

2023-2024 Interscholastic Youth Sports Acute Brain Injury Report

#### 2023-2024

## **Interscholastic Youth Sports Acute Brain Injury Prevention Report**

SCS HCS HB 300, 334, and 387 became law in August 2011, and it mandates that an organization with public schools as members must publish and distribute an annual report regarding the impact of student athlete concussions and head injuries which should include efforts that may be made to minimize damages from school sports injuries. The Department of Health and Senior Services, along with a statewide association of school boards [Missouri School Board Association (MSBA)], a statewide activities association that provides oversight for athletic or activity eligibility for students and school districts, [Missouri State High School Activities Association (MSHSAA)], and an organization named by the Department of Health and Senior Services that specializes in support services, education and advocacy of those with brain injuries [Brain Injury Association of Missouri (BIA-MO)] developed guidelines, pertinent information and forms to educate coaches, staff members, athletes and parents or guardians of youth athletes of the nature and risk of concussion and brain injury including continuing to play after a concussion or a brain injury (1).

MSHSAA has distributed and updated head injury materials annually since August of 2009 to its member schools using a variety of sources (2). These materials provide information that will educate parents, coaches, staff members, and athletes on the prevention, management, and dangers of head injuries in interscholastic sports (3). In December of 2011, MSHSAA conducted its first annual survey of member schools and the impact of head injuries. A thirteenth survey was conducted from August 1, 2023 through June 30, 2024, to collect data from the MSHSAA member schools. Five hundred and eighty-nine schools were contacted to complete the survey during the 2023-2024 school. Working with the Brain Injury Association of Missouri, Department of Health and Senior Services, Missouri Athletic Trainers Association, Missouri School Nurses Association and Missouri School Board Association, a pilot program began for the winter and spring of 2014, Sports Concussions: Facts, Fallacies and New Frontiers. The program was conducted in five regional sites presenting a one-day seminar educating staff members, coaches, nurses and athletic trainers on the new research and policies pertaining to head injuries. Because of the great success and attendance of the program, we are hopeful this partnership continues in future years.

Harvey Richards, retired Associate Executive Director formerly in charge of Sports Medicine for MSHSAA, was a part of the state legislative process for the head injury bill (4). Greg Stahl, retired Executive Assistant formerly in charge of Sports Medicine for MSHSAA, lead the committee (5). Dr. Jennifer Rukstad is the current Executive Director in charge of Sports Medicine for MSHSAA, responsible for the distribution of educational materials to member schools, and conducted the 2023-2024 Head Injury Survey (6).

- (1) Timetable of Meetings, Appendix A
- (2) Fall membership-mailing, e-mails, website (mshsaa.org), district in-services
- (3) Educational packet for member schools, Appendix B
- (4) Harvey Richards, Retired Associate Executive Director
- (5) Greg Stahl, Retired Assistant Executive Director
- (6) Dr. Jennifer Rukstad, Executive Director, 1 N Keene St., Columbia, MO 65201; (573) 875-4880

## 2023-2024 Head Injury Survey

| School<br>Level  |      |      | Total Schools Completed Survey |      | Did Not Complete<br>the Survey |      |      | % of Member Schools<br>that Completed<br>Survey |      |       |       |       |
|--|------|------|--------------------------------|------|--------------------------------|------|------|---|------|-------|-------|-------|
|  | 2024 | 2023 | 2022                           | 2024 | 2023                           | 2022 | 2024 | 2023  | 2022 | 2024  | 2023  | 2022  |
| High<br>Schools<br>9-12 and<br>Combined<br>Schools<br>7-12 | 589  | 588  | 586                            | 569  | 559                            | 542  | 20   | 29  | 44   | 96.6% | 95.1% | 92.5% |

#### **Use of Online Video**

The National Federation of High School Activities (NFHS) has produced and made available for free, the online course "Concussions in Sports." MSHSAA has approved this course for coaches to take as their educational component of the law. Many school districts continue to view this course as an in-service with the entire coaching staff, while other school districts have coaches complete the course individually to meet the by-law requirement for completing concussion education. For the year July 1, 2023 through June 30, 2024, 15,144 online courses were completed in Missouri.

The next table reflects the number of participants for each sport and/or activity by our member schools. This number will include duplicates for students who are in multiple activities. Music/Band, Sideline Cheerleading (Spirit) and Dance begin in the fall, but some schools will only participate in the winter or spring. The following table reflects the participation rates for both the 2022-2023 and 2023-2024 school years.

| High School Sport/Activity     | Particip  | ants      |
|--------------------------------|-----------|-----------|
| ingii concor operarioarity     | 2023-2024 | 2022-2023 |
| 11-man Football                | 20,929    | 21,060    |
| 8-man Football                 | 1,040     | 944       |
| Baseball                       | 14,573    | 14,832    |
| Basketball-Boys                | 13,149    | 13,258    |
| Basketball-Girls               | 8,588     | 8,980     |
| Bass Fishing                   | 152       | 300       |
| Bowling                        | 125       | 151       |
| Chess                          | 94        | 159       |
| Cross Country-Boys             | 5,287     | 5,057     |
| Cross Country-Girls            | 3,972     | 3,841     |
| Dance/Pom Team                 | 2,643     | 2,737     |
| Esports                        | 1,359     | 897       |
| Field Hockey                   | 1,022     | 1,137     |
| Golf-Boys                      | 4,583     | 4,289     |
| Golf-Girls                     | 2,341     | 2,222     |
| Lacrosse-Girls                 | 1,520     | 1,403     |
| Music Activities (All)         | 50,548    | 51,258    |
| Scholar Bowl                   | 5,104     | 5,452     |
| Sideline Cheerleading (Spirit) | 9,419     | 9,298     |
| Soccer-Boys                    | 8,629     | 8,467     |
| Soccer-Girls                   | 7,878     | 7,661     |
| Softball-Girls                 | 8,682     | 9,003     |
| Speech/Debate/Theatre          | 7,763     | 7,884     |
| Stunt                          | 76        | 0         |
| Swimming and Diving-Boys       | 1,735     | 1,734     |
| Swimming and Diving-Girls      | 2,755     | 2,770     |
| Target Shooting                | 684       | 657       |
| Tennis-Boys                    | 3,565     | 3,502     |
| Tennis-Girls                   | 4,725     | 4,451     |
| Track and Field-Boys           | 16,575    | 15,843    |
| Track and Field-Girls          | 13,385    | 12,868    |
| Volleyball-Boys                | 2,012     | 1,576     |
| Volleyball-Girls               | 11,028    | 11,049    |
| Water Polo                     | 541       | 552       |
| Wrestling-Boys                 | 8,014     | 7,339     |
| Wrestling-Girls                | 2,640     | 2,342     |
| Totals                         | 247,135   | 242,973   |

NOTE: All Music Activities include Choir, Concert Band, Marching Band and Orchestra

| High School Sport/Activity                       | Total Participation |
|--|---------------------|
| Sport  | 169,244             |
| *Taking into Account 20% Duplication of Athletes | 33,849              |
| Total Adjustment Participation Sport             | 135,395             |
| Activity   | 77,891              |
| *Taking into Account 20% Duplication of Students | 15,578              |
| Total Adjustment Participation Activity          | 62,313              |
| Total Adjustment Participation Sport/Activity    | 197,708             |

<sup>\*20%</sup> Duplication is only an estimate and not an actual number

#### **Data Collected**

Schools were asked to provide information that related to possible head injuries. If signs or symptoms of a head injury were present, the student was to be withheld from that sport and or activity for a minimum of 24 hours and must have been seen by a medical professional. They must also provide to the school a **Return to Play** form before return to the sport or activity. The information below reflects those students who had to see a medical professional and provide a **Return to Play** form. Not all incidents would have resulted in a concussion.

#### **HIGH SCHOOL ACTIVITIES**

| Activity              | Activity<br>Related | Non-<br>Activity<br>Related | Days/<br>Class<br>Act | Days/<br>Class<br>Non-Act | Days<br>Missed<br>Activity | Days<br>Missed<br>Non-Act | Diagnosed<br>Activity | Diagnosed<br>Non-Act | School<br>Report-<br>ing | Schools<br>Partici-<br>pating |
|-----------------------|---------------------|-----------------------------|-----------------------|---------------------------|----------------------------|---------------------------|-----------------------|----------------------|--------------------------|-------------------------------|
| Scholar Bowl          | 0                   | 0                           | 0                     | 0                         | 0                          | 0                         | 0                     | 0                    | 0                        | 415                           |
| Sideline Cheer        | 371                 | 32                          | 511                   | 37                        | 5389                       | 388                       | 300                   | 24                   | 163                      | 531                           |
| Music Activities      | 14                  | 9                           | 2                     | 12                        | 127                        | 66                        | 10                    | 8                    | 16                       | 529                           |
| Dance/Pom             | 28                  | 4                           | 22                    | 5                         | 277                        | 53                        | 18                    | 3                    | 23                       | 211                           |
| Speech/Debate/Theatre | 0                   | 0                           | 0                     | 0                         | 0                          | 0                         | 0                     | 0                    | 0                        | 221                           |
| Bass Fishing          | 0                   | 0                           | 0                     | 0                         | 0                          | 0                         | 0                     | 0                    | 0                        | 21                            |
| Bowling               | 0                   | 0                           | 0                     | 0                         | 0                          | 0                         | 0                     | 0                    | 0                        | 10                            |
| Chess                 | 0                   | 0                           | 0                     | 0                         | 0                          | 0                         | 0                     | 0                    | 0                        | 16                            |
| Target Shooting       | 1                   | 0                           | 1                     | 0                         | 10                         | 0                         | 0                     | 0                    | 1                        | 38                            |
| Esports               | 0                   | 0                           | 0                     | 0                         | 0                          | 0                         | 0                     | 0                    | 0                        | 110                           |
| TOTAL                 | 413                 | 45                          | 535                   | 54                        | 5793                       | 507                       | 328                   | 35                   | 202                      | 2102                          |

