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| 2 | Alexandria City Public Schools |
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| 7 | Guidelines for Concussion Management in |
| 8 | Alexandria City Public Schools |
| 9 | February 2017 |
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| 28 | Mark Eisenhour, Director of Student Activities |
|----------------------|---|
| 29 | Marjorie Franké, MEd, LAT, ATC, Head Athletic Trainer |
| 30 | Katie Frawley, Head Varsity Softball Coach |
| 31 32 | Michael Humphreys, Instructional Specialist for Health/Physical Education and Family Life Education |
| 33 | Paul Moniz, Parent of Student |
| 34 | William Moniz, Student |
| 35 | Barbara Nowak, DNP, RN, FNP-C, Health Services Coordinator |
| 36 | Athena Perez, MEd, BSN, RN, School Nurse |
| 37 | Vivek Sinha, MD, Collaborating Physician |
| 38 | Stephanie Smith, MA, NCC, Director of Secondary School Counseling |
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87 Foreword

The purpose of this document is to provide Alexandria City Public Schools (ACPS) personnel, parents/guardians, students, and private health care providers with information on concussion management in the school setting. This guideline document will assist in identifying a student with a potential concussion and ensure that a student who has been diagnosed with a concussion receives the appropriate care and attention at school to aid in his/her recovery.

ACPS promotes an environment where reporting signs and symptoms of a concussion are 93 required and important. Students who have a suspected concussion should be seen by their 94 licensed health care provider for diagnosis who then may choose to refer the student to a 95 specialist as needed. If the student does not have a primary medical provider, ACPS school 96 nurses or athletic trainers may assist families in finding appropriate medical evaluation by 97 98 providing information on local clinics and/or providers along with information on public health insurance. Any evaluation and clearance authorizing a student to return to athletic or regular 99 activities must be performed, written, and signed by a licensed health care provider. Such written 100 clearance must be sent to the school for review by the school nurse and is to be kept in the 101 student's cumulative health record. 102

103 **Definitions**

104 **Concussion** is a traumatic brain injury that is characterized by an onset of impairment of cognitive and/or physical functioning. It is caused by a blow to the head, face or neck, or a blow 105 to the body that causes a sudden jarring of the head (I.e. a helmet to the head, being knocked to 106 the ground). A concussion can occur with or without a loss of consciousness and proper 107 management is essential to the immediate safety and long-term future of the injured individual. 108 A concussion can be difficult to diagnose and failing to recognize the signs and symptoms in a 109 timely fashion can have dire consequences. A concussion is defined by the 4th International 110 Conference on Concussion in Sports (2012) as a complex pathophysiological process affecting 111 the brain and induced by biomechanical forces. Several common features that incorporate 112 clinical, pathologic, and biomechanical injury constructs that may be utilized in defining the 113 nature of a concussive head injury include: 114

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- 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.
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- Concussion typically results in the rapid onset of short-lived impairment of
- 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.
- 125 126 127

- 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 (M.D. or D.O.), physician assistant, 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.
- 137

- 138 Cognitive rest means limiting cognitive exertion and careful management of neurometabolic139 demands on the brain during recovery.
- 140
- 141 Return-to-learn means instructional modifications that support a controlled, progressive 142 increase in cognitive activities while the student recovers from a brain injury (i.e., concussion) 143 allowing the student to participate in classroom activities and learn without worsening symptoms
- 144 and potentially delaying healing.
- 145

- 146 **Return-to-play** means participate in a non-medically supervised practice or athletic competition.
- 148 **Non-interscholastic youth sports program** means a program organized for recreational athletic 149 competition or recreational athletic instruction program organized for youth, which is not 150 affiliated with a public or nonpublic school.
- 151

152 **Concussion Overview**

Concussions are brain injuries that occur as the result of a fall, motor vehicle accident, or any 153 other activity that results in an impact to the head or body. The Brain Injury Association of 154 Virginia reports that, "Concussions are caused by a bump, blow, or jolt to the head. A concussion 155 can also occur from a blow to the body that causes the head to move rapidly back and forth or 156 twisting rapidly inside the skull. They can range from mild to severe and can disrupt the way the 157 158 brain normally works. Even a "ding" or a bump on the head can be serious and result in a longterm or lifelong disability" (http://www.biav.net/sports-concussion.htm). According to the 159 Centers for Disease Control and Prevention (CDC), Morbidity and Mortality Weekly Report 160 (MMWR) [October 7, 2011/60(39); 1337-1342]: An estimated 2.6 million people under the age 161 of nineteen sustain a head injury annually. 162

The symptoms of a concussion result from a temporary change in the brain's function. In most 163 cases, the symptoms of a concussion generally resolve over a short period of time. However, in 164 some cases, symptoms can last for weeks or longer. In a small number of cases, or in cases of 165 re-injury during the recovery phase, permanent brain injury is possible. Children and 166 adolescents are more susceptible to concussions and take longer than adults to fully recover. 167 Therefore, it is imperative that any student who is suspected of having sustained a concussion be 168 immediately removed from athletic activity (e.g., recess, PE class, sports) and remain out of 169 athletic activities until evaluated and cleared to return to athletic/regular activity by a licensed 170 health care provider. 171

172

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173 Concussion Protocol

- ACPS commits to the following statements as part of the Division concussion protocol:
- ACPS will implement strategies that reduce the risk of head injuries in the school setting and during school sponsored events.
- 177
 2. ACPS will implement a procedure and treatment plan developed to be utilized by Division staff who may respond to a person with a head injury.
- ACPS will ensure that certified athletic trainers and coaches have completed a concussion training course. School nurses, physical education teachers, and other appropriate staff will have attended a concussion training course. Additionally, the protocol addresses the education needs of students and parents/guardians, as needed.
- 4. ACPS will establish a procedure for a coordinated communication plan among appropriate staff to ensure that private provider orders for post-concussion management are implemented and followed.
- 186 5. ACPS will develop and implement a procedure for annual review of the concussion management policy.

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189 **Prevention and Safety**

190 Protecting students from head injuries is one of the most important ways to prevent a concussion. Although the risk of a concussion may always be present with certain types of activities, in order 191 to minimize the risk, schools should ensure that (where appropriate) education, proper 192 equipment, and supervision to minimize the risk is provided to ACPS staff, students, and 193 parents/guardians. Instruction should include signs and symptoms of concussions, how such 194 injuries occur, how to respond when a concussion occurs, and possible long term effects 195 196 resulting from such injury. It is imperative that students know the symptoms of a concussion and inform appropriate personnel, even if they believe they have sustained the mildest of 197 concussions. This prevention and safety information should be reviewed periodically with 198 199 students throughout each season. Emphasis must be placed on both acquiring a medical 200 evaluation, should such an injury occur, to prevent persisting symptoms of a concussion and following the guidelines for return to school and activities to ensure proper recovery. Providing 201 202 supporting written material is advisable. It is extremely important that all students be made aware of the importance of reporting any symptoms of a concussion to their parent/guardian 203 and/or appropriate school staff. ACPS staff members must follow Division protocols and 204 205 procedures for any student reporting signs and symptoms of injury or illness.

Activities that present a higher than average risk for concussions include, but are not limited to: interscholastic athletics, extramural activities, physical education classes, marching band, and recess. ACPS will evaluate the physical design of facilities and their emergency safety plans to identify potential risks for falls or other injuries regularly and on an as needed basis. Recess should include adult supervision with all playground equipment in good repair and play surfaces composed of approved child safety materials.

Physical education programs should include plans that emphasize safety practices. Lessons on the need for safety equipment should be taught along with the correct use of such equipment. In addition, rules of play should be reviewed prior to taking part in the physical activity and enforced throughout the duration thereof.

