

Concussion & sport safety legislation: An analysis of existing laws and future regulatory trends

John Parsons, PhD, AT, ATC A.T. Still University

AT REGULATORY CONFERENCE STATE ATHLETIC TRAINER LEADERS AND STATE REGULATORY BOARDS AT REGULATORY CONFERENCE STATE ATHLETIC TRAINER LEADERS AND STATE REGULATORY BOARDS AT REGULATORY CONFERENCE STATE ATHLETIC TRAINER LEADERS AND STATE REGULATORY BOARDS AT REGULATORY CONFERENCE STATE ATHLETIC TRAINER LEADERS AND STATE REGULATORY BOARDS AT REGULA

BOARD OF CERTIFICATION FOR THE ATHLETIC TRAINER

Be Certain."

- Identify and discuss common components and trends in state sport-concussion legislation & policy
- Identify & discuss emerging sport safety legislative initiatives
- Identify and discuss emerging advocacy opportunities



2013 BOC Athletic Trainer Regulatory Conference

ORIGINS OF CONCUSSION LEGISLATION

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Lystedt Core Components

- 1. Education
- 2. Informed consent
- 3. Removal from play
- 4. Return to play





For Immediate Release Tuesday, December 7, 2010

Contact: Jeff Miller National Football League (202) 662-5593 Ellen Satlof National Athletic Trainers' Association (214) 637-6282 x159

NATIONAL FOOTBALL LEAGUE AND THE NATIONAL ATHLETIC TRAINERS' ASSOCIATION TEAM TO PASS STATE LAWS TO PROTECT YOUTH ATHLETES FROM THE RISKS OF CONCUSSIONS

1. Education for coaches, parents, athletes
2. Required removal from play
3. Clearance from licensed & trained healthcare professional

NFL Resources

NEWS

The Zackery Lystedt Law

August, 09 2012









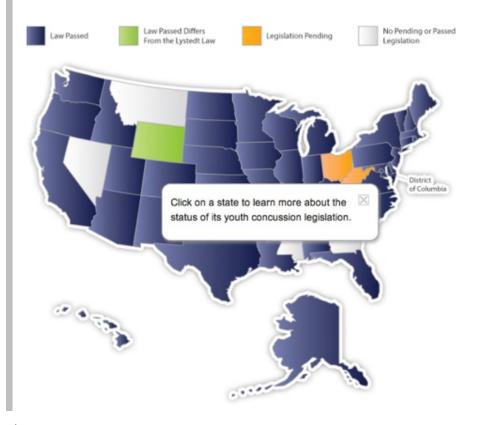


Lystedt Law Overview

The law is named for Zackery Lystedt who, in 2006, suffered a brain injury following his return to a middle school football game after sustaining a concussion. Zackery, his family and a broad range of medical, business and community partners lobbied the Washington state legislature for a law to protect young athletes in all sports from returning to play too soon. The Lystedt law 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.

NFL Commissioner Roger Goodell sent a letter to 44 governors of states urging them to pass a law similar to the Lystedt Law. On January 11, 2012, Commissioner Goodell and NCAA President Mark Emmert sent letters to 19 governors, charging them to protect youth athletes in their state through the passage of legislation. In the letters, Commissioner Goodell stated his belief that sports and political leaders can help raise awareness of concussions while ensuring proper and effective treatment.



Source: http://www.nflevolution.com/article/The-Zackery-Lystedt-Law:ref=270 Last accessed: July 3, 2013

