

Gfeller-Waller/NCHSAA Concussion Management Guiding Principles



Health and Safety Personnel

Licensed Physician - Physician Licensed to Practice Medicine (MD or DO) under Article 1 of Chapter 90 of the General Statutes and has training in concussion management.

Licensed Athletic Trainer (LAT) - An individual who is licensed under Article 34 of Chapter 90 of the General Statutes entitling them to perform the functions and duties of an athletic trainer.

Licensed Physician Assistant (PA) - Any person who is licensed under the provisions of G.S. 90-9.3 to perform medical acts, tasks, and functions as an assistant to a physician.

Licensed Nurse Practitioner (NP) - Any nurse approved under the provisions of G.S. 90-18(14) to perform medical acts, tasks or functions

First Responder (FR) - A first responder must meet the requirements set forth by the North Carolina State Board of Education Policy ATHL-000.

Key Tenets of Concussion Management

- No athlete with a suspected concussion is allowed return to practice or play the same day that his or her head injury occurred.
- 2. Athletes should never return to play or practice if they still have ANY symptoms.
- 3. A concussion is a traumatic brain injury that can present in several ways and with a variety of signs, symptoms, and neurologic deficits that can present immediately or evolve over time.
- 4. Both academic and cognitive considerations should be addressed when managing a student-athlete with a concussion. The NC Dept. of Public Instruction now requires a "Return to Learn" plan for students with suspected head injury. Also, consider guidance on proper sleep hygiene, nutrition, and hydration.
- 5. More than one evaluation is typically necessary for medical clearance for concussion. Due to the need to monitor concussions for recurrence of signs and symptoms with cognitive or physical stress, <u>Emergency Room and Urgent Care physicians typically should not make clearance decisions at the time of first visit.</u>
- 6. In order to clear an athlete to return to sport without restriction, an athlete should be completely symptom-free both at rest AND with cognitive stress, then with full physical exertion (i.e. has completed **Return to Play Protocol**).
- 7. It is not feasible for a provider to diagnosis an acute concussion and provide clearance on the same day.

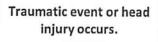
NCHSAA specific requirements regarding the Gfeller-Waller Concussion Awareness Law as defined by NCHSAA Sports Medicine Advisory Committee (SMAC)

- All member school student-athletes must have a Licensed Physician's (MD/DO) signature on the RETURN TO PLAY FORM and/or Medical Provider Concussion Evaluation Form. If the physician has signed the Medical Provider Concussion Evaluation Form both the Return to Play Protocol and decision to release of the student athlete to full participation in athletics may be delegated to the Licensed Athletic Trainer.
- 2. The physician signing the RETURN TO PLAY FORM and/or the Medical Provider Concussion Evaluation Medical Recommendation Form is licensed under Article 1 of Chapter 90 of the General Statutes and has training in concussion management.
- Physicians may choose to delegate aspects of the student-athlete's care to a licensed athletic trainer, licensed nurse
 practitioner or licensed physician assistant who is working under that physician's supervision, and may work in
 collaboration with a licensed neuropsychologist in compliance with the Gfeller-Waller Concussion Law for
 RTP clearance.



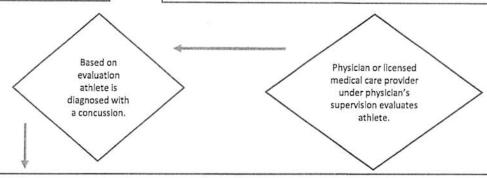


NCHSAA Student-Athlete Concussion Management Algorithm



Athlete has signs, symptoms, or behaviors of a concussion or is suspected to have sustained a concussion.

NCHSAA Concussion Injury History is completed.



Medical Provider Concussion Evaluation Recommendations

- Licensed physician provides care for the athlete and/or delegates aspects of care to a licensed medical provider who is working under the physician's supervision.
- 2. Recommendations are selected for SCHOOL, SPORTS, and PE based on the evaluation findings.

Concussion Return-To-Learn Recommendations

Educational accommodations are selected.

(Evaluation Recommendations and Return-to Learn Recommendations are provided to appropriate school personnel who will monitor the student-athlete's Concussion Return-to-Play Protocol.)