The Director of Sports Activities (DSA) will ensure that all interscholastic athletic competition 216 rules are followed, appropriate safety equipment is used, and rules of sportsmanship are 217 enforced. The DSA should instruct and encourage PE teachers, coaches, and students from 218 initiating contact to another player with their head or to the head of another player. Players 219 220 should be proactively instructed on sport-specific safe body alignment and encouraged to be aware of what is going on around them. These practices will reduce the number of unexpected 221 body hits that may result in a concussion and/or neck injury. In addition, proper instruction 222 223 should include the rules of the sport, defining unsportsmanlike conduct, and enforcing penalties for deliberate violations. 224

225 Concussion Identification

Any student who is observed to, or is suspected of, suffering a significant blow to the head, has 226 227 fallen from any height, or has collided hard with another person or object, may have sustained a concussion. Symptoms of a concussion may appear immediately, may become evident in a few 228 hours, or may evolve and worsen over a few days. Concussions may occur at places other than 229 school. Therefore, any ACPS staff member who observes a student displaying signs and/or 230 231 symptoms of a concussion, or learns of a head injury from the student, should have the student accompanied to the school nurse or athletic trainer. If the school nurse is unavailable, the school 232 233 should contact the parent/guardian. Any student suspected of having a concussion either based on the disclosure of a head injury, observed or reported symptoms, or by sustaining a significant 234 blow to the head or body must be removed from athletic activity and/or physical activities (e.g., 235 PE class, recess), and observed until an evaluation can be completed by a licensed health care 236 provider. Symptoms of a concussion include, but are not necessarily limited to: 237

- Amnesia (e.g., decreased or absent memory of events prior to or immediately after the injury, or difficulty retaining new information)
 Confusion or appearing dazed
- 241 \Box Headache or head pressure
- 242 \Box Loss of consciousness
- 244 \Box Double or blurry vision
- 245 \Box Sensitivity to light and/or sound
- 246 □ Nausea, vomiting, and/or loss of appetite
- 247 \Box Irritability, sadness or other changes in personality
- 248 \Box Feeling sluggish, foggy, groggy, or lightheaded
- 249 \Box Concentration or focusing problems
- 250 \Box Slowed reaction times, drowsiness
- 252
- 253 Students who develop any of the following signs, or if the above listed symptoms worsen, must 254 be seen and evaluated immediately at the nearest hospital emergency room:
- 255
- 256 \Box Headaches that worsen
- 258 \Box Looks drowsy and/or cannot be awakened
- 259 \Box Repeated vomiting
- $260 \qquad \Box \text{ Slurred speech}$
- 261 \Box Unable to recognize people or places
- 262 \Box Weakness or numbing in arms or legs, facial drooping
- $263 \qquad \Box \text{ Unsteady gait}$
- 264 Dilated or pinpoint pupils, or change in pupil size of one eye
- 265 🗌 Significant irritability
- 266 \Box Any loss of consciousness
- 267 \Box Suspicion of skull fracture: blood draining from ear or clear fluid from nose

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Neurocognitive computerized tests and sideline assessments may assist Division staff in 269 determining the severity of a student's symptoms and guiding treatment plans (e.g., the need for 270 271 academic accommodations). They are not a replacement for a medical evaluation to diagnose a concussion. All students with a suspected concussion are to be seen as soon as 272 possible by a licensed health care provider. Results from assessment tools or tests completed at 273 school should be given to medical providers to aid in the diagnosis and treatment of students. 274 Students removed from athletic activities at school for a suspected concussion must be evaluated 275 by, and receive written and signed authorization from, a licensed health care provider in order to 276 return to athletic activities in school. 277

278

279 Diagnosis

It cannot be emphasized enough that any student suspected of having a concussion – either based 280 281 on the disclosure of a head injury, observed or reported symptoms, or by sustaining a significant blow to the head or body – **must** be removed from athletic activity and/or physical activities 282 (e.g., PE class, recess), and observed until an evaluation can be completed by a licensed health 283 284 care provider. A student diagnosed with a concussion is not to be returned to athletic activities 285 until at least 24 hours have passed without symptoms and the student has been assessed and cleared by a licensed health care provider to begin a graduated return to activities. Students 286 287 removed from athletic activities at school for a suspected concussion must be evaluated by, and receive written and signed authorization from, a licensed health care provider in order to return 288 289 to *athletic activities* in school.

- Evaluation by a licensed health care provider of a student suspected of having a concussion
 should include a thorough health history and a detailed account of the injury. The Centers for
 Disease Control and Prevention (CDC) recommends that physicians, nurse practitioners, and
 physician assistants use the Acute Concussion Evaluation Form (ACE) to conduct an initial
- evaluation (<u>https://www.cdc.gov/headsup/pdfs/providers/ace-a.pdf</u>) and the Acute Concussion
 Evaluation Care Plan
- 296 (https://www.cdc.gov/headsup/pdfs/providers/ace_care_plan_school_version_a.pdf) to
- 297 communicate plan of care with schools.
- 298

299 The CDC recommends evaluation of three areas:

- 300
- $301 \qquad \Box \text{ Characteristics of the injury}$
- $302 \qquad \Box \text{ Type and severity of cognitive and physical symptoms }$
- $303 \qquad \Box \text{ Risk factors that may prolong recovery}$

305 Injury Characteristics

306

- The student and/or the parent/guardian or school staff member who observed the injury should
 be asked about the following as part of an initial evaluation:
- 310 \Box Description of the injury

- 311 \Box Cause of the injury
- 312 \Box Student's memory before and after the injury
- 313 D Physical pains and/or soreness directly after injury
- 314 \Box If any loss of consciousness occurred
- 315

316 Symptoms

- 317
- 318 Students should be assessed for symptoms of a concussion including, but not limited to, those
- 319 listed in the Identification Section on page 9.

320 Risk Factors to Recovery

321 According to the CDC's Heads Up, Facts for Physicians About Mild Traumatic Brain Injury

- 322 *(MTBI)*, students with these conditions are at a higher risk for prolonged recovery from a concussion:

- \square History of depression, anxiety, or mood disorders
- 328 Students whose symptoms worsen or generally show no reduction after 7-14 days, or sooner 329 depending on symptom severity, should be considered for referral to a neuropsychologist,

330 neurologist, physiatrist, or other medical specialist in traumatic brain injury.

- 331 (Source:
- 332 <u>http://www.concussiontreatment.com/images/CDC_Facts_for_Physicians_booklet.pdf</u>)

333 Post-Concussion Management

334

Students who have been diagnosed with a concussion require both physical and cognitive 335 rest. Delay in instituting licensed health care provider orders for such rest may prolong recovery 336 from a concussion. The licensed health care provider's orders for avoidance of cognitive and 337 physical activity and graduated return to activity should be followed and monitored both at home 338 and at school. School staff should consult with the school nurse or athletic trainer if further 339 340 discussion and/or clarification are needed regarding a private medical provider's orders or in the absence of private medical provider orders. Additionally, children and adolescents are at 341 increased risk of protracted recovery and more severe injuries, even death, if they sustain another 342 concussion before fully recovering from the first concussion. Therefore, it is imperative that a 343 student is fully recovered before resuming activities that may result in another concussion. Best 344 345 practice warrants that, whenever there is a question of safety, a medical professional should err on the side of caution and hold the student out for a game, the remainder of the season, or even a 346 full year, if warranted. 347

