

Virginia Board of Education Agenda Item



Agenda Item: G

Date: January 22, 2015

Title	Final Review of Revisions to <i>Guidelines for Policies on Concussions in Student-Athletes</i> , as Required by House Bills 410 and 1096, and Senate Bill 172 of the 2014 General Assembly		
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Purpose of Presentation:

Action required by state or federal law or regulation.

Previous Review or Action:

Previous review and action. Specify date and action taken below:

Date: November 20, 2014

Action: First Review of Proposed Guidelines for Policies on Concussions in Student-Athletes, House Bills 410 and 1096, and Senate Bill 172 Passed by the 2014 General Assembly

Action Requested:

Final review: Action requested at this meeting.

Alignment with Board of Education Goals: Please indicate (X) all that apply:

<input type="checkbox"/>	Goal 1: Accountability for Student Learning
<input type="checkbox"/>	Goal 2: Rigorous Standards to Promote College and Career Readiness
<input type="checkbox"/>	Goal 3: Expanded Opportunities to Learn
<input type="checkbox"/>	Goal 4: Nurturing Young Learners
<input type="checkbox"/>	Goal 5: Highly Qualified and Effective Educators
<input checked="" type="checkbox"/>	Goal 6: Sound Policies for Student Success
<input type="checkbox"/>	Goal 7: Safe and Secure Schools
<input type="checkbox"/>	Other Priority or Initiative. Specify:

Background Information and Statutory Authority:

Goal Six: These “return to learn” concussion management guidelines provide sound policies to ensure student success.

The 2014 Acts of Assembly (House Bills 410 and 1096 and Senate Bill 172) require the Virginia Board of Education (Board) to amend the *Guidelines for Policies on Concussions in Student-Athletes* to include policies and procedures for non-interscholastic youth sports programs utilizing public school property, and to address the effects of concussions on student-athletes’ academic performance.

The guidelines are codified in § 22.1-271.5, and § 22.1-271.6 of the *Code of Virginia*. The legislation states in part:

§ 22.1-271.5. Policies on concussions in student-athletes.

A. The Board of Education shall develop and distribute to each local school division guidelines on policies to inform and educate coaches, student-athletes, and their parents or guardians of the nature and risk of concussions, criteria for removal from and return to play, ~~and~~ risks of not reporting the injury and continuing to play, and the effects of concussions on student-athletes' academic performance.

... C. Each non-interscholastic youth sports program utilizing public school property shall either (i) establish policies and procedures regarding the identification and handling of suspected concussions in student-athletes, consistent with either the local school division's policies and procedures developed in compliance with this section or the Board's Guidelines for Policies on Concussions in Student-Athletes, or (ii) follow the local school division's policies and procedures as set forth in subsection B. In addition, local school divisions may provide the guidelines to organizations sponsoring athletic activity for student-athletes on school property. Local school divisions shall not be required to enforce compliance with such policies.

D. As used in this section, "non-interscholastic youth sports program" means a program organized for recreational athletic competition or recreational athletic instruction for youth.

§ 22.1-271.6. School division policies and procedures on concussions in student-athletes.

The Board of Education shall amend its guidelines for school division policies and procedures on concussions in student-athletes to include a "Return to Learn Protocol" with the following requirements:

1. School personnel shall be alert to cognitive and academic issues that may be experienced by a student-athlete who has suffered a concussion or other head injury, including (i) difficulty with concentration, organization, and long-term and short-term memory; (ii) sensitivity to bright lights and sounds; and (iii) short-term problems with speech and language, reasoning, planning, and problem solving; and

2. School personnel shall accommodate the gradual return to full participation in academic activities by a student-athlete who has suffered a concussion or other head injury as appropriate, based on the recommendation of the student-athlete's licensed health care provider as to the appropriate amount of time that such student-athlete needs to be away from the classroom.

Summary of Important Issues:

A wide variety of stakeholders and constituents assisted with the revision to the *Guidelines for Policies on Concussions in Student-Athletes*. As specified in enactment clause three of § 22.1-271.5, the Board of Education worked with the Virginia High School League, the Department of Health, the Virginia Athletic Trainers Association, representatives of the Children's Hospital of the King's Daughters and the Children's National Medical Center, the Brain Injury Association of Virginia, the American Academy of Pediatrics, the Virginia College of Emergency Physicians and other interested stakeholders in

conducting the research necessary for the development of attached proposed guidelines and definitions related to policies on concussion in student-athletes.