NCHSAA Concussion Return to Play Protocol

A step-by-step progression of physical and cognitive exertion is widely accepted as the appropriate approach to ensure a concussion has been resolved, and that an athlete can safely return to full participation in athletics. It is with this in mind that the NCHSAA Concussion Return to Play Protocol has been designed. Please refer to the Concussion Gradual Return-to-Play Protocol FAQ for guidance when monitoring the student-athlete's RTP.

RETURN TO PLAY FORM

Licensed Physician: 1. Must sign the Return to Play Form if the physician did not sign the Medical Provider Concussion Evaluation Recommendation Form. 2. Must sign the Return to Play Form if the Return to Play Protocol was monitored by first responder.

Licensed Athletic Trainer: May sign the Return to Play Form when stage 5 is successfully completed with approval of the Licensed Physician who signed the Medical Provider Concussion Evaluation Recommendation Form.

First Responder: The Return to Play Form <u>MUST</u> be completed and signed by the Licensed Physician overseeing the student-athlete's care before stage 5 begins.

Parent/Legal Custodian: Must sign Return to Play Form giving consent for their child to return to participation in athletics.

Athlete Resumes Full Participation in Athletics



NCHSAA Concussion Injury History



Student-Athlete's Name:		Sport:	Male/Female
Date of Birth: Da	te of Injur	y: School:	
Following the injury, did the	Circle	Duration (write number/	Comments
athlete experience:	one	circle appropriate)	<u> </u>
Loss of consciousness or	YES	seconds / minutes /	
unresponsiveness?	NO .	hours	
Seizure or convulsive activity?	YES	seconds / minutes /]
	NO	hours	
Balance problems/unsteadiness?	YES	minutes / hrs / days /	
	NO	weeks /continues	
Dizziness?	YES	minutes / hrs / days /	
	NO	weeks /continues	
Headache?	YES	minutes / hrs / days /	į.
	NO	weeks /continues	
Nausea?	YES	minutes / hrs / days /	
	NO	weeks /continues	
Emotional Instability (abnormal	YES	minutes / hrs / days /	
laughing, crying, anger?)	NO	weeks/ continues	
Confusion?	YES	minutes / hrs / days /	
	NO	weeks /continues	
Difficulty concentrating?	YES	minutes / hrs / days /	
	NO	weeks /continues	
Vision problems?	YES	minutes / hrs / days /	
	NO	weeks /continues	
Other	YES	minutes / hrs / days /	
	NO	weeks/continues	
Describe how the injury occurred:			
A.I. Balance I. Jane II.	_		
Additional details:			
**************	******	*******	********
Name of person completing Injury Histor	ry:		
Contact Information: Phone Number:		Email:	

Injury History Section completed by: Licensed Athletic Trainer, First Responder, Coach, Parent, Other (Please Circle)
Rev June 2017



Medical Provider Concussion Evaluation Recommendations



(To be completed by Licensed Physician (MD/DO) or an LAT, PA, or NP under treating physician's supervision)

