ADOPTING CONCUSSION **LEGISLATION BEST PRACTICES**

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SKYHAWKS

What we will cover

- History
 - · Concussions in the NFL
- · Concussions in college
- · Centers for Disease Control (CDC) Reported Concussion
- Zackery Lystedt Law
 - Education
 - · Remove from play
- · Return to play
- State Legislation
- · Secondary School Sports Medicine Advisory Cmte

- · Resources for Education
- · Who is responsible for removing an athlete from participation
- · Who can clear an athlete to return to play
- · Graded return to play
- · Community programs
- Concussion Management plans
- Safe Schools
- Athletic Trainers



NFL and concussions

- "NFL announces a four-year, \$60 million effort to develop imaging technology for detecting, treating and preventing brain injuries.
 - · \$40 million building specialized equipment for diagnosing head
 - \$20 million to challenge researchers to develop new ideas for helmets and other safety equipment." (This report is an excerpt. So
- "[The] NFL and Riddell face lawsuits filed by more than 4,000 ex-players. The litigation focuses on Riddell's helmets and whether the league covered up long-term damage to players' brains."



The National Collegiate Athletic Association

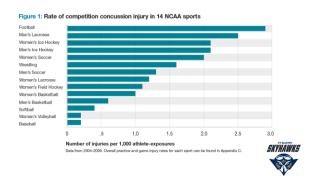
NCAA CONCUSSION POLICY AND LEGISLATION

The NCAL Security Committee adopted (April 2010) the following policy for institutions in all three divisions: concession management pages of the page of the page of the page of the page of the management page of the page

Effect of violation. A violation of Con 3.2.4.17 shall be considered an institu-per Constitution 2.8.1; however, the vi-not affect the student-athlete's eligibil



NCAA Concussion Rates



CDC Concussion Data

- CDC analyzed data from the National Electronic Injury Surveillance System-All Injury Program (NEISS-AIP) for the years 2001-2010
- Emergency department (ED) visits for children ≤ 19 years of age suffering from a sports or recreation-related concussion or traumatic brain injury (TBI) rose 62%
- Highest rates of increase were seen in males aged 10-19 years
- Activities resulting in the greatest number of ED visits were bicycling, football, playground activities, basketball, and soccer

Concussion Data

SEX	AGE <u><</u> 9	AGE 10-19
MALE	 Playground activities Biking 	Football Biking
FEMALE	Playground activities Biking	Soccer/Basketball Biking



Zackery Lystedt



Source: http://www.seattlemag.com/article/story-behind-zackerylystedt-law



Source: http://www.odc.gov/concussion/pdf/a_fathers_story-a.pc

History of concussion legislation

Lystedt Law

- Named for Zackery Lystedt who, in 2006, suffered a brain injury following his return to a middle school football game after sustaining a concussion.
- · Lystedt family and supporters lobbied for a law to protect young athletes in all sports from returning to play too soon.
- · The Lystedt Law (2009) contains three essential elements:
- · Athletes, parents and coaches must be educated about the dangers of concussions each year.
- · If a young athlete is suspected of having a concussion, he/she must be removed from a game or practice and not be permitted to return to play. "When in doubt, sit them out."
- A licensed health care professional must clear the young athlete to return to play in the subsequent days or weeks.

(Source: http://apps.leg.wa.gov/rcw/default.aspx?cite=28A.600.190)



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Legislation Table



http://www.lawatlas.org/query?dataset=sc-reboo

National Federation of High School Assn

Question: Do you have a Sports Medicine Advisory Committee?



Source: http://www.nfhs.org/sports-resource-content/member-state

Tenet 1: Participant/Parent/Coaches Information and Acknowledgement

The first condition of the Lystedt Law is education

- · Information distributed to the athlete and parent
 - · What is a concussion
 - Signs and symptoms
 - · Return to play procedures
 - Dangers of 2nd impact
 - · Acknowledge receipt of educational information
- · Coaches must have concussion training
- Common sources for information
 - National Federation of High Schools (NFHS)
 - Centers for Disease Control (CDC)
 - USA Football



Training Resources - NFHS



Source: http://www.nfhslearn.com/electiveDetail.aspx?courseID=38000

Training Resources - CDC



Resource: http://www.cdc.gov/concussion/index.html

Training Resources – USA Football



Source: http://usafootball.com/health-safety/concussion-awareness

Education Resources

- The CDC and National Federation of High Schools are the most commonly cited resource for concussion education materials.
 - Educational videos for coaches, parents and healthcare providers
 - Educational handouts for coaches, parents/athletes and healthcare providers



USA Football

- USA Football is endorsed by both the NFL and the National Athletic Trainers' Association
- · Multiple videos on concussion recognition
- Printable resources
- Multiple videos on tackling and hitting techniques to reduce the incidence of concussions

Which ever resources you use, it is imperative that the resources meet the terms of the state law. Most athletic associations will have adopted forms.