#### HIGH SCHOOL SPORTS

| Activity                | Sport<br>Related | Non-<br>Sport<br>Related | Days/<br>Class<br>Sport | Days/<br>Class<br>Non-<br>Sport | Days<br>Missed<br>Sport | Days<br>Missed<br>Non-<br>Sport | Diagnosed<br>Sport | Diagnosed<br>Non-<br>Sport | School<br>Report-<br>ing | Schools<br>Partici-<br>pating |
|-------------------------|------------------|--------------------------|-------------------------|---------------------------------|-------------------------|---------------------------------|--------------------|----------------------------|--------------------------|-------------------------------|
| Baseball - Spring       | 112              | 18                       | 80                      | 24                              | 747                     | 101                             | 68                 | 13                         | 95                       | 509                           |
| Baseball - Fall         | 2                | 1                        | 2                       | 0                               | 2                       | 10                              | 0                  | 1                          | 3                        | 101                           |
| Basketball - Boys       | 234              | 20                       | 189                     | 63                              | 1604                    | 211                             | 148                | 15                         | 154                      | 582                           |
| Basketball - Girls      | 293              | 22                       | 245                     | 27                              | 2515                    | 281                             | 228                | 17                         | 185                      | 544                           |
| Cross Country - Boys    | 3                | 9                        | 0                       | 12                              | 18                      | 87                              | 2                  | 6                          | 10                       | 460                           |
| Cross Country - Girls   | 2                | 6                        | 0                       | 3                               | 12                      | 90                              | 1                  | 6                          | 7                        | 437                           |
| Field Hockey            | 13               | 2                        | 8                       | 2                               | 128                     | 21                              | 10                 | 2                          | 8                        | 30                            |
| 11-Man Football         | 1566             | 41                       | 1105                    | 74                              | 13807                   | 410                             | 1223               | 30                         | 271                      | 311                           |
| 8-Man Football          | 73               | 3                        | 72                      | 3                               | 356                     | 14                              | 46                 | 2                          | 30                       | 45                            |
| Golf – Boys             | 5                | 2                        | 2                       | 5                               | 21                      | 32                              | 4                  | 2                          | 6                        | 347                           |
| Golf - Girls            | 1                | 5                        | 0                       | 4                               | 0                       | 27                              | 0                  | 4                          | 5                        | 245                           |
| Lacrosse - Girls        | 55               | 5                        | 31                      | 4                               | 503                     | 64                              | 44                 | 4                          | 24                       | 38                            |
| Soccer - Boys           | 272              | 16                       | 154                     | 7                               | 1884                    | 113                             | 188                | 14                         | 143                      | 242                           |
| Soccer – Girls          | 341              | 22                       | 280                     | 28                              | 2756                    | 291                             | 261                | 19                         | 143                      | 245                           |
| Softball - Girls Fall   | 130              | 13                       | 104                     | 5                               | 1073                    | 102                             | 89                 | 9                          | 93                       | 326                           |
| Softball - Girls Spring | 23               | 4                        | 16                      | 5                               | 89                      | 31                              | 12                 | 3                          | 18                       | 144                           |
| Stunt - Girls           | 1                | 0                        | 1                       | 0                               | 9                       | 0                               | 1                  | 0                          | 1                        | 5                             |
| Swim/Diving - Boys      | 2                | 4                        | 0                       | 7                               | 21                      | 36                              | 2                  | 4                          | 6                        | 119                           |
| Swim/Diving - Girls     | 10               | 7                        | 17                      | 7                               | 148                     | 125                             | 9                  | 7                          | 15                       | 142                           |
| Tennis-Boys             | 5                | 2                        | 0                       | 2                               | 26                      | 11                              | 4                  | 2                          | 7                        | 180                           |
| Tennis - Girls          | 8                | 2                        | 7                       | 5                               | 58                      | 21                              | 6                  | 2                          | 8                        | 189                           |
| Track/Field (B) Spring  | 23               | 12                       | 18                      | 4                               | 222                     | 79                              | 16                 | 7                          | 32                       | 528                           |
| Track/Field (G) Spring  | 27               | 23                       | 22                      | 38                              | 350                     | 299                             | 22                 | 20                         | 42                       | 528                           |
| Volleyball - Boys       | 18               | 2                        | 6                       | 1                               | 128                     | 8                               | 12                 | 2                          | 15                       | 82                            |
| Volleyball - Girls      | 186              | 27                       | 164                     | 41                              | 1560                    | 290                             | 140                | 25                         | 117                      | 457                           |
| Water Polo - Boys       | 12               | 0                        | 0                       | 0                               | 84                      | 0                               | 9                  | 0                          | 8                        | 20                            |
| Water Polo - Girls      | 9                | 0                        | 19                      | 0                               | 166                     | 0                               | 9                  | 0                          | 6                        | 10                            |
| Wrestling - Boys        | 357              | 16                       | 241                     | 8                               | 3965                    | 160                             | 274                | 9                          | 139                      | 250                           |
| Wresting – Girls        | 196              | 8                        | 191                     | 27                              | 2400                    | 230                             | 156                | 6                          | 89                       | 225                           |
| TOTAL                   | 3979             | 292                      | 2974                    | 406                             | 34652                   | 3144                            | 2984               | 231                        | 1680                     | 7341                          |

## 2023-2024 Concussion Survey Results

| Sports      | Suspected Sport Head<br>Injuries | Number of Days<br>Sport was Missed | Number of Days Class<br>Missed |
|-------------|----------------------------------|------------------------------------|--------------------------------|
| Male        | 2,697                            | 23,013                             | 1,877                          |
| Female      | 1,282                            | 11,639                             | 1,097                          |
| Total       | 3,979                            | 34,652                             | 2,974                          |
|             | Suspected Activity Head          | Number of Days Activity was        | Number of Days Class           |
| Activities  | Injuries                         | Missed                             | Missed                         |
| Total       | 413                              | 5,793                              | 535                            |
| GRAND TOTAL | 4,392                            | 40,445                             | 3,509                          |

There was a total of 2,697 males and 1,282 females held out of practices and contests due to a "suspected" head injury, for a total of 23,013 (males) and 11,639 (females) days of missed participation. This means that the male athletes were held out an average of 8.53 days per incident, and the female athletes also were held out an average of 9.08 days per incident. This does show a good correlation to the gradual return-to-play guidelines, which indicates at a minimum a five-day to seven-day return rate. The number of days that a student missed class time still remains a low number compared to the total number of days missed in the sport or activity practice/contest.

| 2023-2024 Top 7 Head Injury Sports/Activities |                            |  |  |  |  |
|---|----------------------------|--|--|--|--|
| Sport/Activity                                | Diagnosed Head<br>Injuries |  |  |  |  |
| Football                                      | 1,269                      |  |  |  |  |
| Sideline Cheerleading                         | 300                        |  |  |  |  |
| Wrestling (B)                                 | 274                        |  |  |  |  |
| Soccer (G)                                    | 261                        |  |  |  |  |
| Soccer (B)                                    | 188                        |  |  |  |  |
| Wrestling (G)                                 | 156                        |  |  |  |  |
| Basketball (B)                                | 148                        |  |  |  |  |

| 2022-2023 Top 7 Head Injury Sports/Activities |                            |  |  |  |  |
|---|----------------------------|--|--|--|--|
| Sport/Activity                                | Diagnosed Head<br>Injuries |  |  |  |  |
| Football                                      | 1,280                      |  |  |  |  |
| Sideline Cheerleading                         | 296                        |  |  |  |  |
| Wrestling (B)                                 | 284                        |  |  |  |  |
| Soccer (G)                                    | 255                        |  |  |  |  |
| Basketball (G)                                | 230                        |  |  |  |  |
| Soccer (B)                                    | 181                        |  |  |  |  |
| Volleyball (G)                                | 162                        |  |  |  |  |

**Note:** The number of participants in the sport specific is up but the overall number of head injuries has decreased in comparison to the previous school year

| 2022-2023 Percentage of Head Injuries per Total Occurrences |                                      |  |  |  |  |
|---|--------------------------------------|--|--|--|--|
| Sport/Activity  | % of total reported Head<br>Injuries |  |  |  |  |
| Football  | 28.9%                                |  |  |  |  |
| Sideline Cheerleading                                       | 6.8%                                 |  |  |  |  |
| Wrestling (B)   | 6.2%                                 |  |  |  |  |
| Soccer (G)  | 5.9%                                 |  |  |  |  |
| Soccer (B)  | 4.3%                                 |  |  |  |  |
| Wrestling (G)   | 3.6%                                 |  |  |  |  |
| Basketball (B)  | 3.4%                                 |  |  |  |  |

| Concussion Rates per 10,000 athletic exposures<br>From High School RIO Surveillance Study |      |  |  |  |  |
|---|------|--|--|--|--|
| Sport/Activity  | Rate |  |  |  |  |
| Football  | 7.23 |  |  |  |  |
| Soccer (G)  | 5.91 |  |  |  |  |
| Sideline Cheerleading   | 5.33 |  |  |  |  |
| Wrestling (B)   | 4.85 |  |  |  |  |
| Basketball (G)  | 4.40 |  |  |  |  |
| Soccer (B)  | 2.09 |  |  |  |  |
| Volleyball (G)  | 1.66 |  |  |  |  |

MSHSAA Athletic exposure was calculated from the first day of practice to the end of Districts for that sport. This is not a true actual count of participation but very accurate assumption. Example:

Football had on the average 84 days of practice and/or contests. 84 x 21,969 participants = 1,845,396 exposures. 1,269 reported head injuries.

$$\frac{1,269}{1,845,396}$$
 =  $\frac{X}{10,000}$ 

| MSHSAA – Top 7 Concussion in Sports/Activities<br>Concussion Rates per 10,000 Athletic Exposures |          |           |  |  |  |
|--|----------|-----------|--|--|--|
| Sport/Activity   | *Rate #1 | **Rate #2 |  |  |  |
| Football   | 8.88     | 6.88      |  |  |  |
| Sideline Cheerleading  | 4.92     | 3.98      |  |  |  |
| Wrestling (B)  | 5.12     | 3.93      |  |  |  |
| Soccer (G)   | 6.01     | 4.60      |  |  |  |
| Soccer (B)   | 4.04     | 2.79      |  |  |  |
| Wrestling (G)  | 8.53     | 6.79      |  |  |  |
| Basketball (B)   | 1.89     | 1.20      |  |  |  |

<sup>\*</sup>Rate #1: Student athletes removed from participation due to suspected concussion \*Rate #2: Student athletes removed from participation due to diagnosed concussion

There were several questions asked on this year's survey:

- 1. Does your school have a local policy-expectation for collecting additional medical information for a student athlete that is longer accounted for on the new MSHSAA Medical Eligibility Form (physical) or on the Annual Documentation Requirements forms?
- 2. Has your school fully implemented the use of Wet Bulb Globe Temperature (WBGT) for navigating environmental conditions (heat/humidity) as it relates to practices and games being permitted to occur or being delayed/suspended, postponed or cancelled?
- 3. If your school has fully implemented the use of Wet Bulb Globe Temperature (WBGT), how often do you feel that your school has made modifications to practices and/or games based on WBGT readings.
- 4. Which of the following does your school use to make determinations on the suspension, postponement or cancellation of practices or games when questionable levels of heat and humidity are present?
- 5. Which of the following does your school use to meet the requirements in bylaw 3.1 for every coach/director to complete CPR/AED training?
- 6. Does your school practice/simulate your Emergency Action Plans that you have in place for each venue/facility of which you host athletic or activities?