On November 20, 2014, the Board of Education received the proposed revised guidelines for policies on concussions in student-athletes for first review. The attached version includes edits, highlighted using the double underline, double strikethrough method, that reflect input from the Board's first review as well as public comments. The summary of proposed changes from first review includes:

- Provisions for instructional modifications for all students with a brain injury, whether an athlete or a non-athlete;
- Alignment of the definition for non-interscholastic youth sports programs with the language in the *Code*; and
- Minor technical edits.

Impact on Fiscal and Human Resources:

Costs will be absorbed within the Department of Education's existing resources. It is anticipated, however, that the adopted guidelines will impact school divisions administratively as they will be required to develop policies and procedures regarding gradual return to full participation in academic activities; provide training for staff on the effects of concussions on student-athlete's academic performance; and work with non-interscholastic youth sports programs utilizing public school property to establish policies regarding the identification and handling of suspected concussions in student-athletes consistent with either the local school division's policies and procedures or the Board's *Guidelines for Policies on Concussions in Student-Athletes*.

Timetable for Further Review/Action:

Upon approval by the Board, the revised *Guidelines for Policies on Concussions in Student-Athletes* will be disseminated via a Superintendent's Memorandum to school divisions.

Superintendent's Recommendation:

The Superintendent of Public Instruction recommends that the Board of Education approve the *Guidelines for Policies on Concussions in Student-Athletes*.

Rationale for Action:

The 2014 Acts of Assembly (House Bills 410 and 1096 and Senate Bill 172) require the Virginia Board of Education (Board) to amend the *Guidelines for Policies on Concussions in Student-Athletes* to include policies and procedures for non-interscholastic youth sports programs utilizing public school property, and to address the effects of concussions on student-athletes' academic performance. The *Guidelines for Policies on Concussions in Student-Athletes* have been revised to include these legislative changes.

**Virginia Board of Education
Proposed Guidelines For Policies on Concussions in
Student-Athletes**

**Senate Bill 652, the 2010 General Assembly
Code of Virginia § 22.1-271.5**

**House Bill 410 & Senate Bill 172, the 2014 General Assembly
Code of Virginia § 22.1-271.5**

And

**House Bill 1096, the 2014 General Assembly
Code of Virginia § 22.1-271.6**

Virginia Board of Education Proposed Guidelines For Policies on Concussions in Student-Athletes

Introduction

Pursuant to Senate Bill 652, ~~the (2010 General Assembly), and House Bills 410 and 1096, and Senate Bill 172 (2014),~~ the *Code of Virginia* was amended to include § 22.1-271.5 and § 22.1-271.6 directing the Board of Education to develop and distribute to school divisions by July 1, 2014~~5~~, guidelines for policies dealing with concussions in student-athletes, and requiring each school division to develop policies and procedures regarding the identification and handling of suspected concussions in student-athletes. The full text of the 2010 and 2014 legislation is available at the end of this document.

The goals of the Student-Athlete Protection Act (SB 652, SB 172, HB 410, and HB 1096) are to ensure that student-athletes who sustain concussions are properly diagnosed, given adequate time to heal, and are comprehensively supported until they are symptom free. According to the Consensus Statement on Concussion in Sport (3rd 4th International Conference on Concussion in Sport, Zurich, November 2008~~12~~), “the cornerstone of concussion management is physical and cognitive rest until symptoms resolve and then a graded program of exertion prior to medical clearance and return to play.”

The Brain Injury Association of Virginia notes that it is important for all education professionals to be aware of the issues surrounding brain injuries and how they can affect the student’s abilities in the educational setting. When a child is known or suspected to have sustained a concussion, either from a sports injury, motor vehicle crash, fall, or other cause, the Resulting impairments can be multifaceted~~ed~~dimensional and can may include cognitive, behavioral, and/or physical deficits. Impairments can be mild or severe, temporary or prolonged~~ermanent~~, resulting in partial or total loss of function. Because no two concussions are alike~~these deficits are so varied and unpredictable~~, it is difficult to determine~~forecast~~ the period of recovery. ~~for a student with a brain injury.~~

Concussions are a medical and educational issue and are considered to be among the most complex injuries in medicine to assess, diagnose, and manage. The concussed brain requires mental and physical rest to recover. Developing brains are highly variable and concurrent issues may affect cognitive recovery. Every concussion is different, and each student will have unique symptoms and recovery time. Facilitating/managing a student’s recovery from a concussive injury includes awareness of current symptoms, the pre-injury status of physical and cognitive function, and the student’s sensitivity to physical and cognitive exertion.

