Head Games: The coach and head injury



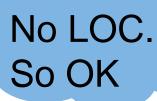
Donald T. Kirkendall

FIFA Medical Assessment and Research Centre

Duke Center for Learning Health Care

Duke Sports Medicine





Helmets work

Next one > this one



ICD-9-CM Codesa	Description	
Initially recommended for use, regardless of survival status		
800.0-801.9	Fracture of vault or base of the skull	
803.0-804.9	Other and unqualified and multiple fractures of the skull	
850	Concussion	
851	Cerebral laceration and contusion	
852	Subarachnoid/ subdural, extradural hemorrhage after injury	
853	Other/ unspecified intracranial hemorrhage after injury	
854	Intracranial injury of other and unspecified nature	
Subsequently recommended for inclusion, regardless of survival status ^c		
950.1-950.3	Injury to the optic chiasm, optic pathways, or visual cortex	
959.01	Head injury, unspecified	
995.55	Shaken Infant Syndrome	
Recommended for inclusion, but only for fatal events identified from death certificates		
873.0-873.9	Other open wound of head	
905.0	Late effect of fracture of skull and face bones	
907.0	Late effect of intracranial injury without mention of skull fracti	ure























































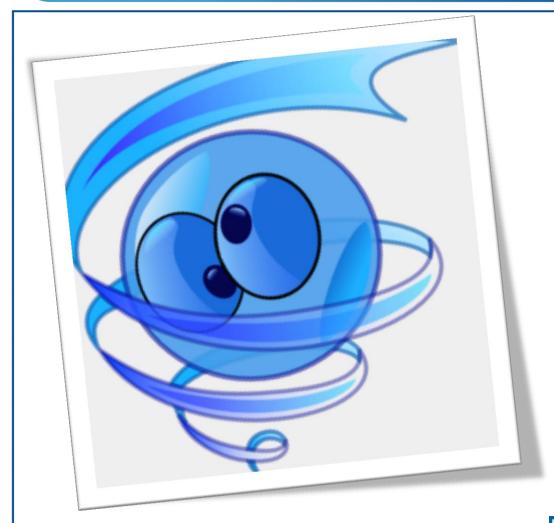
















Traumatically induced transient disturbance of brain function . . . (aka MTBI, albeit on the low severity end of spectrum) . . . Self limited in duration and resolution.

All concussions are MTBI, but not all MTBI are concussions



Cognitive

Emotional

Physical

'foggy'