### Below are the results from these questions:

| High Schools (9-12) and Combi  | ned Schools (7-12) Responses  |                     |
|--|---|---------------------|
| Question   | Answer  | Number of Responses |
| Does your school have a local policy-expectation for collecting additional medical information for a student athlete that is longer accounted for on the new | Yes   | 248                 |
| MSHSAA Medical Eligibility Form (physical) or on the Annual Documentation Requirements forms?  | No  | 309                 |
| Has your school fully implemented the use of Wet Bulb Globe Temperature (WBGT) for navigating environmental conditions (heat/humidity) as it relates         | Yes   | 488                 |
| to practices and games being permitted to occur or<br>being delayed/suspended, postponed or cancelled?   | No  | 69                  |
|  | Not applicable – We have not used the MSHSAA recommendation for WBGT                | 51                  |
| If your school has fully implemented the use of Wet<br>Bulb Globe Temperature (WBGT), how often do you   | We have modified our practice or game schedules several times due to a WBGT reading | 211                 |
| feel that your school has made modifications to practices and/or games based on WBGT readings?   | We have modified our practice or game schedules a few times due to a WBGT reading   | 272                 |
|  | We have never modified a practice or game schedule due to a WBGT reading            | 23                  |
|  | MSHSAA WBGT Guidelines and Recommendations  | 467                 |
| Which of the following does your school use to make determinations on the suspension, postponement or  | Heat Index  | 59                  |
| cancellation of practices or games when questionable levels of heat and humidity are present?  | Ambient Temperature   | 1                   |
|  | Weather Advisories  | 30                  |
| Which of the following does your school use to meet the requirements in bylaw 3.1 for every coach/director   | Hands On, In Person Training Setting  | 271                 |
| to complete CPR/AED training?  | On Line Training  | 286                 |
| Does your school practice/simulate your Emergency<br>Action Plans that you have in place for each  | Yes   | 332                 |
| venue/facility of which you host athletic or activities?   | No  | 225                 |

Educational materials were distributed to all member schools and are available for the public to access through our website (<a href="www.mshsaa.org">www.mshsaa.org</a>). Awareness of this serious issue has come to the forefront. Several schools have requested

an in-service to educate their coaching staff, with professionals conducting the program. Our staff, along with several others, has put programs in place to continue the educational effort and stay abreast of any new research available.

MSHSAA continues to support the Brain Injury Association of Missouri in putting together a program at various locations throughout the state of Missouri: Sports Concussions: Facts, Fallacies and New Frontiers.

MSHSAA will conduct an annual survey during each summer to collect yearlong data. The Sports Medicine Committee will evaluate the questions and the report.