Lawsuit



achary Holden, Nico	las Nightingale and To	om Schad co	ntributed.						et NFL
Search BROWSE • GAMES BY TEAM • GAMES BY POSITION								Start generation	
4336 players								4 1940s	
Геат	Name	Position	Team	Pookie	Detired	Games -	Age	86 _{1950s}	
437 (missing this	Jim L. Marshall	DL	Browns and Vikings	1960	1979	282	74	479 1960s	
field)	Trey Junkin	TE	Bills, Redskins, Raiders, Seahawks, Cardifials, and Giants	1983	2002	281	51	750 1970s	4
319 Lions	Bruce Smith, HoF	DL	Bills and Redskins	1985	2003	279	49	1013 1980s	
315 Chargers	Junior Seau	LB	Chargers, Dolphins, and Patriots	1990	2009	268	43, X	979 1990s	
311 Saints 308 Redskins	Lomas Brown	OL	Lions, Cardinals, Browns, Giants, and Bucs	1985	2002	263	49	588 2000s	1/2
307 Cardinals	Edward Murray	K	Lions, Bucs, Chiefs, Cowboys, Eagles, Redskins, and Vikings	1980	2000	250	55	437 Never played	
005 m 1 _*	Blair Bush	OL	Bengals, Seahawks, Packers, and Rams	1978	1994	246	55	Seasons played	
Position	Ray Donaldson	OL	Colts, Seahawks, and Cowboys	1980	1996	244	54	1362 0 - 3	
437 (missing this	Edward White	OL	Vikings and Chargers	1969	1985	241	65		
field)	Mick Tingelhoff	OL	Vikings	1962	1978	240	72	1168 3-6	
784 DB	Roland McDole	DL	Cardinals, Oilers, Bills, and Redskins	1961	1978	240	72	957 6-9	
621 LB	Lorenzo Neal	RB	Saints, Jets, Bucs, Titans, Bengals, Chargers, and Ravens	1993	2008	239	42	604 9-12 190 ₁₂₋₁₅	
607 OL 576 RB	Ethan Albright	OL	Dolphins, Bills, Redskins, and Chargers	1995	2010	236	41	47 15-18	1/1/5
566 DL	Andre Reed	WR	Bills and Redskins	1985	2000	234	48	8 18-21	Getty ima
446 WR	Lawyer Milloy	DB	Patriots, Bills, Falcons, and Seahawks	1996	2010	234	38		laiming they suf
273 TE	Christopher J. Doleman, HoF	DL	Vikings, Falcons, and 49ers	1985	1999	232	50	Games played	
103 QB	Byron Keith Traylor	DL	Broncos, Packers, Chiefs, Bears, Patriots, and Dolphins	1991	2007	229	42		tart of a monum
	James Jeffcoat Jr.	DL	Cowboys and Bills	1983	1997	227	51	0 - 300	would pood to
	Rickey Jackson, HoF	LB	Saints and 49ers	1981	1995	227	54		would need to t up. Getting the

judgment isn't gained, any hint of success could signal a blood-in-the-water moment for former players http://www.washingtontimes.com/foetlamblishittiess/assastraceassed-6/21/of-36 game of football.

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LEGISLATIVE ANALYSIS

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BOARD OF CERTIFICATION FOR THE ATHLETIC TRAINER

Purpose

- 1. To identify the <u>components</u> of state SCM legislation and the <u>frequency</u> with which they have been implemented
- 2. To characterize the <u>impact</u> of SCM legislation on ATs and AT practice as it relates to concussion management

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Be Certain.

Methodology

- Content analytic methods
 - 30 variable codebook
 - Krippendorff's $\alpha = 0.75$ *
 - LOA: State statute

- Variable clusters:
 - Education & training
 - 2. Patient management
 - Provider decisionmaking
 - 4. Liability

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BOARD OF CERTIFICATION FOR THE ATHLETIC TRAINER

Variables

1. Education

- Education requirement
- Personnel training requirement*
 - Training frequency
 - Personnel
 - Coach
 - School personnel
 - Referee
 - AT
 - Physician
- Informed consent requirement

2. Patient Management

- Removal from play requirement
- Same day return prohibition
- Academic accommodations / integration
- Graduated return
- Baseline testing requirement
- Post-concussive testing
- Cognitive rest

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Variables

3. Provider Decision-Making

- Screening / clearance distinction
- Written clearance requirement
- Physician-only clearance
- Generic HCP reference
- Provider-specific authorization:
 - AT
 - NP
 - PA
 - Psychologist/ Neuropsychologist
 - PT
 - Chiropractic
- Training in SRC requirement

4. Liability

- School liability protection
- School employee liability protection
- Volunteer protection