Tenet 2: Removal From Play

The second element is, "when in doubt, sit them out"

- Coaches must be trained on the recognition of the signs and symptoms of concussions
- Since many athletic events (practices, conditioning sessions, competitions) are not covered by a health care professional the decision to pull an athlete falls upon the coach(es) and in some cases the officials.
- If a concussion is suspected that athlete may not be returned to play that day.

A student removed from play should be monitored for signs of deterioration/decline.

Removal from Play

- Once removed from play the student must be assessed by a healthcare professional
- It is critical that they person assessing the athlete be trained in concussion assessment and care
- A generalized "physical" approach is not going to be adequate to make a comprehensive plan for returning to play and school

Heads Up



http://www.cdc.gov/headsup/providers/tools.html

Nazansa	licate presence of ea	ch sy	npton	1 (0=No, 1=Yes).			"Lovell &	Comme	i, 199	8 JHTR
Names	PHYSICAL (10)			COGNITIVE (4)			SLEEP (4)			
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Ballace prefations 0 1 Distructy resorbering 0 1 Tradition litting always 0 1 NAC Districtions 0 1 Copyright Tradition 1 SLEEP Total (-6)	Nausea	0	1	Feeling slowed down	0	1	Sleeping less than usual	0	1	N/A
Dizziness 0 1 COGNITIVE Total (0-4) SLEEP Total (0-4)	Vomiting	0	1	Difficulty concentrating	0	1	Sleeping more than usual	0	1	N/A
Visual problems 0 1 EMOTIONAL (4) Eartiflee De These symptoms gozzan with. Foliagise 0 1 Scholley 0 1 Physical Activity - Ves - Mo - JAA Screalingly to light 0 1 Scholley to visite - Ves - Mo - JAA Acceptible Activity - Ves - Mo - JAA Screalingly to visite - Ves	Balance problems	0	1	Difficulty remembering	0	1	Trouble falling asleep	0	1	N/A
Faltgum 0 1 Imitability 0 1 Secretively to light 0 1 More controlled 1 Coopyries Activity - Yes _ JN.OJNA Comparing Activity _ Yes _ JN.OJNA Comparing Activity _ Yes _ JN.OJNA Comparing Intelligent Comparing Secretively _ Yes _ JN.OJNA Comparing Secr	Dizziness	0	1	COGNITIVE Total (0-4)			SLEEP Total (0-4)			
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Numbness/Tingling 0 1 Nervousness 0 1 Overall Rating: How <u>different</u> is the person acting compared to his/her usual self? (circle)	Sensitivity to light	0	1	Sadness	0	1				
Numbness/Tingling 0 1 Nervousness 0 1 compared to his/her usual self? (circle)	Sensitivity to noise	0	1	More emotional	0	1	O			
PHYSICAL Total (0-10) EMOTIONAL Total (0-4) Normal 0 1 2 3 4 5 6 Very Different	Numbness/Tingling	0	1	Nervousness	0	1				son acting
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http://www.cdc.gov/headsup/providers/tools.htm

Concussion History? Y N	1.9	Headache History? Y N	14:	Developmental History	N.	Psychiatric History
Previous # 1 2 3 4 5 6+	Т	Prior treatment for headache		Learning disabilities		Aroxiety
Longest symptom duration	Т	History of migraine headache		Attention-Deficit/		Depression
Days_Weeks_Months_Years_		Personal Family		Hyperactivity Disorder		Sleep disorder
If multiple concussions, less force caused reinjury? YesNo	1		-	Other developmental disorder		Other psychiatric disords
usi coser comorbio medical disorders or r		ancer usage (e.g., rippostyrous, sect				
* Seizures * Repeated * Focal neurologic signs * Sturred sp	mana y dros vomit weech	agement: Refer to the emergency diversified awakened "Can't recoing "Increasing "Weakness	gnize p confue or nurr	eople or places "Nec ion or irritability "Unu bness in arms/legs "Cha	pain sual b nge in	ehavioral change state of consciousness
D. RED FLAGS for acute emergency : "Headaches that worsen 'Looks very "Seizures 'Repeated : "Focal neurologic signs 'Sturred sp	mana y dros vomit weech	agement: Refer to the emergency described "Can't recoing "Increasing	gnize p confue or nurr	eople or places "Nec ion or irritability "Unu bness in arms/legs "Cha	pain sual b nge in	ehavioral change state of consciousness

http://www.cdc.gov/headsup/providers/tools.html

Tenet 3: Return to Play

The third element of the Lystedt Law is a return to play protocol.