Irritable

Headache

Slowed down

Sad

Nausea

Concentration

Remembering

More emotional

Vomiting

Forgetful

nervousness

Balance

Confused

Dizzy

Answers slowly

Vision

Answers slowly

Fatigue

Repeats Q's

Light/noise sensitive

Numb/tingling

Dazed/stunned

Sleep

Drowsiness

Sleep more

Sleep less

Difficulty falling asleep



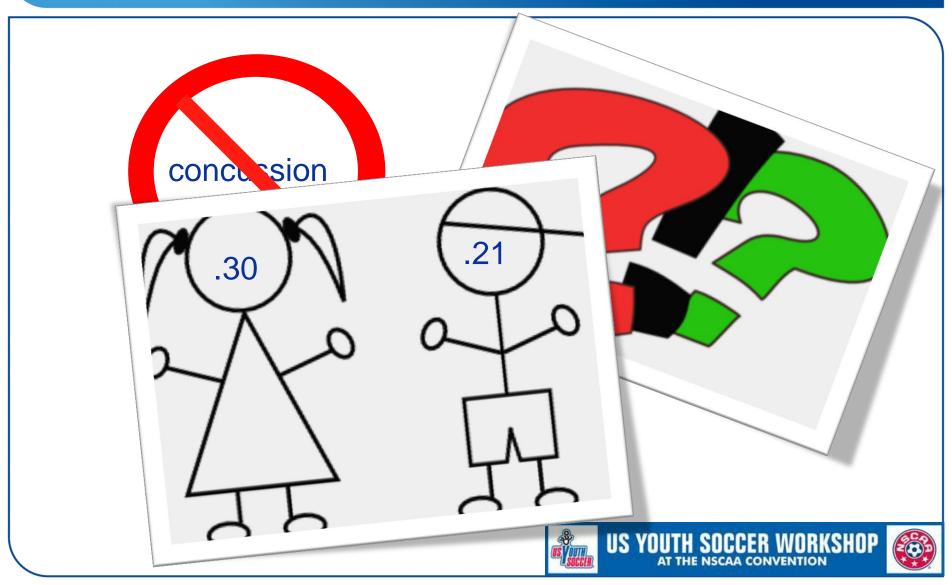




















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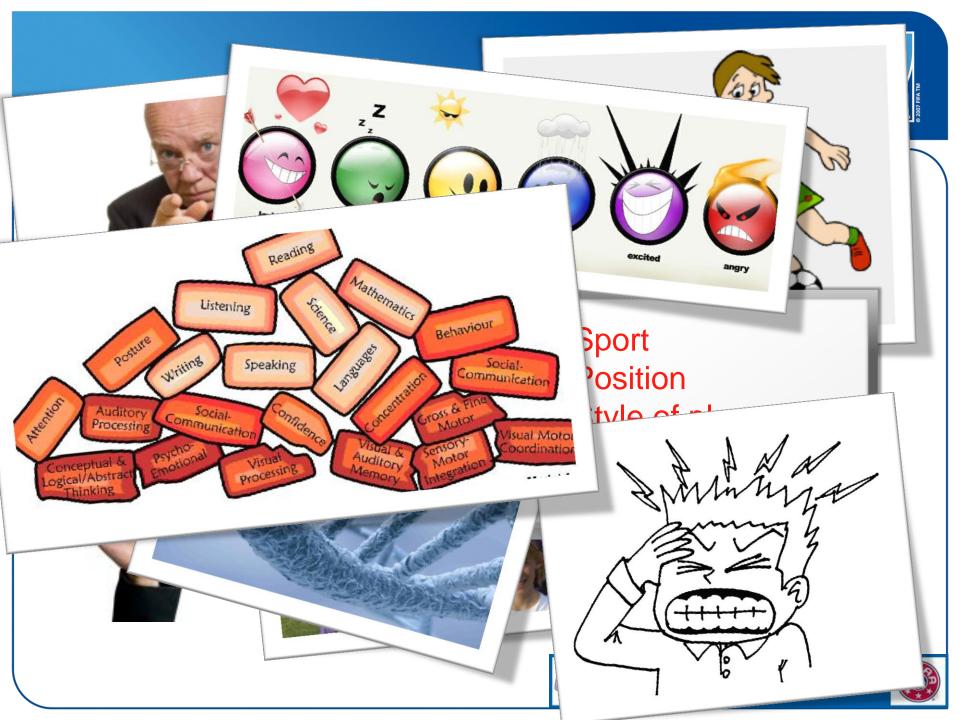




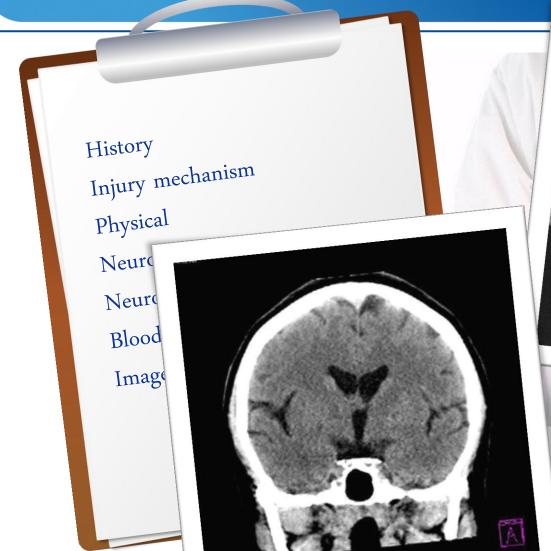














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8-9/10 clear in a week

Symptoms

Balance

SIS

Cognitive function

Post concussion syndrome

Medical, not coaching, decision







From just heading a ball?