# **APPENDIX A**

## 2010-2024 Timetable of Meetings

| MSHSAA Office April 28, 2010 SPOTS Medicine Advisory Committee Meeting Spots Medicine Committee SPARWAY SCHOOL District Concussion Presentation MSHSAA Office Spansors Medicine Advisory Committee Meeting Concussion Bill Capitol, Jefferson City Phone Conference - House Bill 300 Press Conference House Bill 300 Press Conference House Bill 300 Phone Conference - Louse Bill 300 Phone Bill March 7, 2011 MSHSAA Sports Medicine Advisory Committee Meeting MshSAA Office August 26, 2011 More Sports Medicine Conference St. Louis Brain Injury (MO Dept. of Health'Sr. Svc.) June 1, 2012 Mercy Sports Medicine Conference Survivory of all Injuries St. Louis Smarth Sports Medicine Conference Survivory of all Injuries St. Louis Smarth Sports Medicine Conference Survivory of all Injuries St. Louis Smarth Sports Medicine Conference Call University of Missouri Research - Survey of all Injuries St. Louse Smarth Sports Medicine Committee MshSAA Office April 3, 2012 Meeting with Dr. Hubbard, St. Luke's College of Health Sciences - Chillicothe MshSAA Office April 3, 2013 MrHS South Medicine Advisory Committee Meeting St. Luke's College of | Meeting  | Location                      | Date                   |
|--|--|-------------------------------|------------------------|
| Sports Medicine Committee   St. Louis   August 12, 2010  | MSHSAA Sports Medicine Advisory Committee Meeting                  | MSHSAA Office                 |                        |
| Farkway School District   St. Louis   August 12, 2010  |  |                               | July 6-9, 2010         |
| Concussion Presentation MSHSAA Office January 6, 2011 Concussion Bill Press Conference - House Bill 300 Press Conference - Long MSHSAA Office Press Concentration - Long MSHSAA Office Press Conference - Long MSHSAA Office Press Conference - Long MSHSAA Office Press Conference - Long MSHSAA Office Press Concentration - Long MSHSAA Office Press Con |  |                               |                        |
| MSHSAA Office   January 16, 2011   Concussion Bill   Capitol, Jefferson City   January 17, 2011   Meeting   House Bill 300   Capitol, Jefferson City   February 7, 2011   Meeting   House Bill 300   February 7, 2011   February 8, 2012   February 8, 2011   February 8, 2012   February 9, 2012   February 14, 2013   February 14, 2013   February 14, 2013   February   |  | St. Louis                     | August 12, 2010        |
| Concussion Bill Meeting – House Bill 300 Capitol, Jefferson City February 7, 2011 Phone Conference - House Bill 300 February 72, 2011 Phone Conference - House Bill 300 St. Louis Children's Hospital March 4, 2011 Phone Conference - House Bill 300 St. Louis Children's Hospital March 4, 2011 Phone Conference - House Bill 300 March 4, 2011 NFHS Summer Meeting - Sports Medicine Committee Philadelphia, Pennsylvania June 27- July 1, 2011 Concussion Meeting Stummer Meeting MSHSAA Office August 16, 2011 Concussion Meeting MSHSAA Office August 16, 2011 Concussion Meeting MSHSAA Office August 25, 2011 MSHSAA Office August 25, 2011 MSHSAA Office January 5, 2012 Conference Call - Adult Brain Injury (MO Dept. of Health/Sr. Svc.) January 19, 2012 Conference Call - Adult Brain Injury (MO Dept. of Health/Sr. Svc.) January 19, 2012 St. Louis Brain Association Meeting St. Louis March 1, 2012 Mercy Sports Medicine Conference Exertional Heat Illnesses Adult Brain Injury (MO Dept. of Health/Sr. Svc.) MSHSAA Office August 30, 2012 Loniversity of Missouri Research Survey of all Injury (MO Dept. of Health/Sr. Svc.) MSHSAA Office August 30, 2012 University of Missouri Research Survey of all Injury (MO Dept. of Health/Sr. Svc.) MSHSAA Office August 30, 2012 University of Missouri Research Survey of all Injury (MO Dept. of Health Sciences - Chillicothe MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office December 13, 2012 Meeting with Dr. Hubbard, St. Luke's College of Health Sciences MSHSAA Office December 13, 2013 University of Missouri Research - Survey of all Injuries St. Luke's College of Health Sciences - Conference Call University of Missouri Meeting Meeting Sports Medicine Committee Denver, Colorado June 24, 2013 St. Luke's College of Health Sciences - Conference Call University of Missouri Journalism - Concussion: Facts, Fallacies and New Frontiers St. Luke's College of Health Sciences - Conference Call University of Missouri Journalism - Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports  |  |                               |                        |
| Meeting - House Bill 300   February 7, 2011  |  |                               |                        |
| Phone Conference - House Bill 300 Press Conference - House Bill 300 St. Louis Children's Hospital Phone Conference - House Bill 300 NFHS Summer Meeting - Sports Medicine Committee Philadelphia, Pennsylvania NFHS Summer Meeting MSHSAA Office August 16, 2011 Concussion Meeting MSHSAA Office August 25, 2011 MSHSAA Office January 5, 2012 Conference Call - Adult Brain Injury (MO Dept. of Health/Sr. Svc.) St. Louis Brain Association Meeting Mshrow Medicine Conference Exertional Heat Illnesses Adult Brain Injury (MO Dept. of Health/Sr. Svc.) Mshrow Medicine Conference Exertional Heat Illnesses Adult Brain Injury (MO Dept. of Health/Sr. Svc.) MSHSAA Office August 30, 2012 University of Missouri Research Sciences - Chillicothe MSHSAA Office MSHSAA Office MSHSAA Office December 13, 2012 Meeting with Dr. Hubbard, St. Luke's College of Health Sciences MSHSAA Office Meeting with Dr. Hubbard, St. Luke's College of Health Sciences MSHSAA Office Meeting with Dr. Hubbard, St. Luke's College of Health Sciences MSHSAA Office Meeting with Dr. Hubbard, St. Luke's College of Health Sciences MSHSAA Office Msetting with Dr. Hubbard, St. Luke's College of Health Sciences MSHSAA Office April 3, 2013 MSHSAA Office April 6, 2013 University of Missouri Research - Survey of all Injuries Denver, Colorado June 2, 2013 MSHSAA Sports Medicine Advisory Committee Denver, Colorado June 2, 2013 MSHSAA Sports Meeting - Sports Medicine Committee Denver, Colorado June 2, 2013 MSHSAA Sports Meeting - Sports Medicine Committee Denver, Colorado June 2, 2013 MSHSAA Sports Meeting - Sports Medicine Committee Denver, Colorado June 2, 2013 MSHSAA Sports Meeting - Sports Medicine Committee St. Luke's College of Health Sciences - Chillicothe MSHSAA Office December 12, 2013 MSHSAA Sports Meeting MSHSAA Office December 12, 2013 December 12, 2013 MSHSAA Sports Meeting - Sports Concussio |  |                               |                        |
| Press Conference House Bill 300 NPHOR Conference - House Bill 300 NPHS Summer Meeting - Sports Medicine Committee NPhiladelphia, Pennsylvania NPHS Summer Meeting - Sports Medicine Committee NPHS Summer Meeting - Sports Medicine Committee NPHS AN Office NPHS Summer Meeting - Sports Medicine Committee NPHS AN Office NPHS  |  | Capitol, Jefferson City       |                        |
| Phone Conference - House Bill 300   March 7, 2011  |  |                               |                        |
| NFHS Summer Meeting - Sports Medicine Committee   Philadelphia, Pennsylvania   June 27 - July 1, 2011   Conference Call - Concussion Meeting   MSHSAA Office   August 16, 2011   MSHSAA Sports Medicine Advisory Committee Meeting   MSHSAA Office   August 25, 2011   MSHSAA Sports Medicine Advisory Committee Meeting   MSHSAA Office   August 25, 2011   MSHSAA Sports Medicine Advisory Committee Meeting   MSHSAA Office   August 25, 2011   MSHSAA Office   August 25, 2012   Deference Call - Adult Brain Injury (MO Dept. of Health/Sr. Svc.)   February 19, 2012   St. Louis Farian Association Meeting   March 30-31, 2012   Mercy Sports Medicine Conference   March 30-31, 2012   Mercy Sports Medicine Advisory Committee Meeting   MSHSAA Office   August 30, 2012   University of Missouri Research -   June 1, 2012   MISHSAA Sports Medicine Advisory Committee Meeting   MSHSAA Office   December 13, 2012   MSHSAA Sports Medicine Advisory Committee Meeting   MSHSAA Office   December 13, 2012   MSHSAA Sports Medicine Advisory Committee Meeting   MSHSAA Office   December 13, 2013   MREETING MISSOURI RESEarch - Survey of all Injuries   MSHSAA Office   December 13, 2013   MISHS Summer Meeting - Sports Medicine Committee   Denver, Colorado   June 24-28, 2013   MISHS Summer Meeting - Sports Medicine Committee   Denver, Colorado   June 24-28, 2013   MISHS Summer Meeting - Sports Medicine Committee   Denver, Colorado   June 24-28, 2013   MINEST Symmer Meeting - Sports Medicine Committee   Denver, Colorado   June 24-28, 2013   MINEST Symmer Meeting - Sports Medicine Committee   Denver, Colorado   June 24-28, 2013   MINEST Symmer Meeting - Sports Medicine Committee   Denver, Colorado   June 24-28, 2013   MINEST Symmer Meeting - Sports Medicine Advisory Committee Meeting   MSHSAA Office   December 12, 2013   MINEST Symmer Meeting - Sports Concussion: Facts, Fallacies and   Springfie   |  | St. Louis Children's Hospital |                        |
| Conference Call - Concussions   MSHSAA Office   August 16, 2011  |  |                               |                        |
| Concussion Meeting MSHSAA Office August 25, 2011 MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office January 5, 2012 Conference Call - Adult Brain Injury (MO Dept. of Health/Sr. Svc.) February 14, 2012 Conference Call - Adult Brain Injury (MO Dept. of Health/Sr. Svc.) February 14, 2012 Mercy Sports Medicine Conference Exertional Heat Illnesses Adult Brain Injury (MO Dept. of Health/Sr. Svc.) March 1, 2012 Mercy Sports Medicine Conference Exertional Heat Illnesses Adult Brain Injury (MO Dept. of Health/Sr. Svc.) MSHSAA Office August 30, 2012 University of Missouri Research Survey of all Injuries Coaches Training Meeting - Head/Spinal Injuries St. Luke's College of Health Sciences - Chillicothe MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office April 3, 2013 Brain Injury Association of Missouri - Conference Call University of Missouri Research - Survey of all Injuries MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office April 3, 2013 Brain Injury Association of Missouri - Annual Meeting Planning St. Luke's College of Health Sciences - Chillicothe Denver, Colorado June 2, 2013 MFHS Summer Meeting - Sports Medicine Committee Denver, Colorado June 24-28, 2013 Brain Injury Association of Missouri - Annual Meeting Planning St. Luke's College of Health Sciences - Chillicothe St. Luke's College of Health Sciences - Chilli |  |                               |                        |
| MSHSAA Sports Medicine Advisory Committee Meeting  |  |                               |                        |
| Conference Call - Adult Brain Injury (MO Dept. of Health/Sr. Svc.)   January 19, 2012  |  |                               |                        |
| Conference Call - Adult Brain Injury (MO Dept. of Health/Sr. Svc.)  St. Louis Brain Association Meeting  March 30-31, 2012  Mercy Sports Medicine Conference Exertional Heat Illnesses  Adult Brain Injury (MO Dept. of Health/Sr. Svc.)  MSHSAA Office  August 30, 2012  University of Missouri Research - Survey of all Injuries  Coaches Training Meeting - Head/Spinal Injuries  St. Luke's College of Health Sciences - Chillicothe  MSHSAA Office   |  | MSHSAA Office                 |                        |
| St. Louis Brain Association Meeting Mercy Sports Medicine Conference Exertional Heat Illnesses Adult Brain Injury (MO Dept. of Health/Sr. Svc.) MSHSAA Office August 30, 2012 University of Missouri Research - Survey of all Injuries Coaches Training Meeting - Head/Spinal Injuries St. Luke's College of Health Sciences - Chillicothe MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office |  |                               |                        |
| March 30-31, 2012 Exertional Heat Illnesses Exertional Heat Illnesses Adult Brain Injury (MO Dept. of Health/Sr. Svc.)  MSHSAA Office August 30, 2012 University of Missouri Research - Survey of all Injuries Coaches Training Meeting - Head/Spinal Injuries  St. Luke's College of Health Sciences - Chillicothe MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office MSHSAA Office December 13, 2012 Meeting with Dr. Hubbard, St. Luke's College of Health Sciences MSHSAA Office MSHSAA Office MSHSAA Office April 16, 2013 Brain Injury Association of Missouri - Conference Call Duriversity of Missouri Research - Survey of all Injuries Denver, Colorado June 2-28, 2013 Brain Injury Association of Missouri - Annual Meeting Planning St. Luke's College of Health Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Coaches Training Meeting St. Luke's College of Health Sciences - Chillicothe Sciences - |  | 0.1.                          |                        |
| Exertional Heat Illnesses   Adult Brain Injury (MO Dept. of Health/Sr. Svc.)   MSHSAA Office   June 1, 2012  |  | St. Louis                     | ,                      |
| Adult Brain Injury (MO Dept. of Health/Sr. Svc.)  MSHSAA Office  August 30, 2012  University of Missouri Research - Survey of all Injuries  Coaches Training Meeting - Head/Spinal Injuries  St. Luke's College of Health Sciences - Chillicothe  MSHSAA Office  April 3, 2013  Maril 1, 1gury Association of Missouri - Conference Call  University of Missouri Research - Survey of all Injuries  Notober 12, 2013  Denver, Colorado  June 24-28, 2013  St. Luke's College of Health Sciences - Chillicothe  MSHSAA Office  April 6, 2013  June 2, 2013  University of Missouri - Annual Meeting Planning  Stoney Creek Inn, Columbia September 6, 2013  Coaches Training Meeting  St. Luke's College of Health Sciences - Chillicothe  October 2, 2013  November 12, 2013  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office December 12, 2013  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office December 12, 2014  New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  MSHSAA Office December 12, 2014  St. Luke's College of Health Sciences - Chillicothe Sciences - Chill |  |                               | March 30-31, 2012      |
| University of Missouri Research - Survey of all Injuries   St. Luke's College of Health Sciences - Chillicothe   MSHSAA Sports Medicine Advisory Committee Meeting   MSHSAA Office   December 13, 2012   Meeting with Dr. Hubbard, St. Luke's College of Health Sciences   MSHSAA Office   April 3, 2013   April 16, 2013   MSHSAA Office   April 3, 2013   April 16, 2013   University of Missouri Research - Survey of all Injuries   June 2, 2013   MSHSAA Office   Denver, Colorado   June 24-28, 2013   Brain Injury Association of Missouri - Annual Meeting Planning   Stoney Creek Inn, Columbia   September 6, 2013   Sciences - Chillicothe   October 2, 2013   October 3, 2014   October 4, 2014   October 3, 2014   O   |  | MCUCAA Office                 | August 20, 2012        |
| Survey of all Injuries  Coaches Training Meeting - Head/Spinal Injuries  St. Luke's College of Health Sciences - Chillicothe  MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office MSHSAA Office MSHSAA Office MSHSAA Office MSHSAA Office MSHSAA Office April 3, 2012 Meeting with Dr. Hubbard, St. Luke's College of Health Sciences MSHSAA Office April 3, 2013 Brain Injury Association of Missouri - Conference Call University of Missouri Research - Survey of all Injuries University of Missouri Research - Survey of all Injuries NFHS Summer Meeting - Sports Medicine Committee Denver, Colorado June 24-28, 2013 St. Luke's College of Health Sciences - Chillicothe Sciences - Chi |  | WISHSAA UIIICE                |                        |
| Coaches Training Meeting - Head/Spinal Injuries  St. Luke's College of Health Sciences - Chillicothe  MSHSAA Office  MSHSAA Office  MSHSAA Office  MSHSAA Office  MSHSAA Office  MSHSAA Office  April 3, 2013  Brain Injury Association of Missouri - Conference Call  University of Missouri Research - Survey of all Injuries  NFHS Summer Meeting - Sports Medicine Committee  Brain Injury Association of Missouri - Annual Meeting Planning  Coaches Training Meeting  St. Luke's College of Health Sciences - Chillicothe  St. Luke's College of Health Sciences - Colorado  June 24-28, 2013  Brain Injury Association of Missouri - Annual Meeting Planning  St. Luke's College of Health Sciences - Chillicothe  Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillicothe Sciences - Chillico |  |                               | June 1, 2012           |
| MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office Meeting with Dr. Hubbard, St. Luke's College of Health Sciences Brain Injury Association of Missouri - Conference Call University of Missouri Research - Survey of all Injuries NFHS Summer Meeting - Sports Medicine Committee Denver, Colorado Denver, Colorado Denver, Colorado June 24, 28, 2013 Brain Injury Association of Missouri - Annual Meeting Planning Stoney Creek Inn, Columbia September 6, 2013 St. Luke's College of Health Sciences - Conference Call St. Luke's College of Health Sciences - Conference Call October 23, 2013 NFL - Chiefs - Head's Up Mom's Football Safety Clinic NFL - Chiefs - Head's Up Mom's Football Safety Clinic MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers NFHS Summer Meeting - Sports Medicine Committee Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers NFHS Summer Meeting - Sports Medicine Committee Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers NFHS Summer Meeting - Sports Medicine Committee Boston, Massachusetts June 27 - July 2, 2014 Summer's AD Workshop - Emergency Action Planning Stoney Creek Inn, Columbia October 8, 2014  MSHSAA Sports Medicine Advisory Committee Meeting Stoney Creek Inn, Columbia October 8, 2014  MSHSAA Sports Medicine Advisory Committee Meeting Stoney Creek Inn, Columbia October 8, 2014  MSHSAA Sports Medicine Advisory Committee Meeting Stoney Creek Inn, Columbia October 8, 2014  MSHSAA Sports Medicine Advisory Committee Meeting Stoney Creek Inn, Columbia  | Coaches Training Meeting - Head/Spinal Injuries                    |                               | October 12, 2012       |
| Meeting with Dr. Hubbard, St. Luke's College of Health Sciences   MSHSAA Office   April 3, 2013  | MSHSAA Sports Medicine Advisory Committee Meeting                  |                               | December 13, 2012      |
| Brain Injury Association of Missouri - Conference Call University of Missouri Research - Survey of all Injuries Denver, Colorado Stripper Meeting - Sports Medicine Committee Denver, Colorado Denver, Colorado Dune 24-28, 2013 Brain Injury Association of Missouri - Annual Meeting Planning Stoney Creek Inn, Columbia September 6, 2013 Coaches Training Meeting St. Luke's College of Health Sciences - Chillicothe St. Luke's College of Health Sciences - Chillicothe  October 23, 2013 University of Missouri Journalism - Concussion Interview - Conference Call University of Missouri Journalism - Concussion Interview - Conference Call NFL - Chiefs - Head's Up Mom's Football Safety Clinic MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office December 12, 2013 Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Medicine Committee Boston, Massachusetts June 27 - July 2, 2014 New Frontiers NFHS Summer Meeting - Sports Medicine Committee Boston, Massachusetts June 27 - July 2, 2014 Summer's AD Workshop - Emergency Action Planning Brain Injury Association of Missouri - Concussion Seminar Planning Stoney Creek Inn, Columbia October 8, 2014  MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office December 11, 2014 Brain Injury Association - Sports Concussion: Facts, Fallacies and Springfield NSHSAA Office   |  |                               |                        |
| University of Missouri Research - Survey of all Injuries  NFHS Summer Meeting - Sports Medicine Committee  Denver, Colorado  Denver, Colorado  Stoney Creek Inn, Columbia  September 6, 2013  St. Luke's College of Health Sciences - Conference Call  University of Missouri Journalism - Concussion Interview - Conference Call  NFL - Chiefs - Head's Up Mom's Football Safety Clinic  MSHSAA Sports Medicine Advisory Committee Meeting  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Medicine Committee  Boston, Massachusetts  June 27 - July 2, 2014  Summer's AD Workshop - Emergency Action Planning  Brain Injury Association of Missouri - Concussion Seminar Planning  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office  December 11, 2014  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office  December 11, 2014  Brain Injury Association - Sports Concussion: Facts, Fallacies and  November 12, 2013  November 12, 2013  November 12, 2013  November 12, 2013  MSHSAA Office  December 12, 2013  January 16, 2015   |  |                               |                        |
| NFHS Summer Meeting - Sports Medicine Committee Brain Injury Association of Missouri - Annual Meeting Planning Stoney Creek Inn, Columbia September 6, 2013 St. Luke's College of Health Sciences - Conference Call University of Missouri Journalism - Concussion Interview - Conference Call NFL - Chiefs - Head's Up Mom's Football Safety Clinic Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Medicine Committee Boston, Massachusetts June 27 - July 2, 2014 Summer's AD Workshop - Emergency Action Planning Brain Injury Association - Sports Concussion Seminar Planning Brain Injury Association - Sports Medicine Committee MSHSAA Sports Medicine Advisory Committee Meeting Stoney Creek Inn, Columbia June 24-28, 2013 Stoney Creek Inn, Columbia December 12, 2013 November 12, 2013 November 12, 2013 MSHSAA Office December 12, 2013 December 12, 2014 December 12, 2014 Springfield Junuary 27, 2014 December 12, 2014 December 12, 2014 December 12, 2014 December 11, 2015 December 2, 2013 December 3, 2013 Decembe |  |                               |                        |
| Brain Injury Association of Missouri - Annual Meeting Planning Coaches Training Meeting St. Luke's College of Health Sciences - Chillicothe St. Luke's College of Health Sciences - Conference Call University of Missouri Journalism - Concussion Interview - Conference Call NFL - Chiefs - Head's Up Mom's Football Safety Clinic MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Medicine Committee Boston, Massachusetts June 27 – July 2, 2014 Summer's AD Workshop - Emergency Action Planning Stoney Creek Inn, Columbia  MSHSAA Sports Medicine Advisory Committee Meeting MSHSAA Office December 11, 2014 Brain Injury Association - Sports Concussion: Facts, Fallacies and Springfield January 16, 2015  |  | Denver, Colorado              |                        |
| St. Luke's College of Health Sciences - Conference Call  St. Luke's College of Health Sciences - Conference Call  University of Missouri Journalism - Concussion Interview - Conference Call  NFL - Chiefs - Head's Up Mom's Football Safety Clinic  MSHSAA Sports Medicine Advisory Committee Meeting  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Medicine Committee  Boston, Massachusetts  June 27 – July 2, 2014  Brain Injury Association of Missouri - Concussion Seminar Planning  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office  December 11, 2014  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office  December 11, 2014  Springfield  Springfield  Springfield  January 16, 2015   |  |                               |                        |
| University of Missouri Journalism - Concussion Interview - Conference Call  NFL - Chiefs - Head's Up Mom's Football Safety Clinic  MSHSAA Sports Medicine Advisory Committee Meeting  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  NFHS Summer Meeting - Sports Medicine Committee  NFHS Summer Meeting - Sports Medicine Committee  Boston, Massachusetts  June 27 - July 2, 2014  Summer's AD Workshop - Emergency Action Planning  Brain Injury Association of Missouri - Concussion Seminar Planning  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office  December 11, 2014  Brain Injury Association - Sports Concussion: Facts, Fallacies and Springfield  January 16, 2015   | Coaches Training Meeting   | St. Luke's College of Health  |                        |
| University of Missouri Journalism - Concussion Interview - Conference Call  NFL - Chiefs - Head's Up Mom's Football Safety Clinic  MSHSAA Sports Medicine Advisory Committee Meeting  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  NFHS Summer Meeting - Sports Medicine Committee  NFHS Summer Meeting - Sports Medicine Committee  Boston, Massachusetts  June 27 - July 2, 2014  Summer's AD Workshop - Emergency Action Planning  Brain Injury Association of Missouri - Concussion Seminar Planning  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office  December 11, 2014  Brain Injury Association - Sports Concussion: Facts, Fallacies and Springfield  January 16, 2015   | St. Luke's College of Health Sciences - Conference Call            |                               | October 23, 2013       |
| MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Medicine Committee Boston, Massachusetts June 27 – July 2, 2014 Summer's AD Workshop - Emergency Action Planning Brain Injury Association of Missouri - Concussion Seminar Planning MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  MSHSAA Office December 11, 2014 Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers   | University of Missouri Journalism - Concussion Interview -         |                               | November 12, 2013      |
| MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Medicine Committee Boston, Massachusetts June 27 – July 2, 2014 Summer's AD Workshop - Emergency Action Planning Brain Injury Association of Missouri - Concussion Seminar Planning MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  MSHSAA Office December 11, 2014 Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers   | NFL – Chiefs - Head's Up Mom's Football Safety Clinic              | Kansas City Chiefs Facility   | December 3, 2013       |
| New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers NFHS Summer Meeting - Sports Medicine Committee Summer's AD Workshop - Emergency Action Planning Brain Injury Association of Missouri - Concussion Seminar Planning MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  NSHSAA Office December 11, 2014 Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers   |  | MSHSAA Office                 | December 12, 2013      |
| New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  NFHS Summer Meeting - Sports Medicine Committee  Summer's AD Workshop - Emergency Action Planning  Brain Injury Association of Missouri - Concussion Seminar Planning  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  MSHSAA Office  December 11, 2014  Springfield  January 16, 2015  |  | Springfield                   | January 14, 2014       |
| New Frontiers  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  NFHS Summer Meeting - Sports Medicine Committee  Summer's AD Workshop - Emergency Action Planning  Brain Injury Association of Missouri - Concussion Seminar Planning  MSHSAA Sports Medicine Advisory Committee Meeting  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  St. Louis  February 4, 2014  Stoney 27 – July 2, 2014  Stoney Creek Inn, Columbia  October 8, 2014  MSHSAA Office  December 11, 2014  Springfield  January 16, 2015   |  | Kansas City                   | January 22, 2014       |
| New Frontiers  NFHS Summer Meeting - Sports Medicine Committee  Summer's AD Workshop - Emergency Action Planning  Brain Injury Association of Missouri - Concussion Seminar Planning  MSHSAA Sports Medicine Advisory Committee Meeting  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Sound Planning  MSHSAA Office  December 11, 2014  Springfield  January 16, 2015   |  | Columbia                      | January 27, 2014       |
| NFHS Summer Meeting - Sports Medicine Committee  Summer's AD Workshop - Emergency Action Planning  Brain Injury Association of Missouri - Concussion Seminar Planning  MSHSAA Sports Medicine Advisory Committee Meeting  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  MSHSAA Sports Medicine Advisory Committee Meeting  MSHSAA Office  December 11, 2014  Springfield  January 16, 2015   | 1  | St. Louis                     | February 4, 2014       |
| Summer's AD Workshop - Emergency Action Planning  Brain Injury Association of Missouri - Concussion Seminar Planning  MSHSAA Sports Medicine Advisory Committee Meeting  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Stoney Creek Inn, Columbia  October 8, 2014  MSHSAA Office  December 11, 2014  Springfield  January 16, 2015  |  | Boston, Massachusetts         | June 27 – July 2, 2014 |
| Brain Injury Association of Missouri - Concussion Seminar Planning  Stoney Creek Inn, Columbia  October 8, 2014  MSHSAA Sports Medicine Advisory Committee Meeting  Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  Stoney Creek Inn, Columbia  October 8, 2014  December 11, 2014  Springfield  January 16, 2015  |  |                               |                        |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Springfield January 16, 2015  |  | Stoney Creek Inn, Columbia    |                        |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Springfield January 16, 2015  | MSHSAA Sports Medicine Advisory Committee Meeting                  | MSHSAA Office                 | December 11, 2014      |
|  | Brain Injury Association - Sports Concussion: Facts, Fallacies and |                               |                        |
|  |  | Indianapolis, Indiana         | January 23-25, 2015    |

| Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  | Columbia  | January 27, 2015  |
|---|---|---|
| Missouri United Schools Insurance Council - Concussion Seminar  | Lake of the Ozarks  | January 29-30, 2015   |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  | St. Louis   | February 5, 2015  |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  | Kansas City   | February 12, 2015   |
| MSHSAA Sports Medicine Advisory Committee Meeting   | MSHSAA Office   | February 18, 2015   |
| JSA/NFL Football Meeting  | Indianapolis, Indiana   | February 22, 2015   |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and<br>New Frontiers   | Cape Girardeau  | February 26, 2015   |
| JSA/NFL Football Meeting  | New York, New York  | March 26-27, 2015   |
| MIAAA Conference - Concussion Information Booth/Heads Up  | Lake Ozark  | April 10-14, 2015   |
| Sports Medicine Advisory Committee Meeting - Overuse Injuries in Baseball   | Indianapolis, Indiana   | June 8-10, 2015   |
| NFHS Summer Meeting - Sports Medicine Committee   | New Orleans, Louisiana  | June 26 – July 3, 2015  |
| Officiate Missouri Day  | St. Louis   | July 24-25, 2015  |
| SERC Sports Medicine Symposium  | Kansas City   | August 1, 2015  |
| Brain Injury Association - Statewide Conference Call  |   | August 18, 2015   |
| KBIA Radio Interview - Athletic Trainers at High School Sporting<br>Events  |   | September 18, 2015  |
| Brain Injury Association Meeting  | St. Louis   | September 23, 2015  |
| MSHSAA Sports Medicine Advisory Committee Meeting   | MSHSAA Office   | December 10, 2015   |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  | Columbia  | February 17, 2016   |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  | Cape Girardeau  | February 18, 2016   |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and<br>New Frontiers   | St. Louis   | February 22, 2016   |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and<br>New Frontiers   | Springfield   | February 25, 2016   |
| USA/NFL Football Meeting  | Indianapolis, Indianapolis  | March 21-23, 2016   |
| MIAAA Conference - Concussion Information Booth   | Lake Ozark  | April 8-12, 2016  |
| NFHS Summer Meeting - Sports Medicine Committee   | Reno, Nevada  | June 28 – July 3, 2016  |
| MSHSAA Sports Medicine Advisory Committee Meeting   | MSHSAA Office   | December 3, 2016  |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and<br>New Frontiers   | St. Louis   | January 26, 2017  |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and<br>New Frontiers   | Kansas City   | February 2, 2017  |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  | Columbia  | February 9, 2017  |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers  | Springfield   | February 23, 2017   |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and<br>New Frontiers   | Cape Girardeau  | March 2, 2017   |
| Solutions for Safety in Sports Seminar  |   | M 1 00 00 0047  |
|   | Kansas City   | March 28-29, 2017   |
| MIAAA Conference - Concussion Information Booth – Head Injury Survey Information  | Lake Ozark  | April 7-11, 2017  |
| MIAAA Conference - Concussion Information Booth – Head Injury<br>Survey Information<br>NFHS Summer Meeting - Sports Medicine Committee  | Lake Ozark  Providence, Rhode Island  | April 7-11, 2017  June 28 – July 3, 2017  |
| MIAAA Conference - Concussion Information Booth – Head Injury Survey Information NFHS Summer Meeting - Sports Medicine Committee MSHSAA Sports Medicine Advisory Committee Meeting  | Lake Ozark  Providence, Rhode Island  MSHSAA Office   | April 7-11, 2017  June 28 – July 3, 2017  September 5, 2017   |
| MIAAA Conference - Concussion Information Booth – Head Injury Survey Information NFHS Summer Meeting - Sports Medicine Committee MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers   | Lake Ozark  Providence, Rhode Island  MSHSAA Office  St. Louis  | April 7-11, 2017  June 28 – July 3, 2017  September 5, 2017  January 29, 2018   |
| MIAAA Conference - Concussion Information Booth – Head Injury Survey Information NFHS Summer Meeting - Sports Medicine Committee MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and  | Lake Ozark  Providence, Rhode Island  MSHSAA Office   | April 7-11, 2017  June 28 – July 3, 2017  September 5, 2017   |
| MIAAA Conference - Concussion Information Booth – Head Injury Survey Information NFHS Summer Meeting - Sports Medicine Committee MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and   | Lake Ozark  Providence, Rhode Island  MSHSAA Office  St. Louis  | April 7-11, 2017  June 28 – July 3, 2017  September 5, 2017  January 29, 2018   |
| MIAAA Conference - Concussion Information Booth – Head Injury Survey Information  NFHS Summer Meeting - Sports Medicine Committee  MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and   | Providence, Rhode Island MSHSAA Office St. Louis  Columbia  | April 7-11, 2017  June 28 – July 3, 2017  September 5, 2017  January 29, 2018  February 2, 2018                                     |
| MIAAA Conference - Concussion Information Booth – Head Injury Survey Information  NFHS Summer Meeting - Sports Medicine Committee  MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and  | Lake Ozark  Providence, Rhode Island  MSHSAA Office  St. Louis  Columbia  Cape Girardeau              | April 7-11, 2017  June 28 – July 3, 2017  September 5, 2017  January 29, 2018  February 2, 2018  February 6, 2018                   |
| MIAAA Conference - Concussion Information Booth – Head Injury Survey Information NFHS Summer Meeting - Sports Medicine Committee MSHSAA Sports Medicine Advisory Committee Meeting Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers Brain Injury Association - Sports Concussion: Facts, Fallacies and New Frontiers MSHSAA Sports Medicine Advisory Committee Meeting MIAAA Conference - Concussion Information Booth – Head Injury | Lake Ozark  Providence, Rhode Island  MSHSAA Office  St. Louis  Columbia  Cape Girardeau  Springfield | April 7-11, 2017  June 28 – July 3, 2017  September 5, 2017  January 29, 2018  February 2, 2018  February 6, 2018  February 8, 2018 |