Concussion symptoms may have a significant impact on learning and academic achievement. A concussion may interfere with a student’s ability to focus, concentrate, memorize, and process information. This cognitive impairment may cause frustration, nervousness, anxiety, and/or irritability, and further affect mood or previously existing irritability or anxiety. The “return to learn” academic concussion management plan is divided into graduated phases to promote recovery considering all factors in this complex injury. Some students may need a short period

of rest with a gradual return to school, while others will be able to continue academic work with minimal instructional support.

The “return-to-play” protocols following a concussion are also a stepwise process in which the student-athletes will progress to the next level when physical exertion does not exacerbate symptoms or cause the re-emergence of previously resolved symptoms. If any post-concussion symptoms reoccur while in the stepwise process, the student-athlete would revert back to the previous level, rest, and try to progress again after a period of rest is completed. Most student-athletes who experience a concussion can recover completely as long as they do not “return-to-learn” or “return-to-play” prematurely. *Premature return to learn/play may delay and/or impede recovery.* Return-to-play should not occur before the student-athlete has managed to return to a full day of academic activities.

~~Most athletes who experience a concussion can recover completely as long as they do not return to play prematurely.~~The effects of repeated concussions can be cumulative, and after a concussion, there is a period in which the brain is particularly vulnerable to further injury. If a student-athlete sustains a second concussion during this period the risk of ~~permanent brain injury~~ prolonged symptoms increases significantly, and the consequences of a seemingly mild second concussion can be very severe and potentially catastrophic~~even result in death~~ (i.e., “second impact syndrome”).

Definitions(s)

~~A **concussion** is a traumatic brain injury that is characterized by an onset of impairment of cognitive and/or physical functioning, and is caused by a blow to the head, face or neck, or a blow to the body that causes a sudden jarring of the head (i.e., a helmet to the head, being knocked to the ground). A concussion can occur with or without a loss of consciousness, and proper management is essential to the immediate safety and long-term future of the injured individual. A concussion can be difficult to diagnose, and failing to recognize the signs and symptoms in a timely fashion can have dire consequences.~~ and is defined by the 4th International Conference on Concussion in Sports (2012) as a complex pathophysiological process affecting the brain and induced by biomechanical forces. Several common features that incorporate clinical, pathologic, and biomechanical injury constructs that may be utilized in defining the nature of a concussive head injury include:

- Concussion may be caused either by a direct blow to the head, face, neck, or elsewhere on the body with an "impulsive" force transmitted to the head.
- Concussion typically results in the rapid onset of short-lived impairment of neurologic function that resolves spontaneously. However, in some cases, symptoms and signs may evolve over a number of minutes, hours, or days.
- Concussion may result in neuropathological changes, but the acute clinical symptoms largely reflect a functional disturbance rather than a structural injury with no abnormality seen on standard structural neuroimaging studies.
- Concussion results in a graded set of clinical symptoms that may or may not involve loss of consciousness. Resolution of the clinical and cognitive symptoms typically follows a sequential course. It is important to note, however, that in some cases symptoms may be prolonged.

Appropriate licensed health care provider means a physician, physician assistant, osteopath physician, or athletic trainer licensed by the Virginia Board of Medicine; a neuropsychologist licensed by the Board of Psychology; or a nurse practitioner licensed by the Virginia State Board of Nursing.

Cognitive rest means limiting cognitive exertion and careful management of neurometabolic demands on the brain during recovery.

Return-to-learn means instructional modifications that support a controlled, progressive increase in cognitive activities while the student recovers from a brain injury (i.e., concussion) allowing the student to participate in classroom activities and learn without worsening symptoms and potentially delaying healing.

Return-to-play means participate in a nonmedically supervised practice or athletic competition.

