority of students respond well to Universal Support

**Tier 8**
- Response to Intervention (RTI)
  - Rossiter et al., 2008

**Tier 9**
- Response to Management (RTM)
  - McKen, 2012

**Words Matter:** Use these terms intentionally: Adjustments/Accommodations/Modifications

**DAYS TO WEEKS:** Academic Adjustments
Informal, flexible day-to-day adjustments in the general education classroom for the first 3 to 4 weeks of a concussion. Can be lifted easily when no longer needed.

**WEEKS TO MONTHS:** Academic Accommodations
Slightly longer accommodations to the environment/learning to account for a longer than 4+ week recovery. Helps with grading, helps justify school supports for a longer time.

**MONTHS TO YEARS:** Academic Modifications
Actual changes to the curriculum/placement/instruction.

**Psychology Note**
Ashley Harbin, PhD, CBIS, Lake Psychological Services

Sometimes the severity of an injury can predict the type and duration of concussion symptoms, but it is often more complex than that. Certain groups are at greater risk for a more prolonged recovery, including students with a history of ADHD, learning disorders, migraine headaches, prior concussions, and anxiety or depression.

When a child fails to respond to typical interventions, medical providers must be vigilant to signs of emotional distress and declining mood. Concussion-related physical, cognitive, and emotional symptoms intersect with each other and with family dynamics and coping skills. Collaborative care is even more important in these complicated cases.

Research supports the fact that individuals who sustain one concussion are at a higher risk for sustaining another one. Sometimes, persistent neuropsychological changes after too many concussions can mean that a child or adolescent will not be permitted to return to a beloved sport due to the risks associated with future brain injuries. Then, the loss of an important source of self-esteem is often compounded by newfound social isolation. In order to assess these factors and intervene appropriately, families often need to take advantage of specialty care from psychologists and other mental health providers who have training in treating traumatic brain injury.
### South Carolina Brain Injury Resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brain Injury Association of South Carolina</td>
<td><a href="https://www.biaofsc.org">https://www.biaofsc.org</a></td>
</tr>
<tr>
<td>Brain Injury Navigator</td>
<td><a href="http://www.binav.org">http://www.binav.org</a></td>
</tr>
<tr>
<td>SC Athletic Trainers’ Association</td>
<td><a href="https://scata.wildapricot.org">https://scata.wildapricot.org</a></td>
</tr>
<tr>
<td>South Carolina High School League</td>
<td><a href="http://schsl.org">http://schsl.org</a></td>
</tr>
<tr>
<td>SC Department of Education, Office of Special Education Services</td>
<td><a href="https://ed.sc.gov/distincts-schools/special-education-services/">https://ed.sc.gov/distincts-schools/special-education-services/</a></td>
</tr>
<tr>
<td>SC Brain Injury Leadership Council</td>
<td><a href="https://scblic.com">https://scblic.com</a></td>
</tr>
</tbody>
</table>

### National Brain Injury Resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINDSOURCE Brain Injury Network</td>
<td><a href="https://mindsourcerecolorado.org/">https://mindsourcerecolorado.org/</a> 303-866-4173</td>
</tr>
<tr>
<td>Vision Therapy Information</td>
<td><a href="https://www.cvrd.org">https://www.cvrd.org</a> <a href="https://concussionproject.com">https://concussionproject.com</a> <a href="http://www.noravisionrehab.com">http://www.noravisionrehab.com</a></td>
</tr>
<tr>
<td>National Federation of State High School Associations</td>
<td><a href="http://nfhs.org">http://nfhs.org</a></td>
</tr>
<tr>
<td>Get Schooled on Concussions</td>
<td><a href="https://www.getschooledonconcussions.com">https://www.getschooledonconcussions.com</a></td>
</tr>
<tr>
<td>Brainline</td>
<td><a href="http://www.brainline.org">www.brainline.org</a></td>
</tr>
<tr>
<td>Brain Injury and Youth: Supports for School Success</td>
<td><a href="www.youthbraininjury/obaverse.net">www.youthbraininjury/obaverse.net</a></td>
</tr>
</tbody>
</table>

### Please Note:

This publication is not a substitute for seeking medical care.