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| 352 | Cognitive Rest – Protocol for Return to Learn |
|---|--|
| 353 354 355 356 357 358 359 | 1. A student recovering from a brain injury shall gradually increase cognitive activities progressing through <i>some or all</i> 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 appropriate licensed health care provider in collaboration with school staff, including teachers, school counselors, school |
| 360 | administrators, psychologists, and nurses as determined by the ACPS concussion policy. |
| 361 | |
| 362 363 | A. Home: Rest |
| 364 | Phase 1: Cognitive and physical rest may include: |
| 365 366 | minimal cognitive activities – limit reading, computer use, texting, television, or video games; |
| 367 | no homework; |
| 368 | \circ no driving; and |
| 369 | minimal physical activity. |
| 370 | Dhass 2. Light as guiting monthly stinity may include |
| 371 | Phase 2: Light cognitive mental activity may include: up to 30 minutes of sustained cognitive exertion; |
| 372 373 | |
| 373 | no prolonged concentration; no driving; and |
| 375 | limited physical activity. |
| 376 | |
| 377 | Student will progress to part-time school attendance when able to tolerate a minimum of |
| 378 | 30 minutes of sustained cognitive exertion without exacerbation of symptoms or causing |
| 379 | the re-emergence of previously resolved symptoms. |
| 380 | |
| 381 | B. School: Part-time |
| 382 | |
| 383 | Phase 3: Maximum instructional modifications including, but not limited to: |
| 384 | • shortened days with built-in breaks; |
| 385 | • modify environment (e.g., limiting time in hallway, identifying quiet and/or |
| 386 | dark spaces); |
| 387 | establish learning priorities; |
| 388 | • no standardized or classroom testing; |
| 389 | • extra time, extra assistance, and/or modified assignments; |
| 390 201 | rest and recovery once out of school; and elimination or reduction of homework. |
| 391 392 | • elimination or reduction of homework. |
| 392 393 | |
| 555 | |

| 394 | | Student will progress to the moderate instructional modification phase when able to |
|------------|----|--|
| 395 | | tolerate part-time return with moderate instructional modifications without exacerbation |
| 396 | | of symptoms or re-emergence of previously resolved symptoms. |
| 397 | | |
| 398 | | Phase 4: Moderate instructional modifications including, but not limited to: |
| 399 | | • set priorities for learning; |
| 400 | | o limit homework; |
| 401 | | alternative grading strategies; |
| 402 | | built-in breaks; |
| 403 | | no standardized testing, modified and/or limited classroom testing; and |
| 404 | | reduction of extra time, assistance, and/or modification of assignments as |
| 405 | | needed. |
| 405 | | needed. |
| 400 | | Student will progress to the minimal instructional modification phase when able to |
| 407 | | tolerate full-time school attendance without exacerbation of existing symptoms or re- |
| 408 409 | | emergence of previously resolved symptoms. |
| | | emergence of previously resolved symptoms. |
| 410 411 | | C. School: Full-time |
| | | |
| 412 | | Dhase 5. Minimal instructional modification instructional strategies may |
| 413 | | Phase 5: Minimal instructional modification - instructional strategies may |
| 414 | | include, but are not limited to: |
| 415 | | • built-in breaks; |
| 416 | | • no standardized testing, limited formative and summative testing; |
| 417 | | • reduction of extra time, assistance, <i>and</i> modification of assignments; and |
| 418 | | • continuation of instructional modification and supports in academically |
| 419 | | challenging subjects that require cognitive overexertion and stress. |
| 420 | | |
| 421 | | Student will progress to non-modified school participation when able to handle sustained |
| 422 | | cognitive exertion without exacerbation of symptoms or re-emergence of previously |
| 423 | | resolved symptoms. |
| 424 | | |
| 425 | | Phase 6: Attends all classes; maintains full academic load/homework; requires no |
| 426 | | instructional modifications. |
| 427 | | |
| 428 | 2. | Progression through the above phases shall be governed by the presence or resolution of |
| 429 | | symptoms resulting from a concussion experienced by the student including, but not |
| 430 | | limited to: |
| 431 | | |
| 432 | | a. difficulty with attention, concentration, organization, long-term and short-term |
| 433 | | memory, reasoning, planning, and problem solving; |
| 434 | | |
| 435 | | b. fatigue, drowsiness, difficulties handling a stimulating school environment (i.e., |
| 436 | | sensitivity to light and sound); |
| 437 | | |
| 438 | | c. inappropriate or impulsive behavior during class, greater irritability, less able to |
| | | ALEXANDRIA CITY PUBLIC SCHOOLS 12 |

| 439 | | cope with stress, more emotional than usual; and |
|------------|----|---|
| 440 441 | | d. physical symptoms (i.e., headache, nausea, dizziness). |
| 442 | _ | |
| 443 444 | 3. | Progression through gradually increasing cognitive demands should adhere to the following guidalings: |
| 444 445 | | following guidelines: |
| 446 | | a. increase the amount of time in school; |
| 447 | | |
| 448 449 | | 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); |
| 449 450 | | the type of difficulty of work (change only one of these variables at a time), |
| 451 | | c. if symptoms do not worsen, demands may continue to be gradually increased; |
| 452 | | |
| 453 | | d. if symptoms do worsen, the activity should be discontinued for at least 20 minutes and the student allowed to rest: |
| 454 455 | | and the student anowed to rest: |
| 456 | | 1) if the symptoms are relieved with rest, the student may reattempt the |
| 457 | | activity at or below the level that produced symptoms; and |
| 458 | | |
| 459 460 | | 2) if the symptoms are not relieved with rest, the student should discontinue the current activity for the day and reattempt when symptoms have |
| 461 | | lessened or resolved (such as the next day). |
| 462 | | |
| 463 | 4. | If symptoms persist or fail to improve over time, additional in-school support may be |
| 464 465 | | 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 |
| 466 | | (see page 21). Section 504 is part of the Rehabilitation Act of 1973 and is designed to |
| 467 | | protect the rights of individuals with disabilities in programs and activities that receive |
| 468 | | federal financial assistance from the U.S. Department of Education. Section 504 requires |
| 469 470 | | a school district to provide a "free appropriate public education" (FAPE) to each qualified student with a disability who is in the school district's jurisdiction, regardless of the |
| 470 | | nature or severity of the disability. Under Section 504, FAPE consists of the provision of |
| 472 | | regular or special education and related aids and services designed to meet the student's |
| 473 | | individual educational needs as adequately as the needs of nondisabled students are met. |
| 474 475 | | More information is available on Section 504 law at |
| 475 476 | | http://www2.ed.gov/about/offices/list/ocr/index.html |
| - | | |
| 477 | | A Q&A on Section 504 including information on addressing temporary |
| 478 | | impairments such as concussions is available at |
| 479 | | http://www2.ed.gov/about/offices/list/ocr/504faq.html |
| 480 | | Parents/guardians, teachers, and school staff should watch for signs of concussion |

symptoms such as fatigue, irritability, headaches, blurred vision, or dizziness which 481 reappear or worsen with any type of mental activity or stimulation. If any of these signs 482 and symptoms occur or worsen, the student should cease the activity and be allowed a 483 brief rest break. Return of symptoms should guide whether the student should participate 484 in an activity. Initially a student with a concussion may only be able to attend school for 485 a few hours per day and/or need rest periods during the day. Students may exhibit 486 increased difficulties with focusing, memory, learning new information, and/or an 487 increase in irritability or impulsivity. Schools should have a plan in place related to 488 transitioning students back to school and for making accommodations for missed tests 489 and assignments. If the student's symptoms last longer than 7-14 days without 490 improvement, a licensed health care provider should consider referring the student for an 491 evaluation by a medical specialist in traumatic brain injury. In the case or prolonged 492 recovery, academic accommodations such as modification of exams, reduced 493 homework load, and extended time to complete assignments may be necessary. 494

495

499

- A student 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).
- 500 The American Academy of Pediatrics (AAP) Return to Learn Following a Concussion 501 Guidelines (October 2013), and the American Medical Society for Sports Medicine 502 (AMSSM) Position Statement (2013), are available online to assist health care providers, 503 students, their families, and school divisions, as needed.