Non-interscholastic youth sports program means a program organized for recreational athletic competition or recreational athletic instruction~~program organized for youth. that is not affiliated with a public or nonpublic school.~~

Virginia Board of Education Guidelines

A. Policies and Procedures

1. Each school division shall develop policies and procedures regarding the identification and handling of suspected concussions in student-athletes. Consideration should also be given to addressing the academic needs and gradual reintroduction of cognitive demands for all students who have been determined to have a concussion. The Brain Injury Association of Virginia offers resources on strategies for educators to consider when working with a student with a brain injury.
2. In order to participate in any extracurricular athletic activity, each student-athlete and the student-athlete's parent or guardian shall review, on an annual basis (every 12 months), information on concussions provided by the school division. After having reviewed materials describing the short- and long-term health and academic effects of concussions, each student-athlete and the student-athlete's parent or guardian shall sign a statement acknowledging receipt, review, and understanding of such information. The local school division will determine procedures for ensuring, annually, that statements are distributed to and collected from each student-athlete and his or her parent or guardian with appropriate signatures.
3. A student-athlete suspected by that student-athlete's coach, athletic trainer, or team physician of sustaining a concussion or brain injury in a practice or game shall be removed from the activity at that time. A student-athlete who has been removed from play, evaluated, and suspected to have a concussion or brain injury shall not return to play that same day nor until (i) evaluated by an appropriate licensed health care provider as ~~defined~~determined by the Board of Education and (ii) in receipt of written clearance to return to play from such licensed health care provider. The licensed health care provider evaluating student-athletes suspected of having a concussion or brain injury may be a volunteer.

4. Appropriate licensed health care providers or properly trained individuals evaluating student-athletes at the time of injury will utilize a standardized concussion sideline assessment instrument (e.g., SCAT II, SAC and BESS). Sideline Concussion Assessment Tool (SCAT-II, SCAT III, ChildSCAT3), the Standardized Assessment of Concussion (SAC), and the Balance Error Scoring System (BESS) are examples of sideline concussion assessment tools that test cognitive function and postural stability. A list of assessment tools is located in the Resources section of these guidelines.
5. ~~A~~ The school division's concussion policy team that may include, at a minimum, a school administrator, teacher, school counselor, school psychologist, school nurse, athletic administrator, appropriate licensed health care provider, coach, parent/guardian, and student shall refine and review local concussion management policies on an annual basis.

B. Protocol for return to learn

1. A student-athlete recovering from a brain injury shall gradually increase cognitive activities progressing through some or all of the following phases. Some students may need total rest with a gradual return to school, while others will be able to continue doing academic work with minimal instructional modifications. The decision to progress from one phase to another should reflect the absence of any relevant signs or symptoms, and should be based on the recommendation of the student's-athlete's appropriate licensed health care provider in collaboration with school staff, including teachers, school counselors, school administrators, psychologists, nurses, clinic aides, or others as determined by local school division concussion policy.
 - a. Home: Rest

Phase 1: Cognitive and physical rest may include:

 - minimal cognitive activities – limit reading, computer use, texting, television, or video games;
 - no homework;
 - no driving; and
 - minimal physical activity.

Phase 2: Light cognitive mental activity may include:

 - up to 30 minutes of sustained cognitive exertion;
 - no prolonged concentration;
 - no driving; and
 - limited physical activity.

Student will progress to part-time school attendance when able to tolerate a minimum of 30 minutes of sustained cognitive exertion without exacerbation of symptoms or causing the re-emergence of previously resolved symptoms.

- b. School: Part-time

Phase 3: Maximum instructional modifications including, but not limited to:

 - shortened days with built-in breaks;
 - modify environment (e.g., limiting time in hallway, identifying quiet and/or dark spaces);

- establish learning priorities;
- no standardized or classroom testing;
- extra time, extra assistance, and/or modified assignments;
- rest and recovery once out of school; and
- elimination or reduction of homework.

Student will progress to the moderate instructional modification phase when able to tolerate part-time return with moderate instructional modifications without exacerbation of symptoms or re-emergence of previously resolved symptoms.

Phase 4: Moderate instructional modifications including, but not limited to:

- set priorities for learning;
- limit homework;
- alternative grading strategies;
- built-in breaks;
- no standardized testing, modified and/or limited classroom testing; and
- reduction of extra time, assistance, and/or modification of assignments as needed.