REAP is available for customization in your state.

### All questions or comments and requests for in-services/trainings can be directed to:

- Karen McAvoy, PsyD
  - REAPconcussion.com
  - Karen@GetSchooledOnConcussions.com

### Special thanks to...

India and Toschia Young
Brennan Barber and his mother, Barbara Barber

Our expert SC contributors: Jeff Holloway, MD, CAQSM; Joyce Davis, CBIS; Kerry Sease, MD; Emilie Z. Bartlett, MD; David Sweem, MS; Lisa Norman; Katie Davis, OD; Joyce Davis, CBIS; Kerry Sease, MD; Emilie Z. Bartlett, MD; David Sweem, MS; Lisa Norman; Katie Davis, OD, PCOVD; and Ashley Harbin, PhD, CBIS; George Wham, PhD; and Katie Zenger, MPH, for Brain Injury Safety Net project coordination

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The 2013 Colorado version of the REAP publication is available in Spanish upon request.

### REFERENCES

10. Wrightslaw, Section 504 and IDEA: Basic Similarities and Differences, Rosenfeld, SJ. www.wrightslaw.com/advoc/articles/504_IDEA_Rosenfeld.html
### Symptom Checklist

**Name:** ________________________________________________________  
**Assessment Date:** ________________________________________________

**Date of Injury:** _______________________________________  
**Time of Injury:** 2-3 Hrs  24 Hrs  48 Hrs  72 Hrs  Daily  Weekly

<table>
<thead>
<tr>
<th>Pathways of Concern</th>
<th>Symptoms</th>
<th>Severity Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Mild</td>
</tr>
<tr>
<td>A</td>
<td>I feel like I’m going to faint</td>
<td>0</td>
</tr>
<tr>
<td>V</td>
<td>I’m having trouble balancing</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel dizzy</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>It feels like the room is spinning</td>
<td>0</td>
</tr>
<tr>
<td>O</td>
<td>Things look blurry</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I see double</td>
<td>0</td>
</tr>
<tr>
<td>H</td>
<td>I have headaches</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel sick to my stomach (nauseated)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Noise/sound bothers me</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>The light bothers my eyes</td>
<td>0</td>
</tr>
<tr>
<td>C</td>
<td>I have pressure in my head</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel numbness and tingling</td>
<td>0</td>
</tr>
<tr>
<td>N</td>
<td>I have neck pain</td>
<td>0</td>
</tr>
<tr>
<td>S/E</td>
<td>I have trouble falling asleep</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel like sleeping too much</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel like I am not getting enough sleep</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I have low energy (fatigue)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel tired a lot (drowsiness)</td>
<td>0</td>
</tr>
<tr>
<td>Cog</td>
<td>I have trouble paying attention</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I am easily distracted</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I have trouble concentrating</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I have trouble remembering things</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I have trouble following directions</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel like my thinking is “foggy”</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel like I am moving at a slower speed</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I don’t feel “right”</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel confused</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I have trouble learning new things</td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>I feel more emotional</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel sad</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel nervous</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I feel irritable or grouchy</td>
<td>0</td>
</tr>
</tbody>
</table>

**Other:** ___________________________________________________________________________________________________________________________________________________________________


Regular symptom progress monitoring is recommended as best practice.
Teacher Feedback Form

Student’s Name ________________________________

Date ____________________________

Date of Concussion_______________

Student: you have been diagnosed with a concussion. It is your responsibility to gather data from your teachers before you return to the doctor for a follow-up visit. A day or two before your next appointment, go around to all of your teachers (especially the CORE classes) and ask them to fill in the boxes below based upon how you are currently functioning in their class(es).