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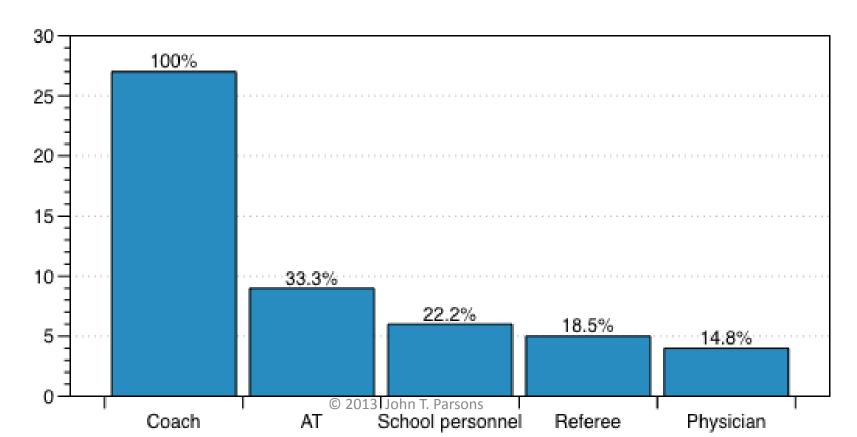
Be Certain.

Results: Education & Training

47/49 (95.9%) require **education** 40/49 (81.6%) require **informed consent** 27/49 (55.1%) require **personnel training***

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Be Certain. Training-Personnel (n=27)

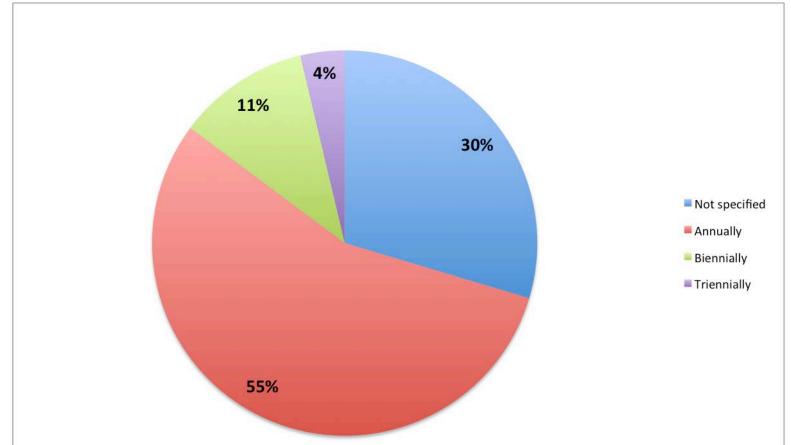


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Training Frequency (n=27)



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Results: Patient Management

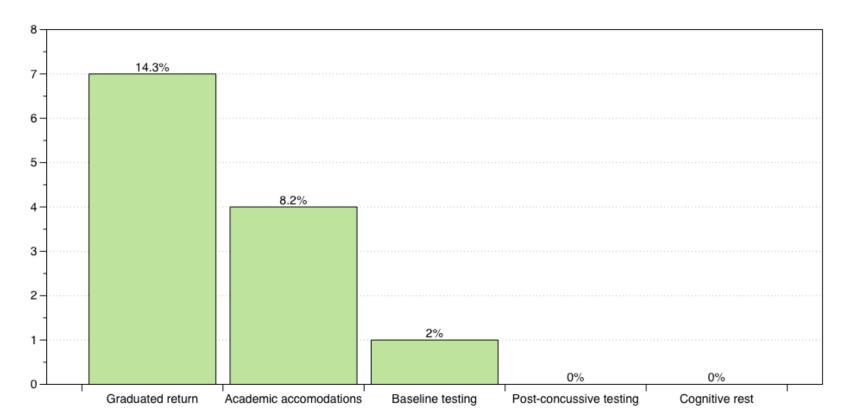
48/49 (98%) require **removal from play** 14/49 (28.6%) prohibit **same day return**

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Patient Management (n=49)



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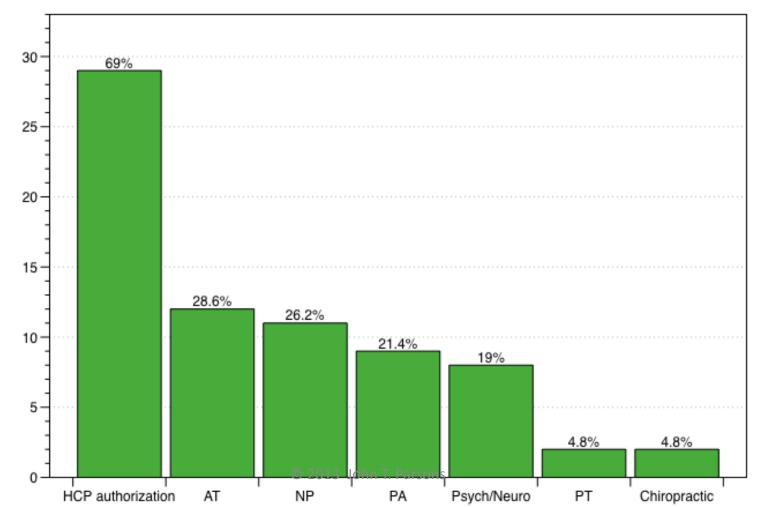
BOARD OF CERTIFICATION FOR THE ATHLETIC TRAINER