Name of Athlete:		_ DOB:	Date of Evaluation:
Due to the need to mor should not make clearar latest information on th Bill 792 Gfeller-Waller Concussion Evaluation	nitor concussions for recurrence of signs & symptoms water decisions at the time of first visit. All medical provide eevaluation and care of the scholastic athlete following concussion Awareness Act for requirements for clearance,	ith cognitive or phy rs are encouraged a concussion injury, and please initial o	(O) signature prior to resuming full participation in athletics. ysical stress, <u>Emergency Room and Urgent Care physicians</u> to review the CDC site if they have questions regarding the . Providers should refer to NC Session Law 2011-147, House any recommendations you select. (Adapted from the Acute e NCHSAA concussion Return to Play Protocol.) The
RETURN TO SCHOOL: PLEASE NOTE	The North Carolina State Board of Education beginning 2016-2017 school year to address A sample of accommodations is found on the	earning and educa	tional needs for students following a concussion.
SCHOOL (ACADEMICS): (Physician identified below should check all recommendations that apply.)	☐ Out of school until ☐ May return to school on with ac Learn Recommendations page. ☐ May return to school now with no accommodation		selected on the Concussion Return to
RETURN TO SPORTS: PLEASE NOTE	A step-by-step progression of physical and cognitive exertion is widely accepted as the appropriate approach to ensure a concussion has resolved, and an athlete can return to sport safely. The NCHSAA Concussion Return to Play Protocol has been designed using a step-by-step progression.		
SPORTS & PHYSICAL: EDUCATION (Physician identified below should check all recommendations that apply.)	 □ Not cleared for sports at this time. □ Not cleared for physical education at this time. □ May do light physical education that poses no risk of the proposition of the poses in the proposition of the	ng and may return efore returning to : ensed Athletic Trail free of signs/sympl	to PE activities after completion. sports/physical education. ner (LAT) and progress through all five stages with no toms the LAT may sign the RETURN TO PLAY FORM
licensed physician ass neuropsychologist in c	Comment: e to delegate aspects of the student-athlete's care istant who is working under that physician's super compliance with the Gfeller-Waller Concussion Law pleting the requested information at the bottom of	rvision, and may v for RTP clearan	
Circums of Disserting	United the Breathand State of the State of t		Date
Signature of Physician	Licensed to Practice Medicine MD / DO		
Please Print Name			
Office Address Physician signing this form is and has training in concussion	licensed under Article 1 of Chapter 90 of the General Statutes in management.	P	hone Number
* The physician above	has delegated aspects of the student-athlete's ca	re to the individu	al designated below *.
Signature of LAT, NP, P	A-C, Neuropsychologist (Please Circle)		Date
Please Print Name			
Office Address Rev June 2017		PI	hone Number
WAL JUIL FAT			



Concussion Return-To-Learn Recommendations



(To be completed by Licensed Physician (MD/DO) or an LAT, PA, or NP under treating physician's supervision)

Name of Athlete:	DOB:	Date:
Following a concussion, most individuals typically need some degree of c such as reading, watching TV or movies, playing video games, working/pl worsen symptoms during the acute period after concussion. Navigating recently concussed student-athlete. A Return-To-Learn policy facilitates learning environment. Healthcare providers should consider whether aca symptom burden. It is important to the review academic/school situation that may be beneficial.	laying on the computer and/ academic requirements and a gradual progression of co demic and school modificati	or texting require cognitive effort and can d a school setting present a challenge to a ognitive demand for student-athletes in a ions may help expedite recovery and lower
Educational accommodations that may be helpful are listed below.		
Return to school with the following supports:		
Length of Day Shortened day. Recommended hours per day until re-e ≤ 4 hours per day in class (consider alternating days of morni Shortened classes (i.e. rest breaks during classes). Maximum Use class as a stu	ng/afternoon classes to man class length of minu dy hall in a quiet environme	kimize class participation) ites. nt.
Check for the return of symptoms when doing activities that Extra Time Allow extra time to complete coursework/assignments and to	ests.	concentration.
Take rest breaks during the day as needed (particularly if syn Homework Lessen homework by % per class, or minutes/cl		minutes nightly,
no more thanminutes continuous. Testing No significant classroom or standardized testing at this time, Limited classroom testing allowed. No more than ques Student is able to take quizzes or tests but no bubble Student able to take tests but should be allowed ext Limit test and quiz taking to no more than one per day May resume regular test taking.	tions and/or total ties sheets.	
Lessen screen time (SMART board, computer, videos, etc.) to than continuous minutes (with 5-10 minute break in b Print class notes and online assignments (14 font or larger red Allow student to wear sunglasses or hat with bill worn forward to the student to wear sunglasses or hat with bill worn forward to provide alternative setting during band or music class (outsid Provide alternative setting during PE and/or recess to avoid n Allow early class release for class transitions to reduce exposed Provide alternative location to eat lunch outside of cafeteria Allow the use of earplugs when in noisy environment Patient should not attend athletic practice Patient is allowed to be present but not participate in practice.	etween). This includes read commended) to allow to kee d to reduce light exposure. e of that room). oise exposure and risk of inj ure to hallway noise/activity	ling notes off screens. ep up with online work. ury (out of gym).
Additional Recommendations:		