| NFHS SMAC Summit  | Indianapolis, Indiana | April 21-23, 2018      |
|---|-----------------------|------------------------|
| NFHS Summer Meeting - Sports Medicine Committee                       | Chicago, Illinois     | June 27-July 3, 2018   |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | September 10, 2018     |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and    | St. Louis             | February 26, 2019      |
| New Frontiers   |                       |                        |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | February 28, 2019      |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and    | Kansas City           | March 4, 2019          |
| New Frontiers   |                       |                        |
| Sports Concussion: Facts, Fallacies and New Frontiers - Brain Injury  | Columbia              | March 11, 2019         |
| Association   |                       |                        |
| MIAAA Conference - Concussion Information Booth – Head Injury         | Lake Ozark            | April 7-9, 2019        |
| Survey Information  |                       |                        |
| NFHS Summer Meeting - Sports Medicine Committee                       | Indianapolis, Indiana | June 26-July 2, 2019   |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | September 16, 2019     |
| Brain Injury Association - Sports Concussion: Facts, Fallacies and    | Columbia              | February 7, 2020       |
| New Frontiers – Central MO  |                       |                        |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | March 15, 2020         |
| MIAAA Conference - Concussion Information Booth – Head Injury         | Lake Ozark            | Postponed – COVID19    |
| Survey Information  |                       |                        |
| NFHS Summer Meeting - Sports Medicine Committee                       | Via Zoom              | June 26 - July 2, 2020 |
| MSHSAA Sports Medicine Advisory Committee Meeting - Sports            | Via Zoom              | June 4, 2020           |
| Medicine Committee - COVID Planning Meeting                           |                       |                        |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | Via Zoom              | September 3, 2020      |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | Via Zoom              | March 25, 2021         |
| MIAAA Conference - Concussion Information Booth – Head Injury         | Lake Ozark            | April 11-13, 2021      |
| Survey Information  |                       |                        |
| NFHS Summer Meeting - Sports Medicine Committee                       | Orlando, Florida      | June 28 - July 2, 2021 |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | September 2, 2021      |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | March 24, 2022         |
| MIAAA Conference - Concussion Information Booth – Head Injury         | Lake Ozark            | April 3-5, 2022        |
| Survey Information  |                       |                        |
| NFHS Summer Meeting - Sports Medicine Committee                       | San Antonio, Texas    | June 28 - July 2, 2022 |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | September 1, 2022      |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | March 22, 2023         |
| NFHS Summer Meeting - Sports Medicine Committee                       | Seattle, Washington   | June 28-July 1, 2023   |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | August 24, 2023        |
| Brain Injury Association – Facts, Fallacies & New Frontiers – Central | MSHSAA Office         | February 29, 2024      |
| MSHSAA Sports Medicine Advisory Committee Meeting                     | MSHSAA Office         | March 20, 2023         |
| NFHS Summer Meeting - Sports Medicine Committee                       | Boston, Massachusetts | June 28-July 2, 2024   |

## **APPENDIX B**

### **MSHSAA Broadcast Email**

TO: Athletic Directors, District Athletic Directors, Athletic Trainers, School Nurses - High Schools (9-12) and

**Combined Schools (7-12)** 

FROM: Dr. Jennifer Rukstad, Executive Director - Sports Medicine SUBJECT: MSHSAA Head Injury Report/Survey: 2023-2024 SCHOOL YEAR

This email is to remind you that your school must complete information on head injuries that occur in your school district during the 2023-2024 school year in order for our state activities association to be in compliance with **House Bill 300 (Brain Injury Prevention Act)**. This information is used to produce a report that is sent to the State Capitol and posted to the Sports Medicine page at <a href="https://www.mshsaa.org">www.mshsaa.org</a>, available to all schools, parents and general public.

Head Injury Reporting System: As was the case last year, the 2023-2024 MSHSAA Head Injury Report/Sports Med Survey is again located on the MSHSAA website which allows you go into the report after each season (Fall/Winter/Spring) and record your head injury data by sports. The Head Injury Report/Sports Med Survey can be accessed by logging on to your school's home page, and selecting the link titled "Head Injury Reporting/Sports Med Survey", which is posted under the "Account" category. The MSHSAA Head Injury Report/Sports Med Survey consists of two separate tasks, (1) Head Injury Reporting tab, used to report the actual number of head injuries by sport, and (2) Sports Medicine Survey tab, used to provide feedback on Sport Medicine issues that impact interscholastic sports/activities. NOTE: Again, the neat feature about this reporting system is that you can go to the "Head Injury Reporting" tab multiple times during a school year to update your data on head injuries. For example, you can use the Head Injury Reporting tab after each sports season.... Fall, Winter, Spring to report your head injury data seasonally rather all at once in May at the conclusion of your spring season.

As in the past, the MSHSAA Head Injury Report/Sports Med Survey can be accessed and completed by the Athletic Director, Athletic Trainer, School Nurse, or a combination of this group, so long as these individuals are posted on your school's Administrator page on the MSHSAA website which allows them login access to your school home page on the MSHSAA website. Regardless of who actually completes this survey, please make sure to involve the school nurse and/or athletic trainer so that we may have the most accurate data/information accounted for in this survey. Your completion of this survey is "mandatory" in order for the MSHSAA to remain compliant with the expectations outlined in House Bill 300. The MSHSAA will be tracking the completion of this survey by each MSHSAA member school.

The 2023-2024 MSHSAA Head Injury Report/Survey is now open to submit current data/responses. The deadline for final completion is June 30, 2024.