Student will progress to the minimal instructional modification phase when able to tolerate full-time school attendance without exacerbation of existing symptoms or re-emergence of previously resolved symptoms.

c. School: Full-time

Phase 5: Minimal instructional modification - instructional strategies may include, but are not limited to:

- built-in breaks;
- no standardized testing, limited formative and summative testing;
- reduction of extra time, assistance, and modification of assignments; and
- continuation of instructional modification and supports in academically challenging subjects that require cognitive overexertion and stress.

Student will progress to nonmodified school participation when able to handle sustained cognitive exertion without exacerbation of symptoms or re-emergence of previously resolved symptoms.

Phase 6: Attends all classes; maintains full academic load/homework; requires no instructional modifications.

2. Progression through the above phases shall be governed by the presence or resolution of symptoms resulting from a concussion experienced by the student including, but are not limited to:

- difficulty with attention, concentration, organization, long-term and short-term memory, reasoning, planning, and problem solving;
- fatigue, drowsiness, difficulties handling a stimulating school environment (i.e., sensitivity to light and sound);
- inappropriate or impulsive behavior during class, greater irritability, less able to cope with stress, more emotional than usual; and
- physical symptoms (i.e., headache, nausea, dizziness).

3. Progression through gradually increasing cognitive demands should adhere to the following guidelines:
 - a. increase the amount of time in school;
 - b. increase the nature and amount of work, the length of time spent on the work, or the type or difficulty of work (change only one of these variables at a time);
 - c. if symptoms do not worsen, demands may continue to be gradually increased;
 - d. if symptoms do worsen, the activity should be discontinued for at least 20 minutes and the student allowed to rest:
 - 1) if the symptoms are relieved with rest, the student may reattempt the activity at or below the level that produced symptoms; and
 - 2) if the symptoms are not relieved with rest, the student should discontinue the current activity for the day and reattempt when symptoms have lessened or resolved (such as the next day).
4. If symptoms persist or fail to improve over time, additional in-school support may be required with consideration for further evaluation. If the student is three to four weeks post injury without significant evidence of improvement, a 504 plan should be considered.
5. A student-athlete shall progress to a stage where he or she no longer requires instructional modifications or other support before being cleared to return to full athletic participation (return-to-play).

The American Academy of Pediatrics (AAP) Return to Learn Following a Concussion Guidelines (October 2013), and the American Medical Society for Sports Medicine (AMSSM) Position Statement (2013), are available online to assist health care providers, students-athletes, their families, and school divisions, as needed.

BC. Protocol for return to play

1. No member of a school athletic team shall participate in any athletic event or practice the same day he/~~or~~ she is injured and:
 - a. exhibits signs, symptoms, or behaviors attributable to a concussion; or
 - b. has been diagnosed with a concussion.
2. No member of a school athletic team shall return to participate in an athletic event or training on the days after he/she experiences a concussion unless all of the following conditions have been met:
 - a. the student attends all classes, maintains full academic load/homework, and requires no instructional modifications;
 - ~~a~~b. the student no longer exhibits signs, symptoms, or behaviors consistent with a concussion, at rest or with exertion;
 - ~~b~~c. the student is asymptomatic during, or following periods of supervised exercise that is gradually intensifying; and
 - ~~c~~d. the student receives a written medical release from an appropriate licensed health care provider.

The Zurich Consensus Statement (November 2008¹²) return-to-play guidelines and the American Academy of Pediatrics (AAP) Concussion Guidelines (August 2010), are available online to assist healthcare providers, student-athletes, their families, and school divisions, as needed.

C.D. Helmet replacement and reconditioning policies and procedures

1. Helmets must be National Operating Committee on Standards for Athletic Equipment (NOCSAE) certified by the manufacturer at the time of purchase.
2. Reconditioned helmets must be NOCSAE recertified by the reconditioner.
3. Regular training on proper helmet fitting and maintenance is recommended for coaches of all sports wearing protective headgear.