- Each State is different regarding who can clear an athlete to return to play
 - · MD or DO (trained in concussion management)
 - Neuroscientist (specific concussion training)
 - Physician Assistant or Nurse Practitioner (specific training)
 - · Certified Athletic Trainer
- Know the rules in your State. The forms are not clear about who can return an athlete to play.



	SSION EVALUATION	(ACE)		ent Name:			
	CARE PLAN		00		pr.		
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Triseal	of Milatoryh Medical Center		Det	Date of Injury.			
You have been diag your symptoms and	proced with a concue is designed to help	iskon (islao knos speed your rec	em as a milit overy. Your o	traumatic brain Injury). careful attention to it can	This personal plan is based also prevent further injury.		
have any of the syn job-related activities your concentration	riptoms below. It is in it, as this can also m and thinking are back	portant to limit ake your sympt to normal, you	activities the forms worse. It can slowly	at require a lot of thirsen if you no longer have a and carefully return to y	riding a bike, etc.) if you still g or concentration (horneworny symptoms and believe the cour daily activities. Children elp morator their recovery an		
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Neusea	Sensitivity to noise	Problems cone		Sadress	Seeping now fron usual		
Petigue	Numberora/Tingling	Problema reme	unbering	Feelingmen errotonal	Sieeping less than usual		
Visual problems	Venting	Feeling most s		Nervousness.	Touble falling asleep		
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					me weekstays and weekends		
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Physical a Trusting a	ctivity includes PE, s	ports practices lyther (e.g., ho	, weight trainmenterk, cla	ning, running, exercising seasons load, job-related	, heavy litting, etc.		
4. Drank lots of flui	ds and eat carbohyde	ates or protein	to main app	ropriate blood sugar lev	reis.		
5. As symptoms return, lessen	decrease, you may I your activities, then	begin to gradu try again to in	sally return screase you	to your daily activities ir activities gradually.	. If symptoms worsen or		
					ou can't be as active as usua		
7. Repeated evalu	ation of your sympton	ть із песотен	eded to help	guide recovery.			
		Retu	ming to Si	thool			
H you for your di As your for your	rêd) are still having sy shilidhi symptoms d	mptoms of cond	oussion you i	may need extra help to p	orform school-stated activities can be removed gradually		
2. Inform the teach		school psychols	point or cour	selor, and administrato	r(s) about your (or your child		
	problems paying affe						
 Increased 	problems remember	ing or learning	new informs	tion			
	ne needed to complet stability, less able to o						
Symptome	worsen (e.g., heads	che, firednessi	when doing	schoolwork			







Return to Play

- It is important to understand that the forms that have been identified by your State for use meeting concussion laws can be added to.
- · If a school district takes a more proactive approach to concussion care, then the basic information can be enhanced to require more than what the State law requires, but not less.

Concussion Mgnt Plans

Graded RTP Protocol

- No activity
- Light aerobic exercise
- Sport-specific exercise
- Non-contact training drills
- Full contact practice
- Return to play

 $\frac{\text{http://www.cdc.gov/concussion/headsup/retur}}{\text{n_to_play.html}}$

NFHS

http://www.ndhsaa.com/uploads/files/NFHS Concussion Management Brochure.pdf



Modified RTP progression

- Day 2: Moderate levels of physical activity with body/head movement. This includes moderate logging, brief running, moderate intensity on the stationary cycle, moderate intensity weightlifting (reduce time and or reduced weight from your typical routine).
- Day 3: Heavy non-contact physical activity. This includes sprinting/running, high intensity stationary cycling, completing the regular lifting routine, non-contact sport specific drifts (agility with 3 plannes of movement).

 Day 4: Sports Specific practice

 Day 5: Full contact in a controlled drift or practice.

 Day 6: Return to competition

 or competition.

Concussion Programs/Products

- Sport Concussion Assessment Tool-3rd Ed.
 - http://bjsm.bmj.com/content/47/5/259.full.pdf
 - Symptom Scale
 - Immediate memory
 - Concentration Delayed recall
 - Coordination
- · ImPACT (pre/post) http://www.impacttest.com
- · Shockbox Sensor
- · Riddell helmets: Pro Edition, Revolution, and Gladiator



Accountability

- · State to State the requirements for maintaining the documentation proving compliance to policies varies.
- · Know who in your School District is responsible for keeping track of all required concussion forms and coaches training.
- · Always keep a back-up copy of your documentation.
- · ...BUT THERE IS SOMETHING MISSING IN ALL THIS LEGISLATION...