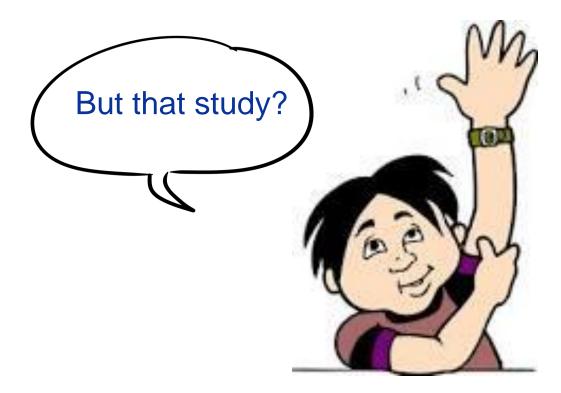


























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Head impact

_____ Impact 3
_____ Impact 2
Concussion threshold

w/o
w/o
w/o
w/o
L
mpact 1





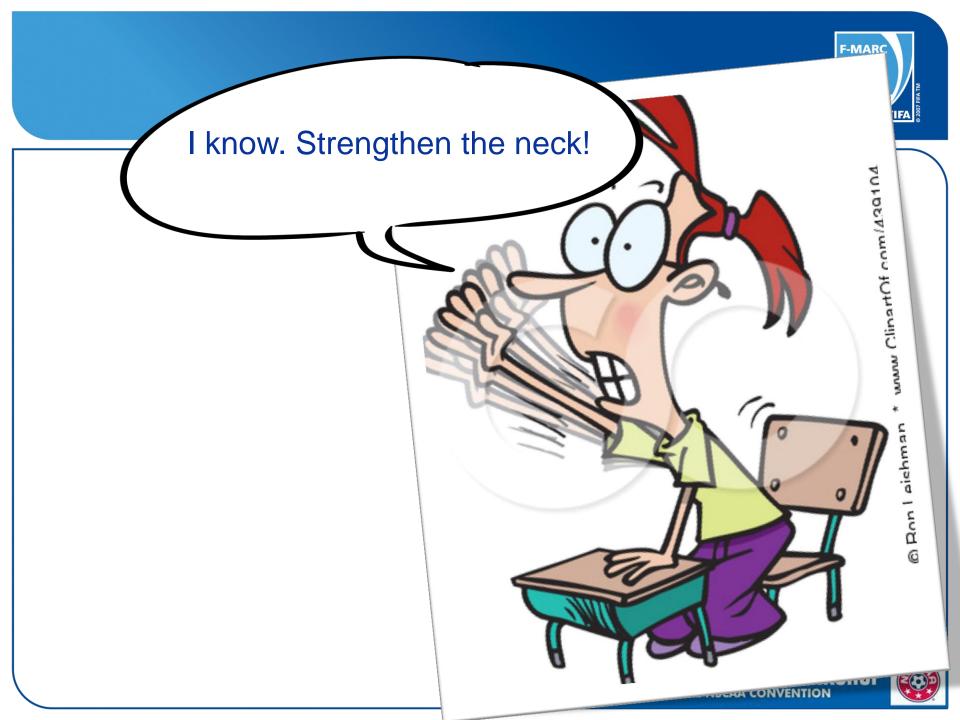






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CONCUSSION PREVENTION PROTOCOL



HOME

THE HEAD AND NECK **ISOLATOR**

ARTICLES AND **PUBLICATIONS**

AUDIO/INTERVIEWS

THE HEAD AND NECK INSTITUTE

BRUTAL WEAR

Thank you for purchasing the Concussion Prevention Protocol DVD

SCIENCE BASED TRAINING

CONCUSSIONS IN THE

CONCUSSION PREVENTION PROTOCOL DVD

Evidence-Based Strength Training for Cervical Spine Injury & Concussion Prevention A Foundation for the Proper Way to Train The Head & Neck













CONCUSSION MANAGEMENT













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Watch + Listen

Traffic World



Medicine & Science Sports & Exercise.