505 **Physical Rest**

506

504

507 Physical rest includes getting adequate sleep, taking frequent rest periods or naps, and avoiding 508 or reducing physical activity that requires exertion. Some activities that should be avoided 509 include, but are not limited to:

- 510
- 512 \Box High speed and/or intense exercise and/or sports
- 513 \Box Any activity that results in a significant increase in symptoms or head pressure
- 514 (e.g., straining)
- 515

516 Students may feel sad or angry about having to limit activities or having difficulties keeping up 517 in school. Students should be reassured that the situation is temporary, that the goal is to help the 518 student get back to full activity as soon as it is safe, and that they should avoid activities which 519 will delay their recovery. Students should be informed that the concussion will resolve more 520 quickly when they follow their medical provider's orders as supported by various studies. 521 Students will need encouragement and support at home and school until symptoms fully resolve.

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- 523
- 524

| 525 526 | Return to School Activities Protocol for Return to Play |
|------------|---|
| 527 | 1. No member of a school athletic team shall participate in any athletic event or practice the |
| 528 | same day he/ or she is injured and: |
| 529 | |
| 530 | a. exhibits signs, symptoms, or behaviors attributable to a concussion; or |
| 531 | b. has been diagnosed with a concussion. |
| 532 | |
| 533 | 2. No member of a school athletic team shall return to participate in an athletic event or |
| 534 | training on the days after he/she experiences a concussion unless all of the following |
| 535 | conditions have been met: |
| 536 | |
| 537 | a. the student attends all classes, maintains full academic load/homework, and |
| 538 | requires no instructional modifications; |
| 539 | b. the student no longer exhibits signs, symptoms, or behaviors consistent with a |
| 540 | concussion at rest or with exertion; |
| 541 | c. the student is asymptomatic during or following periods of supervised exercise |
| 542 | that is gradually intensifying; and |
| 543 | d. the student receives a written medical release from an appropriate licensed health |
| 544 | care provider. |
| 545 | |
| 546 | Once a student diagnosed with a concussion has been symptom free at rest for at least 24 hours, a |
| 547 | licensed health care provider may choose to clear the student to begin a graduated return to |
| 548 | activities. If a school has concerns or questions about the licensed heath care provider, the |

school nurse or athletic trainer should contact that provider to discuss and clarify. Additionally,
the school nurse and/or athletic trainer have the final authority to clear students to participate in
or return to extra-class physical activities.

Students should be monitored for any return of signs and symptoms of concussion. School staff 552 members should report any observed return of signs and symptoms to the school nurse, certified 553 athletic trainer, or administrator in the absence of the school nurse or athletic trainer. A student 554 should only move to the next level of activity if he/she remains symptom free at the current level. 555 Return to activity should occur with the introduction of one new activity each 24 hours. If any 556 post -concussion symptoms return, the student should drop back to the previous level of activity, 557 then re-attempt the new activity after another 24 hours have passed. A more gradual progression 558 should be considered based on individual circumstances and a private medical provider's or 559 other specialist's orders and recommendations. The following is a recommended sample return 560 to physical activity protocol based on the Consensus Statement on Concussion in Sport: The 4th 561 International Conference on Concussion in Sport held in Zurich, November 2012 (Br J Sports 562 Med 2013; 47:250-258 doi: 10.1136/bjsports-2013-092313, p. 4) 563

564

| Rehabilitation stage | Functional exercise at each stage of rehabilitation | Objective of each stage |
|---|---|---|
| 1. No activity | Symptom limited physical and cognitive rest | Recovery |
| 2. Light aerobic exercise | Walking, swimming or stationary cycling keeping intensity 70% maximum permitted heart rate; No resistance training | Increase heart rate |
| 3. Sport-specific exercise | Skating drills in ice hockey, running drills in soccer. No head impact activities | Add movement |
| Non-contact training drills | Progression to more complex training drills, e.g., passing drills in football and ice hockey; may start progressive resistance training | Exercise, coordination and cognitive load |
| 5. Full-contact practice | Following medical clearance participate in normal training activities | Restore confidence and assess functional skills by coaching staff |
| 6. Return to play | Normal game play | |

567 Guidelines for the Concussion Management Team

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Concussion management requires a coordinated, collective effort among school personnel along 569 with parent(s)/guardian(s) to monitor an individual student's progress. They should advocate for 570 academic and physical accommodations as appropriate to reduce delays in a student's ability to 571 572 return to full activities. A school concussion management team can be a useful strategy to achieve these goals. ACPS will form a Division Concussion Management Team (CMT) to 573 574 oversee and implement the school division's concussion guidelines and protocols. This team shall include, but is not limited to: school administrator, athletic director, licensed health care 575 provider(s) (including school nurse and athletic trainer), a coach, a parent/guardian, a student, 576 577 and other persons the Superintendent determines will assist the CMT.

578

579 In collaboration with the licensed health care provider and the school staff, the student and the 580 student's family play a substantial role in assisting the student to recover. The following section 581 outlines the important role every member of the team contributes to ensuring students are 582 healthy, safe, and achieving their maximum potential. The primary focus of all members should 583 be the student's health and recovery.

584

585 <u>Members of the school team may include, but are not necessarily limited to:</u>

- 586 Student
- 587 Parents/Guardians
- 588 School Administration
- 589•School Support Team Members

- 590 Licensed Health Care Provider and other Specialists
- 591 School Nurse
- 592 Athletic Director
- 593 Certified Athletic Trainer
- Physical Education Teacher/Coaches/Marching Band Directors
- 595 Teachers

Students

597 Students should be encouraged to communicate any symptoms promptly to school staff and/or 598 parents/guardians as a concussion is primarily diagnosed by reported and/or observed signs and 599 symptoms. It is the information provided by the student about their symptoms and the cognitive 600 and physical triggers that worsen their symptoms that guides the other members of the team in 601 transitioning the student back to activities. The amount and type of feedback reported by the 602 student will be dependent on age and other factors. Therefore it is recommended that students:

Parents/Guardians

Parent/guardians play an integral role in assisting their child and are the primary advocate for their child. When their child is diagnosed with a concussion, it is important that the parent/guardian communicates with both the licensed health care provider and the school. Understandably, this is a stressful time for the parent/guardian as they are concerned about their child's well-being. Therefore, it is recommended that parents/guardians:

| 653 654 • | Be familiar with the signs and symptoms of concussions. This may be accomplished by reading pamphlets, web-based resources, and/or attending meetings prior to their child's involvement in interscholastic athletics. One free, online resource available to families is the CDC's Heads Up Toolkit for Parents <u>https://www.cdc.gov/headsup/parents/</u> Be familiar with the requirement that any student believed to have suffered a concussion must immediately be removed from athletic activities. Be familiar with any concussion policies or protocols implemented by the school division. These policies are in the best interest of their child. Be made aware that concussion symptoms that are not addressed can prolong concussion recovery. Provide any forms and written orders from the health care provider to the certified athletic trainer or school nurse in a timely manner. Monitor their child's physical and mental health as they gradually transition back to full activity after sustaining a concussion. Report concerns to their child's licensed health care provider and the school as necessary. Communicate with the certified athletic trainer or school nurse to assist in transitioning their child back to school after sustaining a concussion. Communicate with school staff if their child is experiencing significant fatigue or other symptoms at the end of the school day. Follow the licensed health care provider at home for return to activities. |
|--------------|--|
| 654 • | |
| 655 656 | |