Teachers: Thank you for your help with this student. Your feedback is very valuable. We do not want to release this student back to physical activity if you are still seeing physical, cognitive, and emotional or sleep/energy symptoms in your classroom(s). If you have any concerns, please state them below.

1. Your name
2. Class taught

Is the student still receiving any academic adjustments in your class? If so, what?

Have you noticed, or has the student reported, any concussion symptoms lately? (e.g. complaints of headaches, dizziness, difficulty concentrating or remembering, more irritable, fatigued than usual etc.) If yes, please explain.

Do you believe this student is performing at his/her pre-concussion learning level?

║ Yes ☐ No ☐ Date:              Signature:              
║ Date:              Signature:              

║ Yes ☐ No ☐ Date:              Signature:              

║ Yes ☐ No ☐ Date:              Signature:              

║ Yes ☐ No ☐ Date:              Signature:              

║ Yes ☐ No ☐ Date:              Signature:              

Regular academic progress monitoring is recommended as best practice.

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South Carolina Student Athlete Concussion Law

The South Carolina Student Athlete Concussion Law was signed by then-Governor Nikki Haley on June 7, 2013, and went into effect starting in the 2013-14 school year. The law outlines requirements for safe return to play for student-athletes in all South Carolina schools, and requires state agencies, public schools, and professionals working with students to provide information and guidelines for safe play and concussion management to parents, guardians, and the public. The full law is available at the website:


SC State Law Requirements

• The SC Department of Health and Environmental Control (SCDHEC) and the SC Department of Education must provide nationally-recognized guidelines and procedures regarding the identification and management of suspected concussions in student athletes on their public websites. The SCDHEC must also provide model policies that incorporate best practices and guidelines for the “identification, management, and return to play decisions for concussions” and continuing education opportunities for healthcare providers on concussion evaluation and management.

• The law applies to South Carolina High School League-sanctioned events.

Requirements for Schools:

• Every local school district must develop guidelines and procedures based on nationally-recognized model policies.

• Every year, each school district is required to provide an information sheet to all coaches, volunteers, student athletes, and their parents or legal guardian which informs them of “the nature and risk of concussion and brain injury, including the risks associated with continuing to play after a concussion or brain injury.”

• If a coach, athletic trainer, official, or physician suspects a student-athlete has sustained a concussion either during practice or competition, the student-athlete must be removed from play. He or she may return to play that day if and only if an athletic trainer, physician, physician’s assistant, or nurse practitioner evaluates the athlete and determines that he or she has no signs or symptoms of a concussion.

Requirements for Parents:

• Each year, ALL student-athletes, including cheerleaders, must have a parent sign the information sheet and return it to the school before they are allowed to participate in any school-based sports.

• If a student-athlete does exhibit signs or symptoms of a concussion and has been removed from practice or a competition, he or she “may not return to play until the student athlete has received written medical clearance by a physician.”

Statement of Liability:

• “The athletic trainer, physician, physician assistant, or nurse practitioner who evaluates the student athlete during practice or an athletic competition and authorizes the student athlete to return to play is not liable for civil damages resulting from an act or omission in rendering this decision, other than acts or omissions constituting gross negligence or willful, wanton misconduct. This immunity applies to an athletic trainer, physician, physician assistant, or nurse practitioner serving as a volunteer.”
If you or a loved one have experienced a concussion or other traumatic brain injury, please reach out for services and support by contacting the Brain Injury Association of South Carolina Toll Free HelpLine: 1-877-TBI-FACT

To support ongoing efforts to educate school personnel, coaches, athletic trainers, and parents on concussion recognition, please consider making a tax-free donation to the Brain Injury Association of South Carolina.

Donate Online via Network for Good at: https://www.networkforgood.org/donation/ExpressDonation.aspx?ORGID2=571068415

Or Mail to:
Brain Injury Association of South Carolina
121 Executive Center Drive, Suite 135
Columbia, SC 29210

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