D.E. Training required for personnel and volunteers

1. The concussion policy management team shall ensure training is current and consistent with best practice protocols. Each school division shall develop policies and procedures to ensure school staff, coaches, athletic trainers, team physicians, and volunteers receive current training annually on:
 - a. how to recognize the signs and symptoms of a concussion;
 - b. strategies to reduce the risk of concussions;
 - c. how to seek proper medical treatment for a person suspected of having a concussion; and
 - d. when the student-athlete may safely return to the event or training.
- ~~2. The concussion policy management team shall ensure training is current and consistent with best practice protocols.~~
- ~~3.2.~~ School divisions shall maintain a tracking system to documentation of compliance with the annual training requirement.
- ~~4.3.~~ Annual training on concussion management shall use a reputable program such as, but not limited to, the following:
 - a. The Centers for Disease Control's (CDC) tools for youth and high school sports coaches, parents, athletes, and health care professionals provide important information on preventing, recognizing, and responding to a concussion, and are available at http://www.cdc.gov/concussion/HeadsUp/online_training.html. These include *Heads Up to Schools: Know Your Concussion ABCs*; *Heads Up: Concussion in Youth Sports*; and *Heads Up: Concussion in High School Sports*.
 - b. The National Federation of State High School Associations' (NFHS) online coach education course – *Concussion in Sports – What You Need to Know*. This CDC-endorsed program provides a guide to understanding, recognizing and properly managing concussions in high school sports. It is available at www.nfhslearn.com.
 - c. The Oregon Center for Applied Science (ORCAS) ACTive® course, an online training and certification program that gives sports coaches the tools and information to protect players from sports concussions. Available at <http://activecoach.orcasinc.com/>, ACTive® is funded by the National Institutes of Health, developed by leading researchers, and validated in a clinical trial.

Community Involvement

~~Schools should make every effort to provide materials and training opportunities related to concussion management to organizations sponsoring athletic activity for student athletes on school property. School divisions are not required to enforce compliance with such policies. Non-interscholastic youth sports programs utilizing public school property shall establish policies and procedures regarding the identification and handling of suspected concussions in student-athletes, consistent with either the local school division's policies and procedures developed in compliance with this section, or the Board of Education's *Guidelines for Policies on Concussions in Student-Athletes*.~~

In addition, local school divisions may provide the guidelines to organizations sponsoring athletic activity for student-athletes on school property. Including the provision of the guidelines in the facility joint use agreements is strongly encouraged. Local school divisions shall not be required to enforce compliance with such policies.

Code of Virginia, as amended by the 2014 General Assembly

§ 22.1-271.5. *Policies on concussions in student-athletes.*

A. The Board of Education shall develop and distribute to each local school division guidelines on policies to inform and educate coaches, student-athletes, and their parents or guardians of the nature and risk of concussions, criteria for removal from and return to play, ~~and~~ risks of not reporting the injury and continuing to play, and the effects of concussions on student-athletes' academic performance.

B. Each local school division shall develop policies and procedures regarding the identification and handling of suspected concussions in student-athletes. Such policies shall require:

1. In order to participate in any extracurricular physical activity, each student-athlete and the student-athlete's parent or guardian shall review, on an annual basis, information on concussions provided by the local school division. After having reviewed materials describing the short- and long-term health effects of concussions, each student-athlete and the student-athlete's parent or guardian shall sign a statement acknowledging receipt of such information, in a manner approved by the Board of Education; and

2. A student-athlete suspected by that student-athlete's coach, athletic trainer, or team physician of sustaining a concussion or brain injury in a practice or game shall be removed from the activity at that time. A student-athlete who has been removed from play, evaluated, and suspected to have a concussion or brain injury shall not return to play that same day nor until (i) evaluated by an appropriate licensed health care provider as determined by the Board of Education and (ii) in receipt of written clearance to return to play from such licensed health care provider.

The licensed health care provider evaluating student-athletes suspected of having a concussion or brain injury may be a volunteer.

C. Each non-interscholastic youth sports program utilizing public school property shall either (i) establish policies and procedures regarding the identification and handling of suspected concussions in student-athletes, consistent with either the local school division's policies and procedures developed in compliance with this section or the Board's Guidelines for Policies on Concussions in Student-Athletes, or (ii) follow the local school division's policies and procedures as set forth in subsection B. In addition, local school divisions may provide the guidelines to organizations sponsoring athletic activity for student-athletes on school property. Local school divisions shall not be required to enforce compliance with such policies.