Results: Provider Decision-Making

47/49 (95.9%) require written clearance 31/49 (63.3%) require training in SCM 3/49 (6.1%) include screen/clearance differences 7/49 (14.3%) require physician-only clearance

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Results: Provider Authorization (n=42)



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BOARD OF CERTIFICATION FOR THE ATHLETIC TRAINER

Results: Liability

11/49 (22.4%) provide **school** liability protection 8/49 (16.3%) provide **school employee** liability protection

14/49 (28.5%) provide volunteer liability protection



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IMPLICATIONS



AT dichotomy

- 2nd to physicians in authorization
- 1/3 of states require recurring training of ATs

Provider authorization complex

• Overlooked:

- Testing (0%)
- Academic implications (8.2%)
- Prevention (Harvey, Am J Public Health, 2013)



- Lystedt (& NFL) influence is clear
- Enforcement provisions are vague
- Volatility
 - Additional policy groups
 - 9(18.3%) defer key decisions
- Entrenched principles for future sport safety legislation?

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Pennsylvania

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Article Tools

Peters cops open investigation of high school football program

Thursday, January 26, 2012 By Janice Crompton, Pittsburgh Post-Gazette

Police in Peters, Washington County, are investigating the Peters Township High School football program after receiving a complaint Wednesday from the county's Children and Youth Services Department, the police chief said today.

Police Chief Harry Fruecht said his department launched an investigation yesterday after receiving a complaint from CYS that "an alleged perpetrator is permitting children to play sports with concussions or concussion-like symptoms."

"I don't know if this will rise to our level or not," the chief said of possible criminal charges. "But we at least have to take a look at it."

Chief Fruecht said he contacted district Superintendent Nina Zetty yesterday and requested that she turn over documents related to a district investigation regarding accusations that high school head football coach Rich Piccinini was interfering with the job of athletic trainers as they treated injured players, including those with brain injuries.

"I've asked the school district for everything they've got so far," he said.



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FEDERAL LEGISLATION

Federal Legislation

H.R.2118

Latest Title: Youth Sports Concussion Act of 2013

Sponsor: Rep Bill Pascrell Jr. (NJ-9)

Introduced: 5/22/13

Cosponsor: 1

Latest Major Action: 5/24/2013 Referred to House

subcommittee.

Status: Referred to the Subcommittee on Commerce,

Manufacturing, and Trade.

S.1014

Latest Title: Youth Sports Concussion Act

Sponsor: Sen Tom Udall (NM)

Introduced: 5/22/13

Cosponsors: 1



Federal Legislation

H.RES.72

Latest Title: Supporting the goals and ideals of the

Secondary School Student Athletes' Bill of Rights.

Sponsor: Rep Jim Gerlach (PA-6)

Introduced: 2/15/13

Cosponsors: 18

Latest Major Action: 2/15/2013 Referred to House

subcommittee.

Status: Referred to the Subcommittee on Health.





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INTERSCHOLASTIC CONCUSSION POLICY

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State IAAs

- National Federation of State High School Associations (NFHS)
 - Suggested Guidelines, 2009 (amended 1/11)
- Autonomous policy
- Primary stakeholder in state legislation
- Scope of practice battles

Arizona Athletic Trainers' Association

Guidance Document

Compliance with SB 1521 and Arizona Interscholastic Association Concussion Policy

Created: August 2011

Introduction & Purpose

athletes.

The purpose of this document is to provide licensed athletic training members of the Arizona Athletic Trainers' Association (AzATA) with guidance related to compliance with SB 1521 and Arizona Interscholastic Association (AIA) concussion and head injury policies.

