

## Objectives

Definition

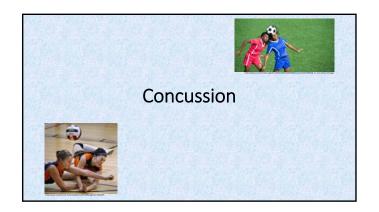
Symptoms

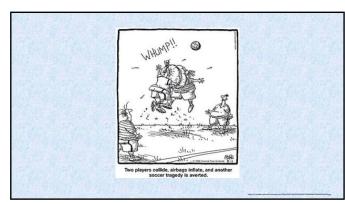
Evaluation

Treatment

Describe current concussion updates nationally and within the state of Florida Guidelines

Outline the guidelines that Andrews Institute has for concussions

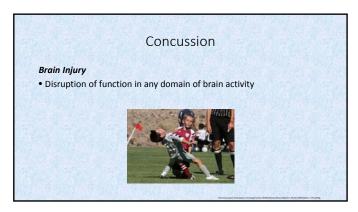


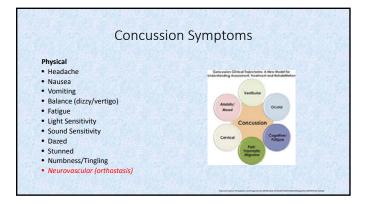


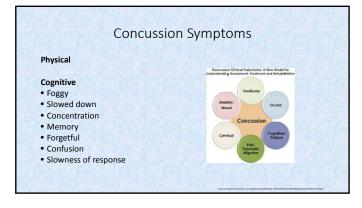
• Shane Morris concussion











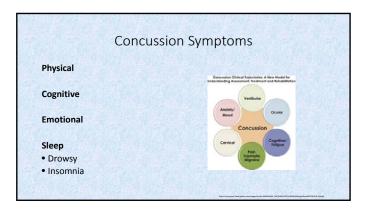
Concussion Symptoms

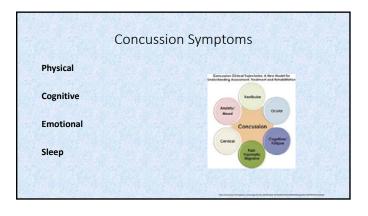
Physical

Cognitive

Emotional

Inritable
Sad
More emotional
Nervous





Diagnosis

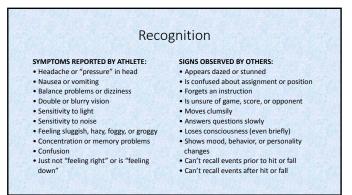
Clinical diagnosis

No gold standard

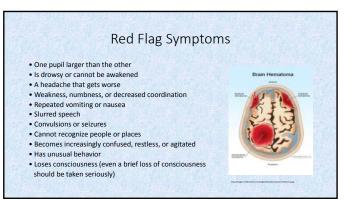
Mechanism of Injury

Sideline vantage point beneficial
Football – press box vantage point may be beneficial

# Recognition Head Collisions • Another Athlete • Ground or Floor • Other Objects Body Collision • Whiplash phenomena





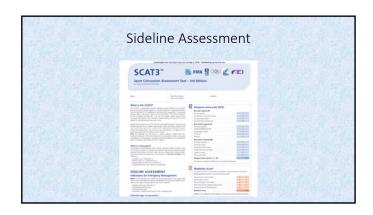


### Clinical Pearl

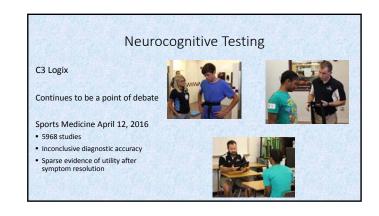
Removal from field of play for evaluation

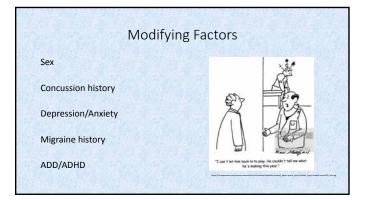
- Value of having a place without distractions
- Greatest value is removing the athlete from presence of teammates, fans, coaches
- Athlete feels more privacy to be honest in describing what she/he feels
- Applicable to other significant injuries (pregame determinations)

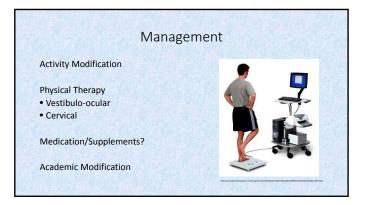
Wrestling adding injury timeouts & ability to remove from the mat



## Physician Evaluation Mechanism of Injury Post Injury Symptoms Patient Family Teammates Coaches Physical Exam Neurocognitive Testing