D. As used in this section, "non-interscholastic youth sports program" means a program organized for recreational athletic competition or recreational athletic instruction for youth.

3. That the Board of Education, in developing the policies pursuant to subsection A of § 22.1-271.5, shall work with the Virginia High School League, the Department of Health, the Virginia Athletic Trainers Association, representatives of the Children's Hospital of the King's Daughters and the Children's National Medical Center, the Brain Injury Association of Virginia, the American Academy of Pediatrics, the Virginia College of Emergency Physicians and other interested stakeholders.

4. That the policies of the Board of Education developed pursuant to subsection A of § 22.1-271.5 shall become effective on July 1, 2011.

2010, c. 483; 2014, cc. 746, 760.

§ 22.1-271.6. School division policies and procedures on concussions in student-athletes. The Board of Education shall amend its guidelines for school division policies and procedures on concussions in student-athletes to include a "Return to Learn Protocol" with the following requirements:

1. School personnel shall be alert to cognitive and academic issues that may be experienced by a student-athlete who has suffered a concussion or other head injury, including (i) difficulty with concentration, organization, and long-term and short-term memory; (ii) sensitivity to bright lights and sounds; and (iii) short-term problems with speech and language, reasoning, planning, and problem solving; and

2. School personnel shall accommodate the gradual return to full participation in academic activities by a student-athlete who has suffered a concussion or other head injury as appropriate, based on the recommendation of the student-athlete's licensed health care provider as to the appropriate amount of time that such student-athlete needs to be away from the classroom.

2014, c. 349.

Resources

A. Organizations and agencies that provide resources related to concussions

1. American Academy of Pediatrics, <http://www.aap.org>
2. American Medical Society for Sports Medicine, <http://www.amssm.org/>
3. Brain Injury Association of Virginia, <http://www.biav.net>
4. Centers for Disease Control and Prevention, <http://www.cdc.gov/>
5. Children's Hospital of the King's Daughters, <http://www.chkd.org>
6. Children's National Medical Center, <http://www.childrensnational.org>
7. Consensus Statement on Concussion in Sport (4th International Conference on Concussion in Sport, Zurich, November 2008¹²),
<http://www.sportconcussions.com/html/Zurich%20Statement.pdf>
<http://www.ncbi.nlm.nih.gov/pubmed/23479479>
8. National Academy of Neuropsychology, <http://www.nanonline.org>
9. **Virginia Athletic Trainers' Association**, <http://www.vata.us>
10. Virginia College of Emergency Physicians, <https://www.acep.org>
11. Virginia Department of Health, <http://www.vdh.state.va.us>
12. Virginia High School League, <http://www.vhsl.org>
14. Virginia Recreation and Park Society, www.vrps.com

B. Concussion assessment tools

1. Sports Concussion Assessment Tool (SCAT), Concussion in Sport Group,
http://www.amssm.org/MemberFiles/SCAT_v13_Side_2.doc
<http://bjsm.bmj.com/content/47/5/259.full.pdf>,
<http://bjsm.bmj.com/content/47/5/263.full.pdf>
2. ~~The Sideline Assessment for Concussions, Brain Injury Association of America,~~
http://www.knowconcussion.org/pdfs/sideline_assessment.pdf and
<http://www.knowconcussion.org/pdfs/bess.pdf>
- 3 Sports-Related Concussions in Children and Adolescents, Pediatrics,
<http://pediatrics.aappublications.org/cgi/content/abstract/peds.2010-2005v1?rss=1>

C. Educational strategies for working with students who have concussions

1. Brain Injury and the Schools: A Guide for Educators, Brain Injury Association of Virginia,
<http://www.biav.net>
2. "Importance of 'Return-to-Learn' in Pediatric and Adolescent Concussion," Master, Gioia et.al.; Pediatric Annals, September 2012.
3. "Returning to Learning Following a Concussion," Halstead, McAvoy, et.al.; Pediatrics, November 2013.
4. ACHIEVES PROACTIVE Concussion Recovery Toolkit,
<http://concussiontoolkit.gmu.edu>.
5. BrainSTEPS, <https://www.brainsteps.net>.
6. Virginia Department of Education: Traumatic Brain Injury -
http://doe.virginia.gov/special_ed/disabilities/traumatic_brain_injury/index.shtml