School Administrators

The school administrator and/or designee will ensure that the Division's guidelines and policies on concussion management are followed. The administrator will designate a formal concussion management team to oversee that the ACPS Concussion Protocol is enforced and guidelines are implemented. Therefore, administrators should:

| 662 | • Review the district's concussion management protocol with all staff. |
|-----|--|
| 663 | • Arrange for professional development sessions regarding concussion management for |
| 664 | staff and/or parent meetings. |
| 665 | • Provide emergency communication devices for school activities. |
| 666 | • Provide guidance to staff on district wide policies and protocols for emergency care |
| 667 | and transport of students suspected of sustaining a concussion. |
| 668 | • Develop plans to meet the needs of individual students diagnosed with a concussion |
| 669 | after consultation with the health care provider, school nurse, or certified athletic |
| 670 | trainer. |
| 671 | Enforce Division concussion management policies and protocols. |
| 672 | • Assign a staff member as a liaison to the parent/guardian. The liaison should contact |
| 673 | the parent/guardian on a regular basis with information about their child's progress at |
| 674 | school and discuss the addition or modification of academic accommodations, as |
| 675 | necessary. |
| 676 | • Encourage parents/guardians to communicate to appointed school staff if their child is |
| 677 | experiencing significant fatigue or other symptoms at the end of the day or during |
| 678 | particularly challenging classes. |
| 679 | • Invite parents/guardians participation in determining their child's needs at school. |
| 680 | • Encourage parents/guardians to communicate with the private medical provider on |
| 681 | the status of their child and their progress with return to school activity. |
| 682 | • Where appropriate, ask a parent/guardian to sign a Uniform Authorization to Use and |
| 683 | Exchange Information in order for school staff to provide information regarding the |
| 684 | student's progress to the licensed health care provider. |
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| 695 | School Counselors |
| 696 697 | The School Counselor serves as the academic support/advisor for the student and the family. In this role, the school counselor maintains responsibility for the following activities: |
| 698 699 700 701 702 703 704 | Collaborate with the school nurse and/or the athletic trainer in creating accommodations as requested by the licensed health care provider or other specialist. Determine need for a 504 meeting to ensure necessary academic accommodations. Communicate academic accommodations plan with student's teachers periodically as the plan evolves to reflect the student's recovery and progress. Serve as the liaison between parents and school staff for management of academic accommodations plan. |
| 705 706 | • Communicate concerns regarding academic modifications with the school nurse and licensed health care provider. |

707 Licensed Health Care Providers/Specialists

The primary care provider is vital to all of the other Concussion Management Team members by
 providing orders and guidance that determine when the student is able to begin transitioning back
 to school and activities.

Due to the different laws that govern confidentiality of information, licensed health care providers and other specialists need to be aware that while they are governed by HIPAA (Health Insurance Portability and Accountability Act), school divisions are governed by FERPA. In order to send information to the Division regarding the student, the provider will need parent/guardian

- 715 consent.
- Likewise, ACPS must require parent/guardian consent in order to release information to the
- 717 provider. Further information on how these laws interact is available at
- 718 <u>http://www2.ed.gov/policy/gen/guid/fpco/doc/ferpa-hipaa-guidance.pdf.</u> ACPS uses the

719 Uniform Authorization to Use and Exchange Information form to facilitate consent for sharing of

- 720 information. This form can also be found at
- 721 https://www.acps.k12.va.us/cms/lib/VA01918616/Centricity/Domain/68/exchange-info-form.pdf
- 722 Therefore, the licensed health care provider should:
- Provide an academic management plan to include orders regarding restrictions, monitoring for worsening symptoms, and any additional concerns that would prompt communication to the family, the school nurse, and/or other healthcare provider specialists.
- Provide the school with a graduated return to cognitive and physical activity schedule
 to follow or approve use of the district's graduated return to activity schedule if
 deemed appropriate.
- Readily communicate with the school nurse, certified athletic trainer, or school administrator to clarify orders.
- Provide written clearance for return to full activities (in order for a student to return to athletic activities after he or she sustained a concussion during school athletic activities, an evaluation must be completed, written, and signed by a licensed health care provider).

School Nurses

The school nurse (RN) is often the person who communicates with the primary care provider, parent/guardian, and school staff. Often he or she is the school staff member who collects written documentation and orders from the licensed health care provider. The school nurse also plays an integral role in identifying a student with a potential concussion. Additionally, he/she assesses the student's progress in returning to school activities based on licensed health care provider orders or district protocol. The CDC provides many helpful resources for school nurses, including a concussion fact sheet which can be accessed at

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745 <u>https://www.cdc.gov/headsup/pdfs/schools/tbi_factsheet_nurse-508-a.pdf</u>. Therefore, the school nurse should:

747 • Assess students who have suffered a significant fall or blow to the head or body for signs and symptoms of a concussion. Observe for late onset of signs and symptoms 748 749 and refer as appropriate. • Assess the student to determine if any danger signs and symptoms of concussion 750 warrant emergency transport to the nearest hospital emergency room per district 751 policy. 752 • Refer parents/guardians of students believed to have sustained a concussion to their 753 medical provider for evaluation. 754 Provide parents/guardians with oral and/or written instructions on observing the 755 student for concussive complications that warrant immediate emergency care. School 756 nurses are encouraged to use the CDC's Concussion Signs and Symptoms Checklist 757 when communicating with parents/guardians. These may be accessed at 758 https://www.cdc.gov/headsup/pdfs/schools/tbi_schools_checklist_508-a.pdf (English) 759 and https://www.cdc.gov/headsup/pdfs/schools/tbi checklist spanish-a.pdf (Spanish). 760 • Assist in the implementation of the licensed health care provider's or other 761 specialist's requests for accommodations. 762 • Use the licensed health care provider's or other specialist's orders to develop a care 763 plan for staff to follow. 764 765 • Monitor and assess the student's return to school activities, assessing the student's progress and communicating with the primary care provider or other specialist, 766 certified athletic trainer, parent/guardian, and appropriate district staff when 767 necessary. 768 • Collaborate with the school counselor and/or the athletic trainer in creating 769 accommodations as requested by the private medical provider or other specialist if it 770 is determined that a 504 plan is necessary. 771 • Review a private medical provider's or other specialist's written statement to clear a 772 student to return to activities. School nurses are encouraged to use the CDC Acute 773 Concussion Evaluation Care Plan to develop return to school plans in collaboration 774 with health care providers. This plan can be accessed at 775 https://www.cdc.gov/headsup/pdfs/providers/ace care plan school version a.pdf. 776 • Educate students and staff annually in concussion management and prevention. 777 778 779

Athletic Director

The Athletic Director is in charge of the interscholastic athletic program. The Athletic Director 781 782 must be aware of Division policies regarding concussion management. Concussion management extracurricular activities is guided ACPS School Board 783 in by Policy JJAC (https://www.acps.k12.va.us/cms/lib/VA01918616/Centricity/Shared/documents/school-board-784 policies/jjac.pdf). The Athletic Director serves as the liaison between district staff and coaches. 785 Therefore, the Athletic Director should: 786

- Ensure that pre-season consent forms include information about the ACPS 787 Concussion Policy and protocols for concussion management. 788 • Offer educational programs to parents/guardians and students that educate them about 789 concussions in compliance with Division policy and the Code of Virginia. 790 Inform the school nurse, certified athletic trainer, or administrator of any student who 791 • is suspected of having a concussion. 792 Ensure that any student identified as potentially having a concussion is not permitted 793 • 794 to participate in any athletic activities until written clearance is received from the student's licensed health care provider as mandated by Virginia laws. 795 Ensure that game officials, coaches, PE teachers, or parent/guardian are not permitted 796 • to determine whether a student with a suspected head injury can continue to play. 797 • Educate coaches on the school division's policies on concussions and care of injured 798 799
- students during interscholastic athletics including when to arrange for emergency medical transport. 800 801
 - Support staff implementation of graduated return to athletics protocol.
 - Enforce Division policies on concussions including training requirements for coaches • and certified athletic trainers in accordance with School Board policy JJAC.