The Official Journal of the American College of Sports Medicine

... Published ahead of Print

Effects of Concussion on Attention and Executive Function in Adolescents

David Howell¹, Louis Osternig¹, Paul van Donkelaar², Ulrich Mayr³, and Li-Shan Chou¹

¹Department of Human Physiology, University of Oregon, Eugene, OR ²School of Health and Exercise Sciences, University of British Columbia, Kelowna, BC, Canada ³Denartment of Psychology University of Oregon Engene OR

playing field too soon following a concussion.





BS Connecticut) ithletes who have e returning to the brain has fully

> assachusetts found that ol athletes in the state in their cognitive abilities once returning to the







SCAT2











Sport Concussion Assessment Tool 2

Name			
Sport/team			
Date/time of injury			
Date/time of assessment			
Age	Gender	М	F
Years of education completed			
Examiner			

What is the SCAT2?1

This tool represents a standardized method of evaluating injured athletes for concussion and can be used in athletes aged from 10 years and older. It supersedes the original SCAT published in 20052. This tool also enables the calculation of the Standardized Assessment of Concussion (SAC)^{3,4} score and the Maddocks questions⁵ for sideline concussion assessment.

Instructions for using the SCAT2

The SCAT2 is designed for the use of medical and health professionals. Preseason baseline testing with the SCAT2 can be helpful for interpreting post-injury test scores. Words in Italics throughout the SCAT2 are the instructions given to the athlete by the tester.

This tool may be freely copied for distribtion to individuals, teams, groups and organizations.

What is a concussion?

A concussion is a disturbance in brain function caused by a direct or indirect force to the head. It results in a variety of nonspecific symptoms (like those listed below) and often does not involve loss of consciousness. Concussion should be suspected in the presence of any one or more of the following:

- . Symptoms (such as headache), or
- · Physical signs (such as unsteadiness), or
- · Impaired brain function (e.g. confusion) or
- · Abnormal behaviour.

Any athlete with a suspected concussion should be REMOVED FROM PLAY, medically assessed, monitored for deterioration (i.e., should not be left alone) and should not drive a motor vehicle.

Symptom Evaluation

How do you feel?

You should score yourself on the following symptoms, based on how you feel now.

	none	т	ild	mod	erate	sev	ere
Headache	0	1	2	3	4	5	6
"Pressure in head"	0	1	2	3	4	5	6
Neck Pain	0	1	2	3	4	5	6
Nausea or vomiting	0	1	2	3	4	5	6
Dizziness	0	1	2	3	4	5	6
Blurred vision	0	1	2	3	4	5	6
Balance problems	0	1	2	3	4	5	6
Sensitivity to light	0	1	2	3	4	5	6
Sensitivity to noise	0	1	2	3	4	5	6
Feeling slowed down	0	1	2	3	4	5	6
Feeling like "in a fog"	0	1	2	3	4	5	6
"Don't feel right"	0	1	2	3	4	5	6
Difficulty concentrating	0	1	2	3	4	5	6
Difficulty remembering	0	1	2	3	4	5	6
Fatigue or low energy	0	1	2	3	4	5	6
Confusion	0	1	2	3	4	5	6
Drowsiness	0	1	2	3	4	5	6
Trouble falling asleep (If applicable)	0	1	2	3	4	5	6
More emotional	0	1	2	3	4	5	6
Irritability	0	1	2	3	4	5	6
Sadness	0	1	2	3	4	5	6
Nervous or Anxious	0	1	2	3	4	5	6

Total number of symptoms (Maximum possible 22)

Symptom severity score
(Add all scores in table, maximum possible: 22 x 6 = 132)

Do the symptoms get worse with physical activity? Do the symptoms get worse with mental activity?