Thanking you in advance,

Jen Rukstad MSHSAA Executive Director – Sport Medicine Missouri State High Activities Association

## SPORTS MEDICINE REMINDERS FOR ATHLETIC DIRECTORS FALL SEASON

## (NEW) Medical Emergency Action Plan (EAP) Required for Hosting Postseason

- Beginning with the 2023-2024 School Year, prior to final approval for a school to host a postseason contest/event, a Medical Emergency Action Plan (EAP) for all state series sites and venues must be confirmed/uploaded to the MSHSAA website prior to hosting. The Medical EAP shall specifically require an onsite AED and use of MSHSAA's AED Guidelines as posted on the Sports Medicine page at www.mshsaa.org. A Medical Emergency Action Plan (EAP) for the venue being used for hosting a postseason contest must be uploaded and accounted for at www.mshsaa.org. Note: An email blast will be sent to member schools with instructions for how and where to upload the Medical EAP for each of the school's contest sites/venues.
- Medical EAP's, as noted above, <u>must also include the implementation of a Pre-Event/Contest Medical Planning Meeting (Medical Timeout) that uses the "Checklist" contained in the Pre-Event/Contest Medical Planning Meeting Procedures document as posted on the Sports Medicine page at <a href="https://www.mshsaa.org">www.mshsaa.org</a>.</u>
- ❖ . This meeting should happen prior to each athletic event and at each venue when home games are held. The meeting is coordinated by the home team administrator but can be delegated to the Athletic Trainer or other qualified medical personnel. The Medical Timeout meeting should include the following: onsite administrators for both schools, medical personnel for both schools, game officials, EMS personnel if present, security/law enforcement if present, any coach who is designated as an active part of the host school's EAP, any other personnel as determined by participating schools.

## (NEW) Pre-participation Physical Evaluation Forms – Released April 2023

- Make sure that you are issuing the NEW Preparticipation Physical Forms posted under MSHSAA Resources on the Sports Medicine page at <a href="https://www.mshsaa.org">www.mshsaa.org</a>. NOTE: Per email broadcast sent out in April and May of 2023, school are now collecting the Medical Eligibility Form (page 5) of the new PPE forms.
- There are no exemptions or relief to MSHSAA bylaws requiring all students to have a current/valid physical prior to participating in <u>All Sports, Spirit/Cheer or Marching Band</u>.
- All students participating must have a valid physical prior to being allowed to practice in any manner at the start of the defined sport season. NOTE: The requirement for a student to have a valid physical during the summer participation continues to be a local school decision.
- Go to the Sports Medicine page at <a href="www.mshsaa.org">www.mshsaa.org</a> and use the following link listed under MSHSAA
  Resources to review the details of the current PPE requirements:
   <a href="https://www.mshsaa.org">-MSHSAA</a> Pre-participation Physical Evaluation Forms-Process (All Sports, Spirit & Marching Band) Revised April 2023

## (NEW) Pre-participation Documentation-Annual Requirements

- **❖** Pre-participation Documentation-Annual Requirements must now be completed/collected for <u>ALL</u> students participating in <u>ANY Sport and/or Activity</u>.
- ❖ Documentation that must be distributed to and collected from all students participating in <u>ANY sport and/or activity</u> now includes: Current Health and Injury Update, Emergency Contact Information, Parent Permission/Insurance, Student Agreement, Parent/Student Acknowledgment for Concussion Education/Materials, Parent/Student Acknowledgment of Injury/Risk Disclosure. <u>NOTE: These forms MUST be completed ANNUALLY and collected prior to a student participating.</u>
- Go to the Sports Medicine page at <a href="www.mshsaa.org">www.mshsaa.org</a> and use the following link listed under MSHSAA Resources to review the details of the current Documentation-Annual Requirements:
  -MSHSAA Pre-participation Documentation Annual Requirements (All Sports & All Activities) Revised April 2023

#### **Concussion Information and Materials**

It is mandatory that each member school (Middle Schools and High Schools) of the MSHSAA provide Concussion Education to their coaches, players and parents ANNUALLY. There are a number of different ways to meet this requirement, whether that be scheduling coaches/players/parent meetings and showing the free NFHS Concussion Education course/video or whether that be choosing to distribute Concussion Education information to each of these three groups. Several resources for Concussion Education are located on the Sports Medicine page at www.mshsaa.org.

#### **Concussion Education Resources:**

https://www.mshsaa.org/resources/PDF/A%20Parent's%20-%20Guardian's%20Guide%20to%20Concussion%20-%20April%202019.pdf

https://nfhslearn.com/courses/concussion-in-sports-2

- Concussion Return to Play Form (Mandatory): When your school has a student that has been removed from a practice or game/contest due to signs and symptoms of a concussion and is then diagnosed with a concussion, your school must use the MSHSAA Concussion Return To Play Form/Guidelines in consultation with an
- MD/DO/PAC/LAT/ARNP/Neuropsychologist in order for the student return to practice/competition. The use of this form is critical in an effort to protect the student athlete's well-being and the school's position of liability. <u>Return To Play Form:</u>

https://www.mshsaa.org/resources/PDF/CURRENT%20MSHSAA%20Concussion%20Return%20to%20Play%20Form.pdf

**Athletic Directors** must keep accurate records and documentation of concussion education for coaches, athletes and parents and be able to provide it to MSHSAA when requested.

## **Mandatory Concussion/Head Injury Reporting**

- All schools are required by HB300 to track any suspected head injuries for students who participate in sports or activities throughout the school year.
- ❖ ANNUAL HEAD INJURY REPORT/SPORTS MEDICINE SURVEY: Athletic Directors, Athletic Trainers and School Nurses MUST track any and all head injuries sustained by a student during every season for each sport and activity during the school year. During your tracking of head injuries, make sure to note following for every head injury:
  - 1. Was the head injury diagnosed as a concussion, or not a concussion?
  - 2. Was it a sport related or non-sport related head injury?
  - 3. How many days of class time was missed due to the head injury?
- NOTE: At the conclusion of the Fall, Winter and Spring sport/activity seasons, the school's Athletic Director, Athletic Trainer or School Nurse will login to their school's homepage on the MSHSAA website and under the "ADMIN" tab select the "Head Injury Reporting/Sports Med Survey" link to access the portal for entering head injury data for each sport/activity season. NOTE: In order for the Athletic Trainer or School Nurse to have login access for completing the Head Injury Report, they MUST be listed on the school's "Administrators" page as an AT or School Nurse.

## SPORTS MEDICINE REMINDERS FOR ATHLETIC DIRECTORS WINTER SEASON

## (NEW) Medical Emergency Action Plan (EAP) Required for Hosting Postseason

- Beginning with the 2023-2024 School Year, prior to final approval for a school to host a postseason contest/event, a Medical Emergency Action Plan (EAP) for all state series sites and venues must be confirmed/uploaded to the MSHSAA website prior to hosting. The Medical EAP shall specifically require an onsite AED and use of MSHSAA's AED Guidelines as posted on the Sports Medicine page at www.mshsaa.org. A Medical Emergency Action Plan (EAP) for the venue being used for hosting a postseason contest must be uploaded and accounted for at www.mshsaa.org. Note: An email blast will be sent to member schools with instructions for how and where to upload the Medical EAP for each of the school's contest sites/venues.
- Medical EAP's, as noted above, <u>must also include the implementation of a Pre-Event/Contest Medical Planning Meeting (Medical Timeout) that uses the "Checklist" contained in the Pre-Event/Contest Medical Planning Meeting Procedures document as posted on the Sports Medicine page at <a href="https://www.mshsaa.org">www.mshsaa.org</a>.</u>
- ❖ . This meeting should happen prior to each athletic event and at each venue when home games are held. The meeting is coordinated by the home team administrator but can be delegated to the Athletic Trainer or other qualified medical personnel. The Medical Timeout meeting should include the following: onsite administrators for both schools, medical personnel for both schools, game officials, EMS personnel if present, security/law enforcement if present, any coach who is designated as an active part of the host school's EAP, any other personnel as determined by participating schools.

## (NEW) Pre-participation Physical Evaluation Forms – Released April 2023

- ❖ Make sure that you are issuing the NEW Preparticipation Physical Forms posted under MSHSAA Resources on the Sports Medicine page at <a href="https://www.mshsaa.org">www.mshsaa.org</a>. NOTE: Per email broadcast sent out in April and May of 2023, school are now collecting the Medical Eligibility Form (page 5) of the new PPE forms.
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   MSHSAA Pre-participation Physical Evaluation Forms-Process (All Sports, Spirit & Marching Band) Revised April 2023

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- ❖ Documentation that must be distributed to and collected from all students participating in <u>ANY sport and/or activity</u> now includes: Current Health and Injury Update, Emergency Contact Information, Parent Permission/Insurance, Student Agreement, Parent/Student Acknowledgment for Concussion Education/Materials, Parent/Student Acknowledgment of Injury/Risk Disclosure. <u>NOTE: These forms MUST be completed ANNUALLY and collected prior to a student participating.</u>
- ❖ Go to the Sports Medicine page at <u>www.mshsaa.org</u> and use the following link listed under MSHSAA Resources to review the details of the current Documentation-Annual Requirements:
  -MSHSAA Pre-participation Documentation Annual Requirements (All Sports & All Activities) Revised April 2023

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#### **Concussion Education Resources:**

https://www.mshsaa.org/resources/PDF/A%20Parent's%20-%20Guardian's%20Guide%20to%20Concussion%20-%20April%202019.pdf

https://nfhslearn.com/courses/concussion-in-sports-2

- Concussion Return to Play Form (Mandatory): When your school has a student that has been removed from a practice or game/contest due to signs and symptoms of a concussion and is then diagnosed with a concussion, your school must use the MSHSAA Concussion Return To Play Form/Guidelines in consultation with an
- MD/DO/PAC/LAT/ARNP/Neuropsychologist in order for the student return to practice/competition. The use of this form is critical in an effort to protect the student athlete's well-being and the school's position of liability. <u>Return To Play Form:</u>
  - https://www.mshsaa.org/resources/PDF/CURRENT%20MSHSAA%20Concussion%20Return%20to%20Play%20Form.pdf
- **Athletic Directors** must keep accurate records and documentation of concussion education for coaches, athletes and parents and be able to provide it to MSHSAA when requested.