NCHSAA Concussion Return to Play Protocol

Name of	Student- Athlete:		Sport:		Male/Female
DOB:	Date of Inj	ury:	Date C	oncussion Diagnosed:	
Licensed Athletic Trainers: All 5 stages listed below must be completed under the observation of a Licensed Athletic Trainer. The Return to Play Form can then be signed by the Licensed Athletic Trainer, with approval of the Licensed Physician overseeing the student-athlete's care, thereby releasing the student-athlete to full participation in athletics. First Responders: If the return to play protocol is being monitored by a First Responder, the Licensed Physician overseeing the student-athlete's care should be kept appraised of his/her progress. This progress may be reviewed electronically or by phone and does not require an additional office visit, unless otherwise indicated by the Licensed Physician. However, the Return to Play Form MUST be completed and signed by the Licensed Physician overseeing the student-athlete's care before Stage 5 is begun.					
STAGE	EXERCISE	GOAL	DATE SUCESSFULLY COMPLETED	COMMENTS	MONITORED BY
1	20-30 min of cardio activity: walking, stationary bike.	Perceived intensity/exertion: Light Activity			
2	30 min of cardio activity: jogging at medium pace. Body weight resistance exercise (e.g. push-ups, lunge walks) with minimal head rotation x 25 each.	Perceived intensity/exertion: Moderate Activity			
3	30 minutes of cardio activity: running at fast pace, incorporate intervals. Increase repetitions of body weight resistance exercise (eg. sit-ups, pushups, lunge walks) x 50 each. Sportspecific agility drills in three planes of movement.	Perceived intensity/exertion: Hard Activity, changes of direction with increased head and eye movement			
4	Participate in non-contact practice drills. Warm-up and stretch x 10 minutes. Intense, non-contact, sportspecific agility drills x 30-60 minutes.	Perceived intensity/exertion: High/Maximum Effort Activity			
	If First Responder is monitoring progress, athlete's care before stage 5 is begun.	The RETURN TO PLAY	FORM MUST be signed	by the Licensed Physician oversee	ing student-
5	Participate in full practice. If in a contact s contact practice allowed.	• Could be #00 be doubt a consequence of the country of the countr			
	If signs or symptoms occur after stage 5 t	he student-athlete <u>MU</u>	ST return to Licensed P	hysician overseeing student-athle	te's care.
Individual who monitored the student-athlete's Return-to Play Protocol should sign and date below when stage 5 is successfully completed. By signing below, I attest that I have monitored the above named student-athlete's return to play protocol.					
Signature of Licensed Physician, Licensed Athletic Trainer, Licensed Physician Assistant, Licensed Nurse Practitioner, Licensed Neuropsychologist, or First Responder (Please Circle)					

Please Print Name





North Carolina High School Athletic Association

RETURN TO PLAY FORM:

CONCUSSION MEDICAL CLEARANCE RELEASING THE STUDENT-ATHLETE TO RETURN TO ATHLETIC PARTICIPATION

Name of Athlete:	Sp	ort:	Male/Female
DOB:	Date of Injury:	Date Concussion	n Diagnosed:
This is to certify that the about attest that the above-name and reports he/she is entirel exertional/physical stress.	ed student-athlete is now	reporting to be complet	tely free of all clinical signs
(If previously designated by	the Licensed Physician ov	verseeing the student-ath	hletes care, this form may
be completed by a Licensed			44 4 5 6 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5
By signing below, I attest that Protocol through stage 4. The free, may resume full participal Signature of Physician Licensed	student-athlete is released tion in athletics. to Practice Medicine MI		
Physician signing this form is licensed under Article 1 of Chapter 90 of the General Statutes and has training in concussion management.		Physician Office Stamp:	
Please Print Name			
By signing below, I attest that Protocol and is now released to Signature			mpleted the Return to Play
By signing below, I hereby give	ase Print Name consent for my child to ret	urn to full participation in	athletics.
Signature	of Parent/Legal Custodian		Date
Plea	se Print Name		