



YOUTH SPORTS RELATED CONCUSSION

SOURCES

70 Okl. St. §24-155. Sports-Related Head Injuries.

Arkansas Code §6-18-708. Health and Safety in Public Schools.

Bandte A., Fritzsche FS., et al. (2017). Sports-Related Traumatic Brain Injury with and without Helmets in Children. *World Neurosurgery* 111:e434-e439. <https://doi.org/10.1016/j.wneu.2017.12.094>

Belanger H., Vanderploeg R. (2005). The neuropsychological impact of sports-related concussion: A meta-analysis. *Journal of the International Neuropsychological Society* 11:345-357. doi 10.1017/S1355617705050411

Bier G., Bongers M., et al. (2017). Impact of helmet use in equestrian-related traumatic brain injury: a matched-pairs analysis. *British Journal of Neurosurgery* 32(1):37-43. doi 10.1080/02688697.2017.1409874

Broglio S., Cantu R., et al. (2014). National Athletic Trainers' Association Position Statement: Management of Sports Concussion. *Journal of Athletic Training* 49(2):245-265. doi 10.4085/1062-6050-49.1.07

CDC. (2015). Concussion at Play: Opportunities to Reshape the Culture Around Concussion. Available at https://www.cdc.gov/headsup/pdfs/resources/Concussion_at_Play_Playbook-a.pdf

CDC. (2015). Get a Heads Up on Concussion in Sports Policies. Available at <https://www.cdc.gov/headsup/pdfs/policy/HeadsUpOnConcussionInSportsPolicies-a.pdf>

CDC. (2015). Implementing Return to Play: Learning from the Experience of Early Implementers. Available at https://www.cdc.gov/headsup/pdfs/policy/RTP_Implementation-a.pdf

Connor T., Clark JM., et al. (2019). Do equestrian helmets prevent concussion? A retrospective analysis of head injuries and helmet damage from real-world equestrian accidents. *Sports Medicine* 5:19. <https://doi.org/10.1186/s40798-019-0193-0>

Cuff S., Coxo K., et al. (2019). Concussion clinic presentation and symptom duration for pediatric sports related concussions following Ohio concussion law. *Research in Sports Medicine* 27(1):11-20. <https://doi.org/10.1080/15438627.2018.1502186>

Emery C., Black A., et al. (2017). What strategies can be used to effectively reduce the risk of concussion in sport? A systematic review. *Br J Sports Med* 51:978-984. <http://dx.doi.org/10.1136/bjsports-2016-097452>

Florida Stat §773.06. Equine Activities.

Gibson T., Herring S., et al. (2014). Analyzing the Effect of State Legislation on Health Care Utilization for Children With Concussion. *JAMA Pediatrics* 169(2):163-168. doi 10.1001/jamapediatrics.2014.2320

Giza C., Kutcher J., et al. (2013). Summary of evidence-based guideline update: Evaluation and management of concussion in sports. *Neurology* 80:2250-2257. doi 10.1212/WNL.0b013e31828d57dd

Halstead M., Walter K., et al. (2018). Sports Related Concussion in Children and Adolescents. *Pediatrics* 142(6):e20183074. <https://doi.org/10.1542/peds.2018-3074>

Harmon K., Drezner J., et al. (2012). American Medical Society for Sports Medicine position statement: concussion in sport. *Br J Sports Med* 47:15-26. doi 10.1136/bjsports-2012-091941

Herring S., Cantu R., et al. (2011). Concussion (Mild Traumatic Brain Injury) and the Team Physician: A Consensus Statement-2011 Update. *Journal of the American College of Sports Medicine*. doi 10.1249/MSS.0b013e3182342e64

Ji M., Gilchick R., et al. (2006). Trends in helmet use and head injuries in San Diego County: The effect of bicycle helmet legislation. *Accid Anal Prev* 38(1):128-34. <https://doi.org/10.1016/j.aap.2005.08.002>

Keenan H., Bratton S. (2006). Epidemiology and Outcomes of Pediatric Traumatic Brain Injury. *Dev Neurosci* 28:256-263. Dio 10.1159/000094152

King D., Brughelli M., et al. (2014). Assessment, Management and Knowledge of Sports-Related Concussions: Systematic Review. *Sports Med* 44:449-471. doi 10.1007/s40279-013-0134-x

Kozolowski K., Leddy J., et al. (2007). Use of the ICECI and ICD-10 E-Coding structures to evaluate causes of head injury and concussion from sport and recreation participation in a school population. *Neuro Rehabilitation* 22(3):191-198.

LaRoche A., Nelson L., et al. (2016). Sports-Related Concussion Reporting and State Legislative Effects. *Clin J Sports Med* 26(1):33-9. doi 10.1097/JSM.0000000000000192.