This document is provided as a member benefit, and the information contained herein is only applicable to the practice of athletic training by athletic trainers licensed in the State of Arizona. **Members must be aware** that this information is intended solely as a guideline for athletic trainers to better understand the requirements of the new state law and AIA policies related to concussion management. Members are encouraged to read the applicable statute and AIA policies for themselves, and to collaborate with school administrators, risk management, and legal counsel related to the development, implementation, and compliance with the required school district policies.

Background - SB 1521

SB 1521 was signed into law on by Governor Jan Brewer on April 18, 2011 and is currently in effect. The new provisions are embedded in ARS Sec. 15-341(A)(24)(b) as a component of an existing statute that pertains to the powers and responsibilities of school district governing boards. Specifically, Sec. 15-341(A) commences with the words "The governing board shall," and then lists matters which governing boards must address. Subsection (A)(24) begins with the directive to "Prescribe and enforce policies and procedures relating to the health and safety of all pupils participating in district sponsored practice sessions or games or other interscholastic activities..." Therefore, the concussion law applies directly to all public schools and public school districts in the State of Arizona. The use of the word "shall" in the statute means that school district governing boards are legally required to comply. The new statutory provision also requires compliance from any nonprofit group or organization that uses property or facilities owned or operated by a school district for athletic purposes. Consequently, the law also constitutes a mandate to any nonprofit club or league Othan is spurious seminoral facilities and is intended to extend protection to their

August, 2011







Barrow Neurological Institute and AT Still University are collaborating to offer free baseline testing, statewide concussion research, and statewide concussion consultation to all Arizona Interscholastic Association member schools. This statewide effort is called the **Barrow Concussion Network**.

Objective:

To provide concussion coverage for all Arizona Interscholastic Association high school athletes.

Who?

Barrow Neurological Institute, AT Still University, and the Arizona Interscholastic Association.

What?

The Barrow Concussion Network provides AIA member schools access to computerized assessment tools (ImPACT), statewide concussion research and free concussion consultation.

How?

Athletic trainers in the state of Arizona may request access to the Barrow Concussion Network by emailing: concussionregistry@dignityhealth.org. Please provide full name, school name, and contact phone number. You will receive an email invitation into the Barrow Concussion Network AND an email giving access to ImPACT (for AIA eligible schools).

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Texas

University Interscholastic League (6/11/13)

 limit full-contact football practice to 90 minutes per week during the regular and post season

HB 887

- Creates sport injury pilot program:
 - Physical, access, baseline testing, RTP, insurance, post-injury testing,

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Rules Changes

NFL

- Limited pre-season & in-season contact
- Kickoff @ 35 yd. line
- 3-man wedge prohibition
- "Defenseless player" protections (all)
- Lost helmet (ball carrier)
- Crown hits
- Ball carrier contact (outside tackle; 3 yrds)



Emerging Sport-safety Trends

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EXERTIONAL HEAT ILLNESS POLICIES

Preseason Heat-Acclimatization Guidelines

Area of Practice	Practices 1-5			
Modification	Days 1-2	Days 3-5	Practices 6-14	
# of Practices Permitted Per Day	1		2, only every other day	
Equipment	Helmets only	Helmets & Shoulder Pads	Full Equipment	
Maximum Duration of Single Practice Session	3 hours		3 hours (a total maximum of 5 hours on double session days)	
Permitted Walk Through Time	1 hour (but must be separated from practice for 3 continuous hours)			
Contact	No Contact	Contact only with blocking sleds/dummies	Full, 100% live contact drills	

NOTE: warm-up, stretching, cool-down, walk-through, conditioning, and weight-room activities are included as part of practice time

Source: http://ksi.uconn.edu/information/team-physicians/ Last accessed: 7/4/13



Arizona Interscholastic Association Sports Medicine Advisory Committee

Heat Acclimatization & Exertional Heat Illness Management Policy

It is the position of the AIA that prevention is the best way to avoid exertional heat stroke. Prevention includes educating athletes and coaches about:

- Recognition and management of exertional heat illnesses;
- 2. The risks associated with exercising in hot, humid environmental conditions;
- The need for gradual acclimatization over a 14 day period;
- 4. Guidelines for proper hydration;
- Implementing practice/competition modifications according to local temperature and relative humidity readings.