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<u>Certified Athletic Trainers</u>

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A certified athletic trainer can identify a student with a potential concussion. In accordance with the ACPS Concussion Management Policy, the certified athletic trainer can also evaluate the student diagnosed with a concussion in his/her progress in return to athletic activities based on private medical provider orders and/or athletic department protocol. They also play an integral role in ensuring the student receives appropriate post-concussion care. The ACPS Concussion Management Guidelines for Extracurricular Athletics can be found in Appendix A. Certified athletic trainers should:

| 812 | • Oversee students taking baseline validated standardized computerized tests as |
|-----|---|
| 813 | permitted by Division guidelines and if credentialed and trained in their use. |
| 814 | Evaluate students who may have suffered a significant fall or blow to the head or |
| 815 | body for signs and symptoms of a concussion when present at athletic events. |
| 816 | Observe for late onset of signs and symptoms and refer as appropriate. |
| 817 | Evaluate the student to determine if any danger signs and symptoms of concussion |
| 818 | warrant emergency transport to the nearest hospital emergency room per district |
| 819 | policy. |
| 820 | Refer students believed to have sustained a concussion to a medical provider for |
| 821 | evaluation when initial period of physical and/or cognitive rest is not showing signs |
| 822 | of improvement. |
| 823 | Provide parents/guardians with oral and/or written instructions on observing the |
| 824 | student for concussive complications that warrant immediate emergency care. |
| 825 | Assist in implementation of the private medical provider's or other specialists' |
| 826 | requests for accommodations. |
| 827 | Monitor the student's return to school activities, evaluate the student's progress with |
| 828 | each step, and communicate with the private medical provider or other specialist, |
| 829 | school nurse, parent/guardian, and appropriate Division staff. |
| 830 | • Provide and/or review a private licensed health care provider's written statement to |
| 831 | clear a student for return to activities. |
| 832 | • Perform post-concussion observations or oversee students taking validated |
| 833 | standardized computerized tests if credentialed or trained in their use, and provide the |
| 834 | results to the private medical provider to aid him/her in determining the student's |
| 835 | status. |
| 836 | Educate students and staff in concussion management and prevention. |
| 837 | |
| 838 | |
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839 Physical Education Teachers/Coaches/Marching Band Directors

Concussions often occur during athletic activities and marching band activities. Coaches/Band Directors are typically the only Division staff at all team sports, interscholastic athletic practices, marching band practices/performances, and competitions. It is essential that coaches, physical education (PE) teachers, and band directors are familiar with possible causes of concussions along with the signs and symptoms. Coaches, physical education teachers, and band directors should always put the safety of the student first. Therefore, PE teachers, band directors, and coaches should:

| 847 | • Remove any student who has taken a significant blow to head or body, or presents |
|-----|--|
| 848 | with signs and symptoms of a head injury immediately from play as mandated by |
| 849 | Virginia laws. |
| 850 | • Contact the school nurse or certified athletic trainer (if available) for assistance with |
| 851 | any student injury. |
| 852 | • Send any student exhibiting danger signs and symptoms possibly indicating a more |
| 853 | severe injury (e.g., brain bleed) (see page 9) to the nearest hospital emergency room |
| 854 | via emergency medical services (EMS) as per protocol. |
| 855 | • Inform the parent/guardian of the need for evaluation by their licensed health care |
| 856 | provider. The coach should provide the parent/guardian with written educational |
| 857 | materials on concussions along with the district's concussion management policy. |
| 858 | • Inform the administrator, certified athletic trainer, or the school nurse of the student's |
| 859 | potential concussion. This is necessary to ensure that the student does not engage in |
| 860 | activities at school that may complicate the student's condition prior to having written |
| 861 | clearance by a medical provider. |
| 862 | • Ensure that students diagnosed with a concussion do not participate in any athletic |
| 863 | activities until, the PE teacher/coach has received written authorization from the |
| 864 | athletic trainer or school nurse (in conjunction with the student's licensed health care |
| 865 | provider) that the student has been cleared to participate. |
| 866 | • Ensure that students diagnosed with a concussion do not substitute mental activities |
| 867 | for physical activities unless a licensed health care provider clears the student to do so |
| 868 | (e.g., due to the need for cognitive rest, a student should not be required to write a |
| 869 | report if they are not permitted to participate in PE class by their medical provider). |
| 870 | • Complete the ACPS approved course for coaches and PE teachers every year. ACPS |
| 871 | has approved the course Heads Up, Concussion in Youth Sports for these professions, |
| 872 | which is a free web-based course that has been developed by the CDC. It is available |
| 873 | at https://www.cdc.gov/headsup/youthsports/training/index.html. |
| 874 | • Coaches should complete National Federation of State High School Associations |
| 875 | (NFHS) training, Concussion in Sports: What you need to know at |
| 876 | https://nfhslearn.com/courses/61064/concussion-in-sports |
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Teachers and Accommodations

Teachers can assist students in their recovery from a concussion by making accommodations that minimize aggravating symptoms so that the student has sufficient cognitive rest. Teachers should refer to Division protocols and private medical provider orders in determining academic accommodations. Section 504 plans may need to be considered for some students with severe symptoms requiring an extended time frame for accommodations. Specific concerns about a student's recovery should be communicated to the school nurse.

886 Students transitioning into school after a concussion might need academic accommodations to 887 allow for sufficient cognitive rest. These include, but are not necessarily limited to:

- 888 Shorter school day
- Allow student to wake up without alarm clock, waking up naturally
- Rest periods recommend the student be able to rest outside of the classroom for short
- 891 blocks of time if classroom activities exacerbate symptoms
- Extended time for tests and assignments
- Postpone tests or stressing projects, or break them into smaller segments
- Avoid the more challenging academic classes
- 895 Copies of notes
- 896 Alternative assignments
- 897 Minimizing distractions
- 898 Permitting student to audiotape classes
- 899 Peer note takers
- 900 Provide assignments in writing
- 901 Refocus student with verbal and nonverbal cues
- Allowance for items such as sunglasses, water bottles, or ear plugs
- 904 More information about concussions and classroom accommodations can be found at:
- 905 https://www.cdc.gov/headsup/pdfs/schools/tbi_factsheet_teachers-508-a.pdf
- 906 <u>http://www.upstate.edu/pmr/healthcare/programs/concussion/classroom.php</u>
- 907 <u>http://www.nationwidechildrens.org/concussions-in-the-classroom</u>
- 908 <u>https://www.cdc.gov/headsup/pdfs/schools/tbi_returning_to_school-a.pdf</u>
- 909

- 910 The following table provides some of the areas of difficulties along with suggested
- 911 accommodations:
- 912 (Adapted from the Center for Disease Control and Prevention, *Heads Up Facts for Physicians*
- 913 About Mild Traumatic Brain Injury) Retrieved from
- 914 <u>http://www.concussiontreatment.com/images/CDC_Facts_for_Physicians_booklet.pdf</u>
- 915

| Problem Area | Problem Description | Accommodations |
|---------------|---|---|
| Expression | Word Retrieval: May have trouble thinking of specific words (word finding problems) or expressing the specifics of their symptoms or functional difficulties | Allow students time to express themselves Ask questions about specific symptoms and problems (i.e., are you having headaches?) |
| Comprehension | Spoken: May become confused if too much information is presented at once or too quickly May need extra time processing information to understand what others are saying May have trouble following complex multi-step directions May take longer than expected to respond to a question | Speak slowly and clearly Use short sentences Repeat complex sentences when necessary Allow time for students to process and comprehend Provide both spoken and written instructions and directions |
| | Written: May read slowly May have trouble reading material in complex formats or with small print May have trouble filling out forms | Allow students extra tin to read and complete forms Provide written material in simple formats and large print when possible Have someone read the items and fill out the forms for students who are having trouble Provide word prompts Use of multiple choice responses need to be distinctly different |