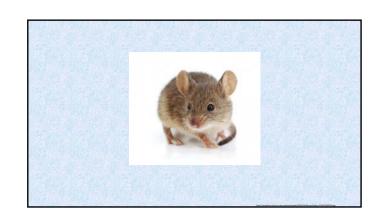


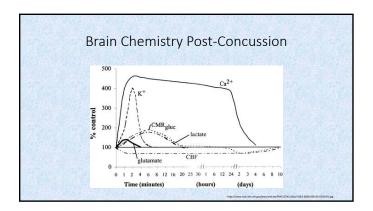


## Management Remain out of class until able to tolerate 30 minutes of light cognitive activity Then may return to classroom. Maximum of 30-45 minutes of cognitive activity followed by 15 minutes of rest Adjustments made by healthcare professionals collaborating with academic faculty/staff Symptom free (rest, classroom, activity)Off of medications Asymptomatic through progression Progression modifications

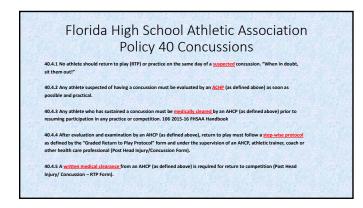
**Return to Learn** 

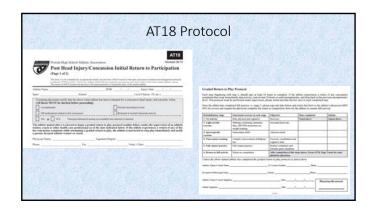
**Return to Play** 





## Florida High School Athletic Association Policy 40 Concussions 40.1.2 When you suspect that a player has a concussion, follow the "Heads Up" 4-step Action Plan: • Remove the athlete from play. • Ensure that the athlete is evaluated by an appropriate health-care professional. $\bullet$ $\underline{\text{Inform}}$ the athlete's parents or guardians about the possible concussion and give them information on concussion • <u>Keep the athlete out of play</u> the day of the injury and until an appropriate health-care professional says he or she is symptom-free and gives the okay to return to activity.







### Florida High School Athletic Association Policy 40 Concussions

### 40.7 Sanctions on Coaches

40.7.1 Level 1 Suspension. A head coach who commits a violation of any condition listed in Policy 40 will be ineligible to coach or attend the next contest, at any level, for a minimum of the next two (2) contests during the period of suspension, in all sports except football. For football, the coach will be ineligible for a minimum of one (1) football game; or

40.7.2 Level 2 Suspension. A head coach who receives a second Level 1 Suspension due to a violation of any condition listed in Policy 40, or commits multiple violations in Policy 40 will be ineligible to coach or attend any interscholastic athletic contest in any sport, at any level, for a period of up to six (6) weeks; or

40.7.3 Level 3 Suspension. A head coach who receives a second Level 2 Suspension for violating any condition of Policy 40 or commits an egregious violation of Policy 40, as determined in the sole discretion of the Executive Director, will be ineligible to coach or attend any interscholastic athletic contest in any sport for a period of up to one (1) year.

### College Athletics

January 2015

**Division I Autonomy Conferences** 

ie, Power 5: ACC, Big Ten, Big Twelve, PAC 12, SEC

Concussion Safety Protocol Legislation **Concussion Safety Protocol Committee** 

### **Evaluating Practice and Technique**

### Big 12

• 32% reduction in football concussion (2013-15)

- Head injury evaluation time outs separate from general injury & blood time. Ability to remove from mat for eval
- · Practice modifications
  - Contact w/ opponent 60%:Contact with floor 30%
     Takedown 52%:Sparring 20%

### FL HS FB policy

Live contact restrictions

### Relevant Guidelines to Review

Aubry M et al. Summary and agreement statement of the first international conference on concussion in sport, Vienna 2001. Br J Sports Med 2002; 36:6–10

McCrory P et al. Summary and agreement statement of the  $2^{\rm nd}$  international conference on concussion in sport, Prague 2004. Clin J Sport Med Volume 15, Number 2, March 2005

McCrory P et al. Consensus statement on concussion in sport – the 3<sup>rd</sup> international conference on concussion in sport held in Zurich, November 2008

McCrory P, Meeuwisse WH, Aubry M, et al. Consensus statement on concussion in sport: the 4<sup>th</sup> international conference on concussion in sport held in Zurich, November 2012. Br J Sports Med 2013; 47:250–258 Harmon KG, Drezner JA, Gammons M, et al. American medical soceity for sports medicine position statement: concussion in sport. Br J Sports Med 2013, 47, 15–26

Florida High School Athletic Association (FHSAA) Health & Wellness Policies. (https://www.fhsaa.org/departments/health)

FHSAA Concussion Policy (https://www.fhsaa.org/sites/default/files/attachments/2015/12/18/node-23154/fhaa\_concussion\_policy.pdf)

### References

Giza et al. The Neurometabolic Cascade of Concussion. J Athl Train. 2001 Jul-Sep; 36(3): 228-235.

http://bjsm.bmj.com/content/47/5/259.full.pdf

http://www.cdc.gov/headsup/pdfs/custom/headsupconcussion fact sheet coaches.pdf

 $http://childrens national.org/^\sim/media/cnhs-site/files/departments/score/score\_325.ashx?la=en$ 