Overall rating

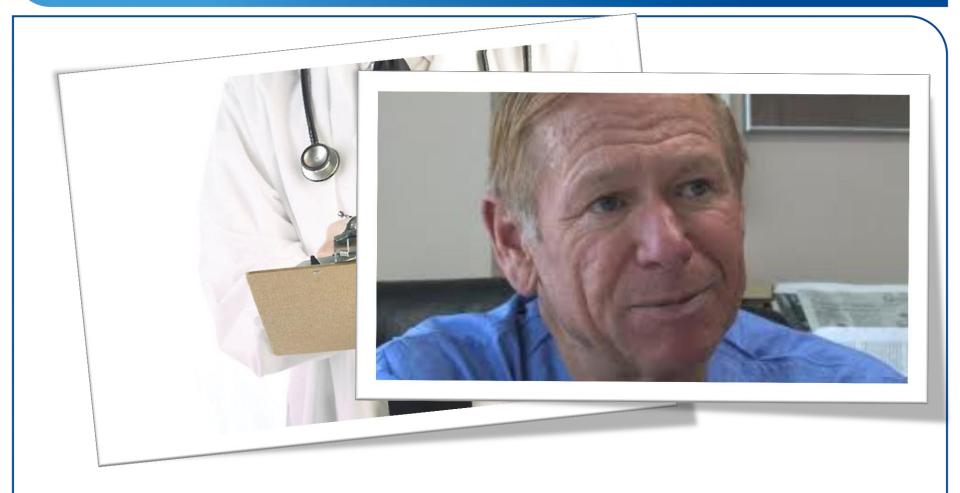
If you know the athlete well prior to the injury, how different is the athlete acting compared to his / her usual self? Please circle one response.

no different	very different	unsur

TOURA CONVENTION

SCAT2 SPORT CONCUSSION ASSESMENT TOOL 2 | PAGE 1







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From the office of Robert Cantu, MD

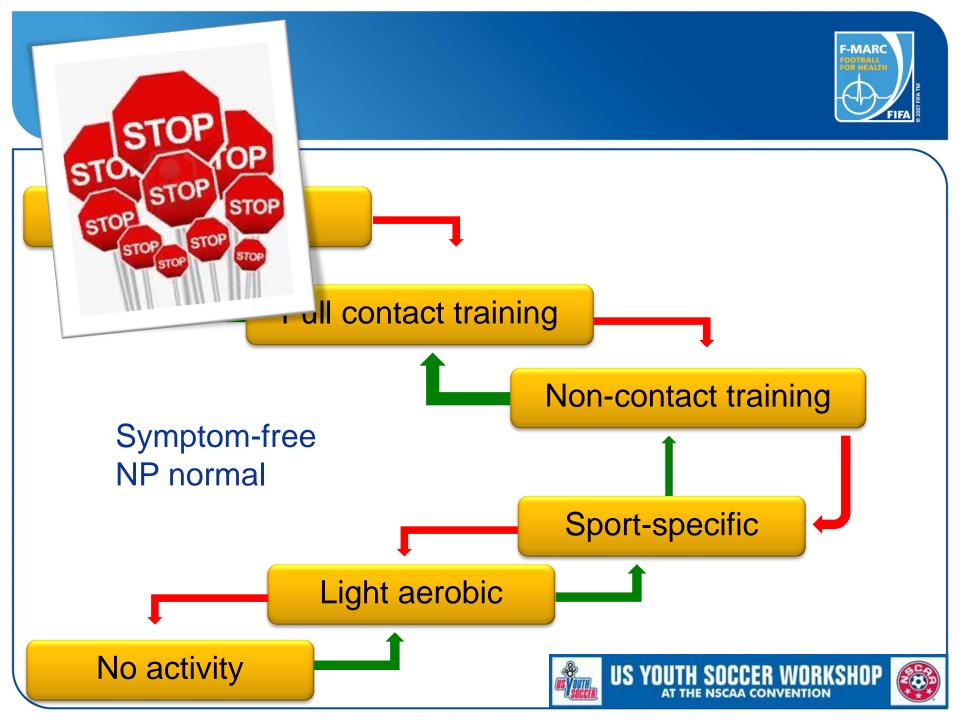
- 1. one exam/day max. incr time, no lengthy homework
- 2. Only walking allowed. No lifting or anything that risks a fall
- 3. Avoid unnecessary mental activity. Nothing that provokes symptoms.