Source: http://www.aiaonline.org/story/uploads/AIA Heat Acclimatization Exertional Heat Illness Management Policy UPDATED by LT 1338329253.pdf Last Accessed: April 21, 2013

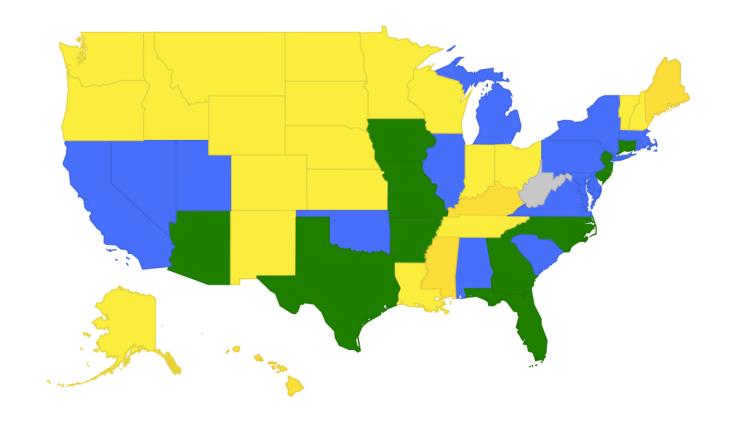
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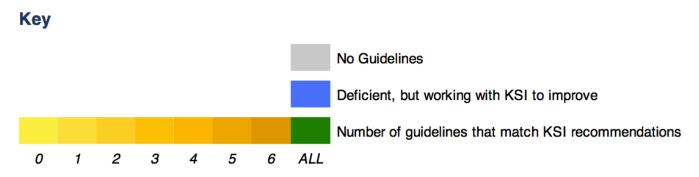
Recommendation	Meets Criteria	Does Not Meet Criteria
1. Days 1-5 are the first formal practices. No more than 1 practice occurs per day.	~	
2. Total practice time should not exceed 3 hours in any 1 day.	~	
3. 1-hour maximum walk-through is permitted on days 1-5, however there must be a 3 hour minimum between practice and walk-through (or vice versa).	~	
4. During days 1–2 of first formal practices, a helmet should be the only protective equipment permitted (if applicable). During days 3–5, only helmets and shoulder pads should be worn. Beginning on day 6, all protective equipment may be worn and full contact may begin.	~	
 Football only: on days 3–5, contact with blocking sleds and tackling dummies may be initiated. 		
B. Full-contact sports: 100% life contact drills should begin no earlier than day 6.		
5. Day 6–14, double-practice days must be followed by a single-practice day. On single-practice days, 1 walk-through is permitted, separated from the practice by at least 3 hours of continuous rest. When a double-practice day is followed by a rest day, another double practice day is permitted after the rest day.	~	
6. On a double-practice day, neither practice day should exceed 3 hours in duration, and no more than 5 total hours of practice in the day. Warm-up, stretching, cool-down, walk-through, conditioning and weight-room activities are included as part of the practice time. The 2 practices should be separated by at least 3 continuous hours in a cool environment.	~	
7. Because the risk of exertional heat illnesses during the preseason heat- acclimatization period is high, we strongly recommend that an athletic trainer be on site before, during and after all practices.	~	
MEETS KSI SEAL OF APPROVAL	~	

Source: http://ksi.uconn.edu/news-events/high-schoolsstate-policies/heat-acclimatization-state-policies/ Last accessed: 4/14/13

State/Entity	Date Guidelines Were Adopted	
NCAA	May, 2003	
New Jersey	May, 2011	
National Football League	July, 2011	
Гехаѕ	October, 2011	
North Carolina	February, 2012	
Georgia	March, 2012	
arkansas	June, 2012	
lorida	June, 2012	
rizona	June, 2012	
Connecticut	March, 2013	
owa	April, 2013	
Missouri	May, 2013	

Source: http://ksi.uconn.edu/news-events/high-sch@obstatenpolicies/heat-acclimatization-state-policies/ Last accessed: 7/2/13





Source: http://ksi.uconn.edu/news-events/high-school-state-policies/heat-acclimatization-state-policies/ Last accessed: 7/2/13



2013 BOC Athletic Trainer Regulatory Conference

SUDDEN DEATH

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BOARD OF CERTIFICATION FOR THE ATHLETIC TRAINER

Federal

Be Certain.