## **Mandatory Concussion/Head Injury Reporting**

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- ❖ ANNUAL HEAD INJURY REPORT/SPORTS MEDICINE SURVEY: Athletic Directors, Athletic Trainers and School Nurses MUST track any and all head injuries sustained by a student during every season for each sport and activity during the school year. During your tracking of head injuries, make sure to note following for every head injury:
  - 1. Was the head injury diagnosed as a concussion, or not a concussion?
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- NOTE: At the conclusion of the Fall, Winter and Spring sport/activity seasons, the school's Athletic Director, Athletic Trainer or School Nurse will login to their school's homepage on the MSHSAA website and under the "ADMIN" tab select the "Head Injury Reporting/Sports Med Survey" link to access the portal for entering head injury data for each sport/activity season. NOTE: In order for the Athletic Trainer or School Nurse to have login access for completing the Head Injury Report, they MUST be listed on the school's "Administrators" page as an AT or School Nurse.

## **Emergency Action Planning Guide**

- On the MSHSAA web site under Sports Medicine is information for your school to set up and implement the "Anyone Can Save a Life" program. This program is free of charge. If you have any question, please contact MSHSAA.
- It is absolutely necessary that each member school implements an Emergency Action Plan for each sport, activity and venue at your school. The MSHSAA promotes to our schools the program titled "ANYONE CAN SAVE A LIFE", which is a highly effective Emergency Action Plan Program being used at the middle school and high school level across the country.
- **Emergency Action Planning:** <a href="http://www.mshsaa.org/resources/pdf/emergencyPlanning.pdf">http://www.mshsaa.org/resources/pdf/emergencyPlanning.pdf</a>

## **Wrestling Weight Management Program**

- **❖** All Wrestling schools must use a certified weight assessor to complete weight assessments on their wrestlers prior to a wrestler competing in competition.
- All new weight assessors must be certified during September/October preceding the 2023-2024 wrestling season.
- See Wrestling page at <a href="https://www.mshsaa.org">www.mshsaa.org</a> for more details regarding the mandatory Wrestling Weight Management Program.

## **Online Sports Medicine Information**

All Sports Medicine information is located online by going to the MSHSAA website (<a href="www.mshsaa.org">www.mshsaa.org</a>) and clicking on the Sports Medicine tab in the blue-ribbon bar.

## SPORTS MEDICINE REMINDERS FOR ATHLETIC DIRECTORS SPRING SEASON

## (NEW) Medical Emergency Action Plan (EAP) Required for Hosting Postseason

- Beginning with the 2023-2024 School Year, prior to final approval for a school to host a postseason contest/event, a Medical Emergency Action Plan (EAP) for all state series sites and venues must be confirmed/uploaded to the MSHSAA website prior to hosting. The Medical EAP shall specifically require an onsite AED and use of MSHSAA's AED Guidelines as posted on the Sports Medicine page at www.mshsaa.org. A Medical Emergency Action Plan (EAP) for the venue being used for hosting a postseason contest must be uploaded and accounted for at www.mshsaa.org. Note: An email blast will be sent to member schools with instructions for how and where to upload the Medical EAP for each of the school's contest sites/venues.
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https://nfhslearn.com/courses/concussion-in-sports-2

- Concussion Return to Play Form (Mandatory): When your school has a student that has been removed from a practice or game/contest due to signs and symptoms of a concussion and is then diagnosed with a concussion, your school must use the MSHSAA Concussion Return To Play Form/Guidelines in consultation with an
- MD/DO/PAC/LAT/ARNP/Neuropsychologist in order for the student return to practice/competition. The use of this form is critical in an effort to protect the student athlete's well-being and the school's position of liability. Return To Play Form:

https://www.mshsaa.org/resources/PDF/CURRENT%20MSHSAA%20Concussion%20Return%20to%20Play%20Form.pdf

**Athletic Directors** must keep accurate records and documentation of concussion education for coaches, athletes and parents and be able to provide it to MSHSAA when requested.

## **Mandatory Concussion/Head Injury Reporting**

- All schools are required by HB300 to track any suspected head injuries for students who participate in sports or activities throughout the school year.
- **❖ ANNUAL HEAD INJURY REPORT/SPORTS MEDICINE SURVEY**: Athletic Directors, Athletic Trainers and School Nurses MUST track any and all head injuries sustained by a student during every season for each sport and activity during the school year. During your tracking of head injuries, make sure to note following for every head injury:
  - 1. Was the head injury diagnosed as a concussion, or not a concussion?
  - 2. Was it a sport related or non-sport related head injury?
  - 3. How many days of class time was missed due to the head injury?
- ❖ NOTE: At the conclusion of the Fall, Winter and Spring sport/activity seasons, the school's Athletic Director, Athletic Trainer or School Nurse will login to their school's homepage on the MSHSAA website and under the "ADMIN" tab select the "Head Injury Reporting/Sports Med Survey" link to access the portal for entering head injury data for each sport/activity season. NOTE: In order for the Athletic Trainer or School Nurse to have login access for completing the Head Injury Report, they MUST be listed on the school's "Administrators" page as an AT or School Nurse.

## **Emergency Action Planning Guide**

- On the MSHSAA web site under Sports Medicine is information for your school to set up and implement the "Anyone Can Save a Life" program. This program is free of charge. If you have any question, please contact MSHSAA.
- It is absolutely necessary that each member school implements an Emergency Action Plan for each sport, activity and venue at your school. The MSHSAA promotes to our schools the program titled "ANYONE CAN SAVE A LIFE", which is a highly effective Emergency Action Plan Program being used at the middle school and high school level across the country.
- **Emergency Action Planning:** <a href="http://www.mshsaa.org/resources/pdf/emergencyPlanning.pdf">http://www.mshsaa.org/resources/pdf/emergencyPlanning.pdf</a>

## Wet Bulb Globe Thermometers (WBGT)

- The use of a Wet Bulb Globe Thermometer (WBGT) is the recognized practice for determining unsafe heat/humidity conditions for all outdoor sports, marching band and spirit. Note: Indoor sports, such as Volleyball, are subject to these guidelines "if" air condition facilities are not used.
- ❖ WBGT Recommendations and Guidelines, Background and Rationale are posted on the Sports Medicine page at www.mshsaa.org.

## **Baseball Pitching Limitations**

- Each coach will be required to enter pitch counts for all pitchers at all levels into the MSHSAA website within 24 hours of the completion of all games.
- For all levels, no pitcher may pitch more than 2 consecutive days without at least one day of rest prior to their third pitching appearance.
- See MSHSAA Baseball Manual for additional details regarding pitching limitations.

#### CONCUSSION EDUCATION AND MANAGEMENT PROTOCOL

#### **Education**

Concussions are common in sports. The Missouri State High School Activities Association (MSHSAA) believes that education of coaches, officials, athletes, and their parents or guardians are key to safely returning a student athlete to play. Appropriate immediate care after a suspected concussion, and follow up incorporating a multi-disciplinary team that includes the coach, parent or guardian, athlete's physician, team physician and athletic trainer (if available), and school representatives, also are important for the proper management of a sport-related concussion.

Each school district will receive educational materials for coaches, athletes, parents, and school officials, required forms for student athlete participation and parent/guardian consent, and recommended medical clearance forms for return to play.

Annually, MSHSAA member school districts will ensure that every coach, student athlete, and parents or guardians of a student athlete completes a concussion and head injury information sheet and returns it to the school district prior to the student athlete's participation in practice or competition. Officials will receive training from their parent organization. Each official's organization will require annual concussion training and maintain a signed head injury information sheet for each official.

#### Recognition and Evaluation of the Athlete with a Concussion

- 1. Recognition of the signs and symptoms of a concussion is important. Every member of the team-athlete, teammates, coaches, parents or guardians, officials, athletic trainers, and team physicians have a duty to report a suspected concussion. Not all school districts have medical personnel available to cover every practice and competition; therefore, the coach is the person in the best position to protect the player and must be aware that not all student athletes will be forthcoming about their injury.
- 2. An official shall not be responsible for making the diagnosis of a concussion. The official can assist coaches and medical staff by recognizing signs and symptoms of a concussion and informing the coach and medical staff of their concerns.
- 3. The coach, (Athletic Trainer) AT, or physician on site should evaluate the athlete in a systemic fashion:
  - a. Assess for airway, breathing, and circulation (basic CPR assessment)
  - b. Assess for concussion
    - i. Any unconscious athlete should be assumed to have a severe head and/or neck injury and should have their cervical spine immobilized until a determination can be made that the cervical spine has not been injured. If no medical professional can make the assessment, the athlete should be transported to an appropriate emergency care facility.
    - ii. A conscious athlete with no neck pain can be further evaluated on the sideline.
- 4. An athlete experiencing ANY of the signs/symptoms of a concussion should be immediately removed from play. Signs/Symptoms of a concussion include:

| PHYSICAL             | COGNITIVE                       | <b>EMOTIONAL</b> |
|----------------------|---------------------------------|------------------|
| Headache             | Feeling mentally "foggy"        | Irritability     |
| Nausea/Vomiting      | Feeling slowed down             | Sadness          |
| Dazed/Stunned        | Difficulty concentrating        | More emotional   |
| Balance problems     | Difficulty remembering          | Nervousness      |
| Visual problems      | Forgetful of recent information |                  |
| Fatigue              | Confused about recent events    |                  |
| Sensitivity to light | Answers questions slowly        |                  |
| Sensitivity to noise | Repeats questions               |                  |

#### 5. Evaluation

a. Following any first aid management, the medical team, or coach in the absence of medical personnel, should assess the athlete to determine the presence or absence of a concussion. The current version of the Sport Concussion Assessment Tool (SCAT) is an assessment tool that is readily available and can assist with the

assessment. The athlete should be monitored for worsening or change in signs and symptoms over the next 24 hours. Instructions should be given to the parent or guardian as to signs and symptoms that may require further or more emergent evaluation.

#### 6. Management of a Concussion and Return to Play

- a. An athlete determined to have a concussion or have concussion-like symptoms will be removed from practice or competition and is not allowed to return to practice or competition that same day.
- b. If an athlete displays concussion-like signs or symptoms, the athlete should be assumed to have a concussion until further medical evaluation can occur. "WHEN IN DOUBT, SIT THEM OUT!"
- c. Written clearance from a physician (MD or DO), Advanced Nurse Practitioner in written collaborative practice with a physician, Certified Physician Assistant in written collaborative practice with a physician, Athletic Trainer or Neuropsychologist in written supervision of a physician must be provided prior to return to play.
- d. Following a concussion, current accepted guidelines on physical and cognitive activity should be practiced until symptoms have resolved.
- e. An athlete must be asymptomatic at rest and with exertion prior to return to play
- f. A graduated return to play progression should be followed to guide return to activity following medical clearance as outlined on the MSHSAA Concussion Return to Play form.



## MISSOURI STATE HIGH SCHOOL ACTIVITIES ASSOCIATION

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