- 4. Avoid anything that provokes symptoms
- 5. No physical education

"no head trauma is good head trauma"







From the office of Robert Cantu,

- 1. <u>NEVER</u> play w/ symptoms
- 2. Best treatment: physical & cogni

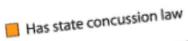


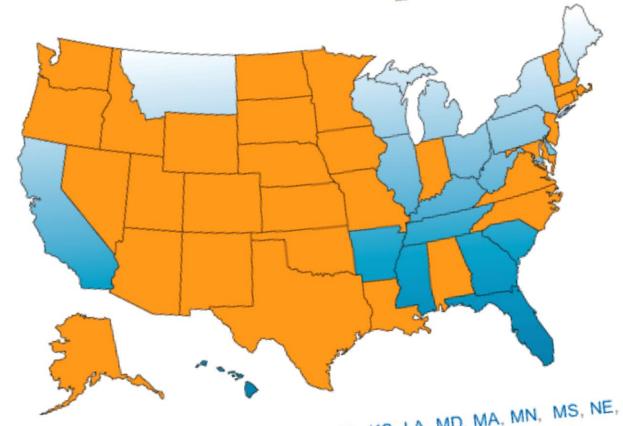
- 3. Properly managed, the player will get better
- 4. If not, risk of longer recovery, post concussion syndrome

"no head trauma is good head trauma"









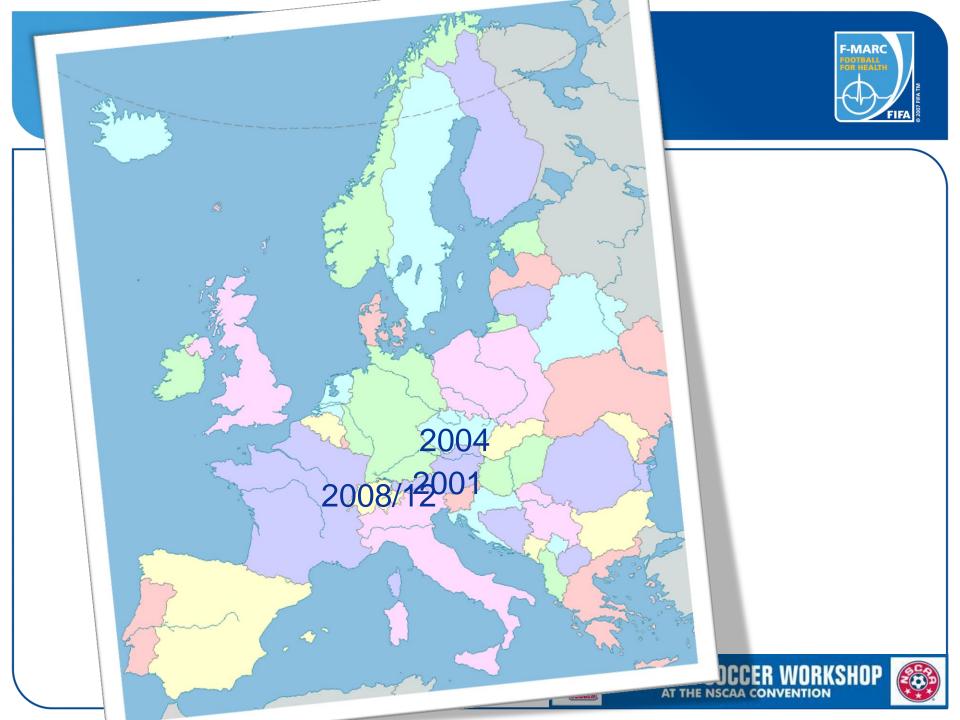
AL, AK, AZ, CA, CO, CT, DC, ID, IL, IN, IA, KS, LA, MD, MA, MN, MS, NE, NV, NJ, NM, NC, ND, OK, OR, RI, SD, TX, UT, VT, VA, WA, WY