| <u> </u> <u>2</u> | References |
|----------------------|---|
| 3 | |
| Ai 5 | nerican Association of Neurological Surgeons http://www.aans.org/Patient%20Information/Conditions%20and%20Treatments/Concuss |
| | ion.aspx, accessed 5/13/15 |
| | <u>1011.aspx</u> , accessed 5/15/15 |
| B | ain Injury Association of Virginia |
| | http://www.biav.net/ accessed 5/13/15 |
| | |
| С | enters for Disease Control and Prevention (CDC) |
| | http://www.cdc.gov/headsup/index.html accessed 5/13/15 |
| | |
| С | enters for Disease Control and Prevention (CDC), Morbidity and Mortality Weekly Report |
| | (MMWR) [October 7, 2011/ 60(39); 1337-1342] |
| | |
| G | idelines for Concussion Management in the School Setting. June 2012. The University of |
| | the State of New York THE STATE EDUCATION DEPARTMENT Office of Student |
| | Support Services, Albany, New York 12234 |
| | http://www.p12.nysed.gov/sss/schoolhealth/schoolhealthservices/ConcussionManageGui |
| | <u>delines.pdf</u> accessed 5/13/15 |
| | |
| C | onsensus Statement on Concussion in Sport – The 4th Conference on |
| | Concussion in Sport, held in Zurich, November 2012, Br J Sports Med |
| | 2013;47:250-258 doi:10.1136/bjsports- 2013-092313 |
| | http://bjsm.bmj.com/content/47/5/250.full accessed 5/13/15 |
| NI. | tionerida Children's Homital An Educator's Cuide to Consuming in the Classes on |
| INa | tionwide Children's Hospital - An Educator's Guide to Concussions in the Classroom |
| | http://www.nationwidechildrens.org/concussions-in-the-classroom accessed 5/13/15 |
| | accessed 5/15/15 |
| Vi | rginia Board of Education Guidelines for Policies on Concussions in Students |
| VI | http://www.doe.virginia.gov/boe/guidance/health/2016-guidelines-for-policies-on- |
| | concussions-in-students.pdf |
| | accessed 1/30/17 |
| | |
| C | nildren's National Health System, The Score Program, Schools |
| CI | http://www.childrensnational.org/score/Schools.aspx |
| | accessed 5/13/15 |
| | |

| 962 | Appendix A | | | |
|--|--|--|--|--|
| 963964Alexandria City Public Schools965Concussion Management Guidelines for Extracurricular Athletic | | | | |
| 966 | | | | |
| 967 968 | The following protocols and guidelines shall be followed in the event any student, while participating in an ACPS activity, is suspected of suffering a concussion. | | | |
| 969 | participating in an ACI 5 activity, is suspected of suffering a concussion. | | | |
| 970 | Appropriate management of concussions includes maintenance of accurate records. All | | | |
| 971 | information, including previous history, symptoms, and anecdotal information upon the first | | | |
| 972 | assessments following a concussion is to be included in the student data base. This includes the | | | |
| 973 | Standardized Assessment of Concussion with the Virginia Neurological Index (SAC VNI) | | | |
| 974 | scores. | | | |
| 975 | | | | |
| 976 | PRE or EARLY SEASON | | | |
| 977 | Concussion Education | | | |
| 978 | | | | |
| 979 | Concussion Education shall be provided or made available to all coaches, students, and parents. | | | |
| 980 | Concussion education shall include, but is not limited to: | | | |
| 981 | | | | |
| 982 | Recognition of the signs and symptoms associated with concussion; | | | |
| 983 | Process of reporting a suspected concussion; | | | |
| 984 | • Description of the concussion management process including importance of both | | | |
| 985 | cognitive and physical rest; and | | | |
| 986 | • Description of a return to play process that is progressive in nature and established by a | | | |
| 987 | licensed health care professional. | | | |
| 988 | | | | |
| 989 | Concussion education shall be a component of all pre-season coach, parent, and student | | | |
| 990 | meetings. In addition, concussion education should be shared with educational staff on an | | | |
| 991 | annual basis. | | | |
| 992 | | | | |
| 993 | Administration of a Baseline Test | | | |
| 994 005 | The following students should complete a baseling test of soon of negatible during othering | | | |
| 995 996 | The following students should complete a baseline test as soon as possible during athletic participation: | | | |
| 990 997 | | | | |
| 998 | • All 8 th , 9 th , and 11 th graders that participate in a contact sport; | | | |
| 998 999 | An s , 9 , and 11 graders that participate in a contact sport, Any student that has not been previously tested regardless of grade level; and | | | |
| | Any student that has not been previously tested regardless of grade level, and Those with a history of concussion. | | | |
| 1000 | • Those with a history of concussion. | | | |
| 1001 1002 | Baseline testing can be performed on any school based computer with a network connection and | | | |
| 1002 | a working mouse. Multiple students may be tested together, but it is imperative that the process | | | |
| 1003 | be conducted in an orderly manner and each student must be encouraged to perform his/her best. | | | |
| 1004 | In addition, it is highly imperative that initial demographic information screens be completed in a | | | |
| 1005 | systemic format as a group with close supervision. All students taking a baseline or post-injury | | | |

test must be monitored by a certified athletic trainer. Once the test begins, the students should be
left alone and reminded to refrain from disrupting other participants. It is important to recognize
that post-injury tests cannot diagnose a concussion, but are useful tools for a trained professional
when making treatment management decisions.

1011

1012 IMMEDIATELY FOLLOWING TRAUMA

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1018 1019

Administration of the thorough clinical evaluation including the <u>Standardized Assessment of</u> Concussion (McCrae et al.) and the Virginia Neurological Index (Almquist et al.) (SAC VNI)

Initial proper management of a suspected concussion includes the following:

- Administration of the SAC VNI;
 - Close monitoring of the student;
- Repeat performance of the SAC VNI prior to student leaving the athletic trainer's care when possible; and
- A copy of the "Concussion Information following a Concussion" is given to the student and/or parent.
- 1024

1025 The SAC VNI should be administered immediately following the injury to assist in determining 1026 the student's current status. In the event the student presents with signs and symptoms that 1027 prevent the administration of the SAC VNI or if the signs or symptoms worsen significantly over 1028 time, the student should be transported to an emergency receiving facility via EMS. 1029

Following the initial SAC VNI assessment, the student should be monitored closely. The SAC 1030 VNI should be repeated prior to the student leaving the care of the certified athletic trainer. The 1031 second SAC VNI assessment should be performed a minimum of 20 minutes after the initial 1032 assessment. The scores of the two SAC VNI assessments should be compared and the results 1033 can be used to provide the care plan and follow-up procedures determined by the certified 1034 athletic trainer bases on a complete clinical evaluation. It is important to administer the SAC 1035 VNI if a concussion is suspected and/or any concussion symptoms are present following the 1036 1037 trauma.

1039 Should the SAC VNI not be administered as a "sideline test" at the time of trauma, the test 1040 should be completed at the earliest opportunity that same day to assist in the follow-up care 1041 procedures. Administration of the SAC VNI is optional when a student reports to the athletic 1042 trainer the day or days following the trauma.

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- The SAC VNI is a reliable tool best used to determine if a student is suffering from a concussion, but must be considered only a component of a complete clinical evaluation. Return to play criteria and assessment are more complex and require more sensitive assessment to be considered reliable.
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Each student with a suspected concussion and his/her parent/guardian should be provided with a copy of "Concussion Information Following a Concussion" with an emphasis on instructions to seek immediate medical attention should any of the signs or symptoms appear and/or worsen significantly over time. Information regarding appropriate physical rest (refrain from
independent team practices and games) and cognitive rest (limit studying, avoid video games,
texting, etc.) should be provided to both the student and the parent/guardian.

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1056 When appropriate, options concerning school attendance modifications and academic 1057 accommodations may be discussed with parents/guardians.

- 1059 FOLLOW-UP PROCEDURES
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Proper follow-up management of concussion includes the following:

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- Administration of useful symptoms, balance, and neurocognitive tools, when deemed appropriate by the athletic trainers (typically within 24-72 hours);
- Completion of a thorough clinical exam focusing on relevant symptoms indicating changes to normal cognitive and physical function;
- Communication with parents/guardians, guidance counselors, teachers, and coaches as appropriate regarding possible modifications to a typical day and cognitive and physical activities;
- Initiation of Return-To-Play (RTP) process including progressive increases in physical intensity AFTER the student is asymptomatic with rest, cognitive exertion, and performs at baseline or norm levels with neurocognitive testing before initiating return-to-play protocol; and
- RTP process includes a step-wise progressive increase in physical activity beginning with
 non-percussive activity, continuing through an intensive, extended, exercise bout
 reaching anaerobic threshold without any return of symptoms.
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A complete evaluation of clinical signs and symptoms should be performed each day the student
has access to the athletic training staff. The student should always be reminded to complete the
test to the best of their ability and they should be monitored while taking the test.