Levadnyi I., Awrejcewicz J., et al. (2018). Finite Element Analysis of Impact for Helmeted and Non-helmeted Head. *J Med Biol Eng* 38:587-595. <https://doi.org/10.1007/s40846-017-0324-3>

Lowery K. (2015). Return-to-Learn: Academic Reentry for Student Athletes Recovering from Sports-Related TBI. Network for Public Health Law Issue Brief. Available at https://www.networkforphl.org/_asset/gkb1iy/Sports-Related-TBI-RTL-Issue-Brief.pdf

Lowrey K. (2017). Summary Matrix of State Laws Addressing Concussions in Youth Sports. The Network for Public Health Law. Available at https://www.networkforphl.org/_asset/7xwh09/Sports-Concussion-Table.pdf

Marar M., McLvain N.M., et al. (2012). Epidemiology of Concussions Among United States High-school Athletes in 20 Sports. *The American Journal of Sports Medicine*, 40(4): 747-755.

Markowitz S., Chatterji P. (2015). Effects of Bicycle Helmet Laws on Children's Injuries. *Health Econ* 24:26-40. doi 10.1002/hec.2997

McCroly P., Meeuwisse W., et al. (2013). Consensus Statement on Concussion in Sports-The 4th International Conference on Concussion in Sports Held in Zurich. *Concussion in Sport Group* 5:255-279. <http://dx.doi.org/10.1016/j.pmrj.2013.02.012>

McGuire T., Pfaller A., et al. (2018). The Influence of Athletic Trainers on the Incidence and Management of Concussions in High School Athletes. *Journal of Athletic Training* 53(11):1017-1024. doi 10.4085/1062-6050-209-18

MHSAA. (2018). MHSAA School Safety Protocols Athlete-Coach-Spectator Participation. Available at <https://www.misshsaa.com/2018/07/18/mhsaa-school-safety-protocols-for-athlete-coach-spectator-participation/>

Miss. Code Ann. §37-24-1. Mississippi Youth Concussion Law.

Mississippi State University Extension. (2018). Safety Awareness in Mississippi 4-H Horse Programs. Available at http://extension.msstate.edu/sites/default/files/publications/publications/P3304_web.pdf

National Athletic Trainers' Association. (2009). Mandating Athletic Trainers in High Schools. HS Mandate White Paper. Available at <https://www.nata.org/sites/default/files/mandating-athletic-trainers-in-high-schools.pdf>

NCAA Sports Science Institute. (2016) Interassociation Consensus: Diagnosis and Management of Sports-Related Concussion Best Practices. Available at https://www.ncaa.org/sites/default/files/SSI_ConcussionBestPractices_20170616.pdf

- NCSL. (2018). Traumatic Brain Injury Legislation. Available at <http://www.ncsl.org/research/health/traumatic-brain-injury-legislation.aspx>
- NFL Head, Neck and Spine Committee's Concussion Diagnosis and Management Protocol. (2018). Available at <https://www.playsmartplaysafe.com/wp-content/uploads/2018/08/nfl-concussion-protocol-2018.pdf>
- Noble J., Hesdorffer D. (2013). Sports-Related Concussions: A Review of Epidemiology, Challenges in Diagnosis, and Potential Risk Factors. *Neurology Rev* 23:273-284. doi 10.1007/s11065-013-9239-0
- Savitsky B., Givon A., et al. (2016). Traumatic brain injury: It is all about definition. *Brain Injury*. 30 (10): 1194-1200. doi 10.1080/02699052.2016.1187290
- Selassie A., Wilson D., et al. (2013). Incidence of sports-related traumatic brain injury and risk factors of severity: a population-based epidemiologic study. *Ann Epidemiol* 23(12):750-756. doi 10.1016/j.annepidem.2013.07.022
- Short S., Fenton S., et al. (2018). Helmet under utilization by children during equestrian events is associated with increased traumatic brain injury. *Journal of Pediatric Surgery* 53:545-547. <http://dx.doi.org/10.1016/j.jpendsurg.2017.03.043>
- Sone J., Kondziolka D., et al. (2017). Helmet efficacy against concussion and traumatic brain injury: a review. *J Neurosurg* 126:768-781. doi 10.3171/2016.2.JNS151972
- Theodore J., Theodore S., et al. (2017). Pediatric horse-related trauma. *Journal of Pediatrics and Child Health* 53:543-550. doi 10.1111/jpc.13471
- Tomei K., Doe C., et al. (2012). Comparative analysis of state-level concussion legislation and review of current practices in concussion. *Neurosurg Focus* 33(6):E11. <http://thejns.org/doi/abs/10.3171/2012.9.FOCUS12280>
- Yang J., Comstock D., et al. (2017). New and Recurrent Concussions in High-School Athletes Before and After Traumatic Brain Injury Laws, 2005-2016. *AJPH* 107(12). doi 10.2105/AJPH.2017.304056
- Zuckerman S., Morgan C., et al. (2015). Functional and Structural Traumatic Brain Injury in Equestrian Sports: A Review of the Literature. *World Neurosurg* 83(6):1098-1113. <http://dx.doi.org/10.1016/j.wneu.2014.12.030>

Incidences of concussions in Mississippi were determined using the Mississippi Hospital Discharge Data System using ICD-9 and 10 codes compiled from an extensive literature review on codes clinically associated with concussions for ages 4 - 19 between January 2015 and December 2018.

Center *for* Mississippi Health Policy

Plaza Building, Suite 700
120 N. Congress Street
Jackson, MS 39201

Phone 601.709.2133
Fax 601.709.2134

www.mshealthpolicy.com
 @mshealthpolicy