H.R.2135

Latest Title: Cardiac Arrest Survival Act of 2013

Sponsor: Rep. Pete Olson (TX-22)

Introduced: 5/23/13

Cosponsors: 6

Latest Major Action: 5/24/2013 Referred to House subcommittee.

Status: Referred to the Subcommittee on Health.

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Be Certain.

State: AED & Cardiac Care

Anyone Can Save A Life Program

AED Registries / Grant Programs

CPR Instruction in Schools

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Be Certain.

Auto-injectable Epinephrine Pen

Arizona Illinois Virginia



Advocacy & Policy Opportunities

2013 BOC Athletic Trainer Regulatory Conference



Advocacy

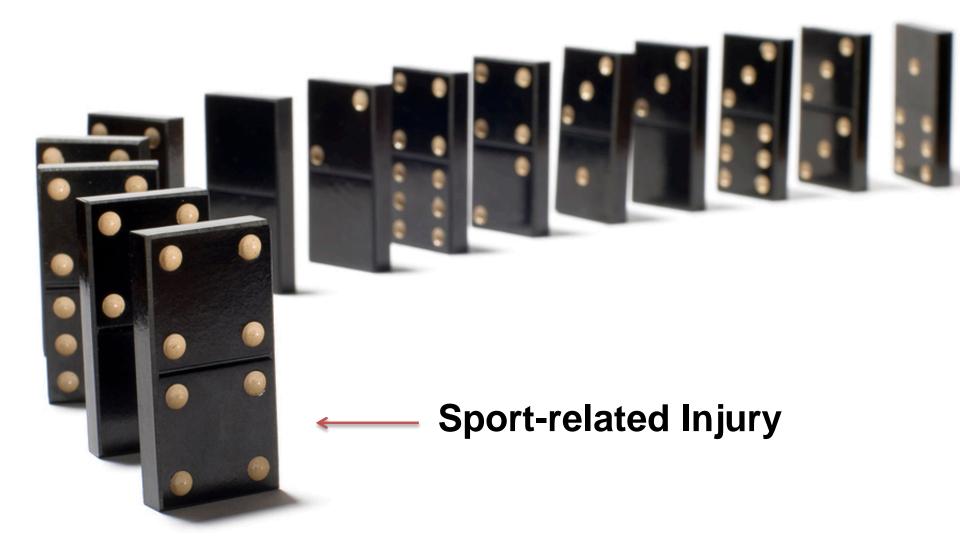
Bureaucratic

Legislative

Health

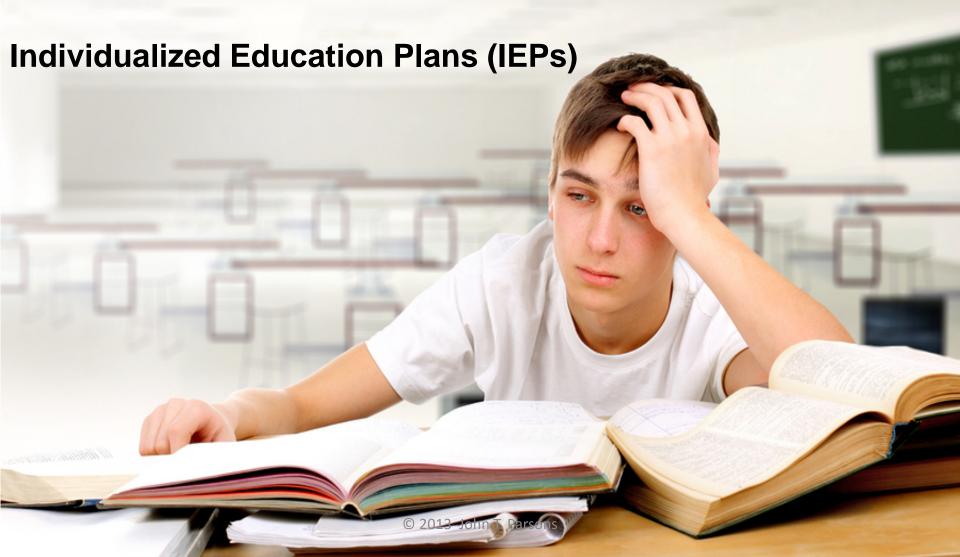






Educational Accommodation





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Be Certain.