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Please remember any neurocognitive test is but one of several tools available in the comprehensive management of a concussion, and should never be the single determining factor in determining concussion management or return to play, nor should the perception by parents/coaches/students be that the test will be single determining factor regarding RTP.

1087 Information from this test should be reviewed and information may be used to recommend 1088 rest/activity strategies. Information may also be used to coordinate management strategies with 1089 teachers regarding cognitive exertion. Cognitive exertion can be limited as deemed appropriate 1090 during the rest stage. Parents, teachers, and guidance counselors should be involved in each 1091 individual's concussion management plan with continuous feedback regarding the student's 1092 status and his/her symptoms at home and in the classroom.

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- 1094 Strategies to limit the exacerbation or return of symptoms may include but are not limited to:
- Allow student to wake up without an alarm clock, waking up naturally;

- Recommend the student be able to rest for short blocks of time if classroom activities exacerbate symptoms;
- Postpone tests or stressing projects; and
 - Avoid the more challenging academic classes.
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When a thorough clinical evaluation reveals all signs and symptoms have resolved, implement a progressive physical and cognitive exertion protocol. Progressive physical exertion should begin with low impact, low intensity that would raise respiration and heart rate while being closely monitored. If any signs or symptoms return, the student shall rest for at least 24 hours. The timeline of the progression of symptom resolution shall be documented in the SIMS computer system. Physical exertion should be progressively increased in stages over a minimum five-day period if no signs or symptoms return.

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1109 Return to Play Criteria

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1111 A licensed health care provider must base the RTP decision on the resolution of symptoms and a 1112 progressive amount of activity with close observation of symptoms. It is important to document 1113 all signs and symptoms of a concussed student in support of the return to play decision.

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No student shall be allowed to return to extracurricular physical activities, which includes the 1115 student's practices, games, or competitions, until the student presents a written medical release 1116 1117 from the student's licensed health care provider. The written medical release shall certify that (i) the provider is aware of the current medical guidance on concussion evaluation and 1118 management; (ii) the student no longer exhibits signs, symptoms, or behaviors consistent with a 1119 1120 concussion at rest or with exertion; and (iii) the student has successfully completed a progressive return to sports participation program. The length of progressive return to sports participation 1121 program shall be determined by the student's licensed health care provider but shall last a 1122 minimum of five calendar days. 1123

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1125 The coach of a student may elect not to allow a student to return to extracurricular physical 1126 activities, even after the production of written medical release from the student's licensed health 1127 care provider, if the coach observes signs and symptoms of sports-related concussions. If the 1128 student's coach makes such a decision, the coach shall communicate the observations and 1129 concerns to the student's parent or guardian within one day of the decision not to allow such 1130 student to return to extracurricular physical activities. (See School Board policy JJAC.)

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1132 ACPS Concussion Management Summary

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1134 When dealing with concussion management, ACPS will support the decision to exclude a student 1135 from participation based on current scientific published and expert opinion. It is recommended 1136 that the athletic trainer leave open the opportunity for an individual student to receive extensive 1137 follow-up care including, but not limited to, full consultation with a neuro-psychologist, 1138 neurosurgeon, etc.

1140 There are data that suggest the current knowledge of concussions by general practitioners, family 1141 physicians and primary care physicians are inconsistent with recent information regarding 1142 appropriate concussion management. Therefore, the knowledge of concussions possessed by this 1143 group of medical experts should be evaluated carefully before considering them an appropriate 1144 referral, especially when advice contrary to the guidelines is considered. It is strongly 1145 recommended that students suffering from a concussion be evaluated by a physician possessing 1146 knowledge of current scientific published guidelines prior to returning to participation in sports.

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All efforts should be made by certified athletic trainers in cooperation with coaches to complete baseline neuropsychological testing on each student as soon as possible. It is essential that coaches and student cooperate in these efforts to obtain valid baseline tests on each student that participates in a contact sport.

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1153 **Tips from the field:**

- 1154 Sample RTP Protocol: (at least 24 hours must pass between each step)
- 1155 1. No exertional activity until asymptomatic.
- 11562. Begin low-impact activity such as walking, stationary bike
- 1157 3. Initiate aerobic activity to specific sport such as running; may also begin progressive strength training activities
- 1159 4. Begin non-contact skill drills specific to sport, such as dribbling, fielding, batting, etc.
- 1160 5. Full contact in practice setting.
- 1161 6. If student remains asymptomatic, he or she may return to game/play.
- ACPS athletic trainers should be very careful regarding how the follow-up information is received by students, coaches, and parents. Many common statements have proven troublesome in the past. For example: "the student must see a physician before they are permitted to return to play." This may imply to someone that if a physician sees the student, they are automatically eligible to return to play.
- Follow the management guidelines. It is the guidelines, not the athletic trainer, which may prevent a student from returning to play. Discuss concussion management with your team physician. Strive to reach an agreement to follow the published guidelines and develop a game plan if care decisions for a student are challenged by coaches, parents, or treating physicians. The game plan might include the identification of neuro-psychologists or neurologists that might be consulted for an individual case.
- Athletic trainers must be familiar with recognizing signs and symptoms of concussions and should avoid minimizing the significance of apparent symptoms based on the influence of coaches, students or others that might be affected by the pressure of finishing a game or practice sessions.
- Understanding of a student's history of prior concussion is essential when making decisions regarding return to play. Information regarding previous history should be

| 1183 | с | arefully evaluated for | accuracy, paying attention to timing, significance of | | | |
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| 1184 | symptoms, and reports of physician's diagnosis. Inaccurate reporting can range from | | | | | |
| 1185 | a student claiming they were "knocked out for a while" when they in fact never lost | | | | | |
| 1186 | consciousness, to claiming it was not a concussion because they had no loss of | | | | | |
| 1187 | с | consciousness but were c | onfused and had a persistent headache for days. The athletic | | | |
| 1188 | tı | rainer should take extra | measures to address the specifics of previous trauma when | | | |
| 1189 | d | lealing with multiple inju | nries. | | | |
| 1190 | | | | | | |
| 1191 | Established: | February 1, 2017 | | | | |
| 1192 | | - | | | | |
| 1193 | Legal Refs.: | Code of Virginia, 1950 | , as amended, <u>§ 22.1-271.5, 22.1-271.6</u> | | | |
| 1194 | - | - | | | | |
| 1195 | Virginia Board of Education Guidelines for Policies on Concussions in Student-Athletes | | | | | |
| 1196 | (Adopted January 22, 2015) | | | | | |
| 1197 | · · · | • | | | | |
| 1198 | Guidelines for Concussion Management in the School Setting, June 2012. The University of the | | | | | |
| 1199 | State of New York. THE STATE EDUCATION DEPARTMENT Office of Student Support | | | | | |
| 1200 | Services, Albany, New York 12234 | | | | | |
| 1201 | http://www.p12.nysed.gov/sss/schoolhealth/schoolhealthservices/ConcussionManageGuidelines. | | | | | |
| 1202 | pdf | | C C | | | |
| 1203 | 1 | | | | | |
| 1204 | | | | | | |
| 1205 | Cross Refs.: | JJAC | Student-Athlete Concussions During Extracurricular | | | |
| 1206 | | | Activities | | | |
| 1207 | | KG | Community Use of School Facilities | | | |
| 1208 | | KGB | Public Conduct on School Property | | | |
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