What is missing...

Phys	sical	Thinking	Emotional	Sleep		
Headaches	Sensitivity to light	Feeling mentally foggy	Irritability	Drowsiness		
Nausea	Sensitivity to noise	Problems concentrating	Sadness	Sleeping more than usua		
Fatigue	Numbness/Tingling	Problems remembering	Feeling more emotional	Sleeping less than usual		
Visual problems	Vomiting	Feeling more slowed down	Nervousness	Trouble falling asleep		
Balance Problems	Dizziness					

RED FLAGS: Call your doctor or go to your emergency department if you suddenly experience any of the following						
Headaches that worsen	Look <u>yery</u> drowsy, can't be awakened	Can't recognize people or places	Unusual behavior change			
Seizures	Repeated vomiting	Increasing confusion	Increasing irritability			
Nack pain	Slurred sneech	Weakness or numbness in arms or lons	Loss of consciousness			

Return to School (class)

- 1. If you (or your child) are still having symptoms of concussion you may need extra help to perform school-related activities. As your (or your child's) symptoms of concussion you may need extra help or supports can be removed gradually.

 2. Inform the stacher(s), school nurse, school peychologist or counselor, and administrator(s) about your (or your child's) injury and symptoms. School personnel should be instructed to waich for:

 1. Increased problems pringing aftention or concentrating

 1. Increased problems remembering or learning new information

 1. Longer time needed to complete leasts or assignments

 2. Symptoms worsen (e.g., headache, tiendness) when doing schoolwork.

- Until you (or your child) have fully recovered, the following supports are recommended: (check all that apply)
 _No return to school. Return on (date) Return to school with following supports. Review on (date)
 Shortened day. Recommend ____ hours per day until (date) Shortened classes (i.e., rest breaks during classes). Maximum class length: ____ minutes. ___Allow extra time to complete coursework/assignments and tests. Lessen homework load by %. Maximum length of nightly homework: minutes.

 No significant classroom or standardized testing at this time. Check for the return of symptoms (use symptom table on front page of this form) when doing activities that require a lot of attention or concentration.
- _Take rest breaks during the day as needed. _Request meeting of 504 or School Management Team to discuss this plan and needed supports.

North Carolina HS Athletic Assn.

Athlete's Name School ______
INJURY HISTORY
Date of Injury ____

toss of consciousness or unresponsiveness? VES leitzure or consultate archity? VES lokarce problems/unsteadiness? VES locationss? VES	NO NO	minutes / hours minutes / hours hrs / days / weeks /continues	
Balance problems/unsteadiness? YES Vizziness? YES	NO		
Dizziness? YES		hes I days I would I rentireyes	
		hrs / days / weeks /continues	1
Headache? YES	NO	hrs / days / weeks /continues	1
Nouseo? YES	NO	hrs / days / weeks /continues	1
Emotional Instability (abnormal laughing, crying, anger?) YES!	NO	hrs / days / weeks/ continues	1
Confusion? YES	NO	hrs / days / weeks /continues	1
Difficulty concentrating? YES	NO	hrs / days / weeks /continues	1
Vision problems? YES	NO .	hrs / days / weeks /continues	1
Other YES	NO		1

Sports Concussion Institute





Journal of School Nursing

K-I2 Students With Concussions: A Legal Perspective

BSAGE

Perry A. Zirkel, PhD, JD, LLM¹, and Brenda Eagan Brown, MEd²

Abstract
This article provides a multipart analysis of the public schools' responsibility for students with concussions. The first part
provides the prevailing diagnostic definitions of concussions and postconcustive syndrome. The second and central part
provides (a) he light framework of the two overlapping deferral laws—the dividuals with Disabilities Education Act and
Section 504 of the Rabibilitation Act and the varying state laws or local policies for individuals beth plans and (b) a summary of
the developing body of hearing officer decision, court officer for Clin Rights ratings that have applied this
framework to K-12 students with concussions. The fluid part offers recommendations for proactive return to school policies,
with the school name playing a central supporting role.