Incidence

87% of ATs have had patient requiring academic accommodations

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Be Certain.

Academic Decline

79% of ATs have had patients with academic decline

Support Team Personnel

37. 5a. Who is involved in the academic support team for concussed student-athletes? [Check all that apply]

•			
#	Answer	Response	%
1	Athletic director	143	46%
2	Principal	143	46%
10	Other school administrator outside of athletic department	130	42%
12	Directing or team physician	145	47%
13	Student athlete's family (referring) physician	172	56%
3	School nurse	236	77%
4	Athletic trainer	273	89%
5	School guidance/academic counselor	265	86%
11	Mental health counselor	69	22%
6	Teacher	240	78%
7	Coach	118	38%
8	Parent	191	62%
9	Other	26	8%

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Be Certain."

504 Plan

44. 11. How familliar are you with a 504 plan?

#	Answer	Response	%
1	Not familiar at all	256	37%
2	Minimally familiar	151	22%
3	Moderately familiar	152	22%
4	Extremely famililar	132	19%
	Total	691	100%

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BOARD OF CERTIFICATION
FOR THE ATHLETIC TRAINER

Be Certain."

IEP

38. 6. How familiar are you with Individualized Education Plans?

#	Answer	Response	%
1	Not familiar at all	118	17%
2	Minimally familiar	198	28%
3	Moderately familiar	233	34%
4	Extremely familiar	146	21%
	Total	695	100%

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Healthy Communities

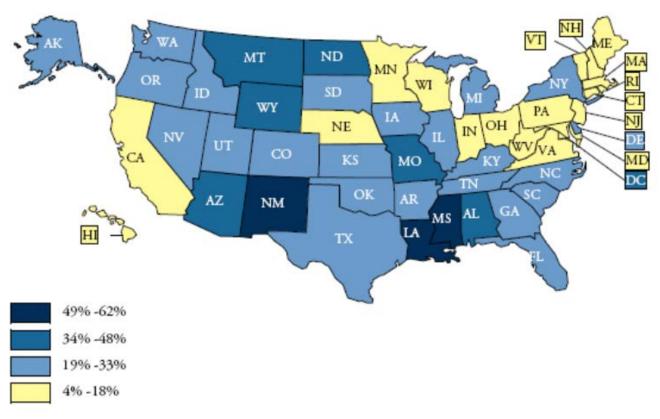
- School Nutrition
- Nutrition Education
- Body Mass Index Measurement for Students
- Body Mass Index Measurement for Students
- Diabetes Screening at School

- Insurance Coverage for Obesity Prevention
- School Wellness
- Physical Activity or Physical Education in School
- Taxes and Tax Credits
- Task Forces, Commissions, Studies and Other Special Programs

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Percentage of Population Living in a Designated Health Professional Shortage Area, 2011



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Source: Health Resources Service Administration, Data Warehouse, May 2011

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BOARD OF CERTIFICATION
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COMMUNITY PARAMEDICINE

EMT-CP (MN)

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Be Certain.

School-Based Health Centers













About the School-Based Health Alliance

The School-Based Health Alliance was founded in 1995 and is the national voice for school-based health centers (SBHCs). Built from the grassroots up by individuals from state and federal government agencies, national and regional foundations, child health and education organizations, and SBHCs, we are a true reflection of the field we support. The School-Based Health Alliance advocates for national policies, programs, and funding to expand and strengthen SBHCs, while also supporting the movement with training and technical assistance.

Our Vision

All children and adolescents are healthy and achieving at their fullest potential.



School-Based Health Alliance staff at the 2013 convention.

Our Mission

To improve the health status of children and youth by advancing and advocating for school-based health care.

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BOARD OF CERTIFICATION FOR THE ATHLETIC TRAINER

Summary

- State-based concussion legislation is successfully organized around 3 tenets:
 - Education
 - Removal from play upon suspicion
 - RTP w/ clearance
- Concussion has illuminated areas of policy and advocacy need by ATs
- Academic accommodations is a clear example

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BOARD OF CERTIFICATION FOR THE ATHLETIC TRAINER

Summary

- Trends toward community health and primary care must be leveraged
- Synergistic with secondary school setting push
- Non-AT centric advocacy is best



Thank You

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