http://isn.sagepub.com/content/early/2014/02/05/1059840514521465.abstract

National Assn of School Psychologists

Return to Learning: Going Back to School Following a Concussion

Almost everyone understands the rationale for physical rest following a concussion. The cases Almost everyone understands the rationale for physical rest following a concussion. The cases of second impact syndrome, the phenomenon in which a student can suffer permanent brain damage or death from a second blow to the head during recovery from an initial blow (Cantu, 1998), highlight the importance of not returning to play (RTP) before the concussion is 100% healed. In just the past few years, experts in the field of concussion have come to the realization that cognitive demands, much like physical demands, can worsen symptoms and can delay recovery (Majestek et al., 2008). While the end result of continuing to push through cognitive exertion has yet to cause catastrophic brain damage or death, it would be wrong to believe that exertion has yet to cause catastrophic brain damage or death, it would be wrong to believe that there are no risks at all. To date, there are no agreed upon formulas for return to learning (RTL). This is due largely to the fact that the return to school following concussion is an extremely individualized process. In concussion management, both RTP and RTL are common and important terms, but they are not parallel processes. The school psychologist and/or the school nurse are uniquely poised to facilitate the transition of a student with a concussion from the medical setting back to the educational setting.

http://www.hellgate.k12.mt.us/cms/lib/MT15000294/Centricity/Domain/1/Going%20Back%20to%20School%20Following %20a%20Concussion off

National Athletic Trainers' Assn

Journal of Athletic Training 2009;44(4):434-448
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consensus statement

Consensus Statement on Concussion in Sport: The 3rd International Conference on Concussion in Sport Held in Zurich, November 2008

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'University of Melbourne, Parkville, Australia; †University of Calgary, Calgary, Alberta, Canada; †Toronto Rehabilitation Institute, Toronto, Ontario, Canada; §FIFA Medical Assessment and Research Center and Schulthess Cificia, Curlich, Suixterfand; Illenderational Cel Hockey Federation, Hockey Canada, and Ottawa Sport Medicine Centre, Ottawa, Ontario, Canada; *International Rugby Board, Dublin, Ireland; #Emerson Hospital, Concord, MA

Athletic Trainer not on staff?

- Split Position
- · Athletic Trainers can be initially hired as:
 - · AT and equipment manager
 - · AT and Athletic Director or Assistant AD
 - · AT and strength coach
 - · AT and security
 - · AT and teacher or substitute teacher
 - · AT and health educator
- · Part-time employee
- · Outreach from a clinic setting

NATA Safe Sports School

- NATA Consensus Statement on Best Practices for Sports Medicine Management for Secondary Schools and Colleges
 - http://www.nata.org/sites/default/files/SportsMedicineManagement.pdf
- Safe Sports School "Recognizes secondary schools around the country that provide safe environments for student athletes, the initiative reinforces the importance of providing the best level of care, injury prevention and treatment." (http://www.nata.org/NR03292013)
 - http://athletictrainers.org/wp-content/uploads/2013/06/Safe-Sport-School-Award-Packet.pdf



What does this mean

- Concussion prevention, diagnosis and care are still hard problems to solve.
- · Review your Emergency Action Plan annually
- We must be proactive in our industries to gain a seat at the table regarding policy and laws that impact what we
- Remain educated and engage in conversations with medical professionals who are working first-hand with this issue.
- · When in doubt... SIT THEM OUT



Thank you

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 - · University of Tennessee, Martin



Resources

- Lystedt Law
 - http://apps.leg.wa.gov/documents/billdocs/2009-10/Pdf/Bill%20Reports/House/1824.E%20HBR%20APH%2009.pdf
- · Concussion Legislation by State
 - http://www.lawatlas.org/query?dataset=sc-reboot
- Sports Medicine Advisory Committees
 - Source: http://www.nfhs.org/sports-resource-content/member-state-associations-with-sports-medicine-sites-and-advisory-committees/
- NATA Consensus Statement
 - http://www.nata.org/sites/default/files/SportsMedicineManagement. pdf
 - http://athletictrainers.org/wp-content/uploads/2013/06/Safe-Sport-School-Award-Packet.pdf

Training Resources

- · What is a concussion
 - http://www.youtube.com/watch?v=Sno_0Jd8GuA
- · NFHS
 - http://www.nfhslearn.com/electiveDetail.aspx?courseID=38000
- · CDC
 - http://www.cdc.gov/concussion/index.html
- USA Football
 - http://usafootball.com/health-safety/concussion-awareness
- Heads Up
 - http://www.cdc.gov/headsup/



Concussion Assessment Tools

- NFL Sideline assessment tool
 - http://www.nflevolution.com/article/sideline-assessment-tool?ref=0ap1000000224868
- · ImPACT
 - http://www.impacttest.com/audience/?teams-1
- · The Shockbox Sensor
- https://www.theshockbox.com/
- Sport Concussion Assessment Tool-3rd Ed.
- http://bjsm.bmj.com/content/47/5/259.full.pdf
- Sports Concussion Institute

http://www.concussiontreatment.com/images/SCI_RTP_Illustration.pdf http://www.concussiontreatment.com/images/SCI_RTS_Illustration.pdf