Summary and agreement sto the first International Confere Concussion in Sport, Vienna

M Aubry, R Cantu, J Dvorak, T Graf-Bauma K Johnston (Chair), J Kelly, M Lovell, P McC W Meeuwisse, P Schamasch (the Concussic (CIS) Group)

Recommendations for the improvement of safety

Journal of Athletic Training 2009;44(4):434-448 © by the National Athletic Trainers' Association, Inc www.nata.org/jat

Consensus Statement on Co International Conference on in Zurich, November 2008

Paul McCrory, MBBS, PhD*; Willem Mee MD, PhD‡; Jiri Dvorak, MD§; Mark Aubr Robert Cantu, MD⁺⁺#

*University of Melbourne, Parkville, Australia; †University of Rehabilitation Institute, Toronto, Ontario, Canada; §FIFA McClinic, Zurich, Switzerland; ||International Ice Hockey Feder Centre, Ottawa, Ontario, Canada; ¶International Rugby Boa

ORIGINAL ARTICLE

Summary and agreement statement of the 2nd International Conference on Concussion in Sport, Prague 2004

P McCrory, K Johnston, W Meeuwisse, M Aubry, R Cantu, J Dvorak, T Graf-Baumann, J Kelly M Lovell, P Schamasch

See end of article for authors' affiliations Br J Sports Med 2005;39:196–204. doi: 10.1136/bjsm.2005.0186

Correspondence to: Associate Professor McCrory, PO Box 93, Shoreham, Victoria 3916,

In November 2001, the 1st International Symposium on Concussion in Sport was held in Vienna, Aus for the improvement of safety and health of athletes who suffer concuss

for the improvement of safety and health of athletes who suffer concuss I (soccer), and other sports. The 2nd International Symposium on Concuss he same group and held in Prague, Czech Republic in November 2004 date of the Vienna consensus recommendations, which are presented he

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consensus statement

Concussion in Sport

Conference on

4th International Consensus Conference

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4th Concussion
International Consensus in Sport

We are pleased to announce the 4th International Consensus Conference on Concussion in Sport. The meeting will adhere to a NIH consensus format with an open public session on 1-2 November 2012, hosted by FIFA at the Home of FIFA in Zurich.



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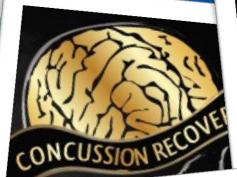




-parents of teenage athletes should take a careful look at this book.

— Ahigoil Zucker, MD, The New York Times

CONCUSSION CRISIS

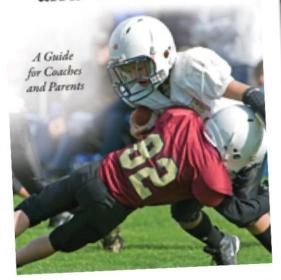






WILLIAM P. MEEHAN III, MD

Kids, Sports, and Concussion

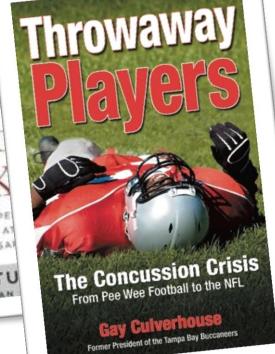




Concussion and Our K

AMERICA'S LEADING EXPE HOW TO PROTECT YOUNG AT AND KEEP SPORTS SAN

ROBERT CANTU

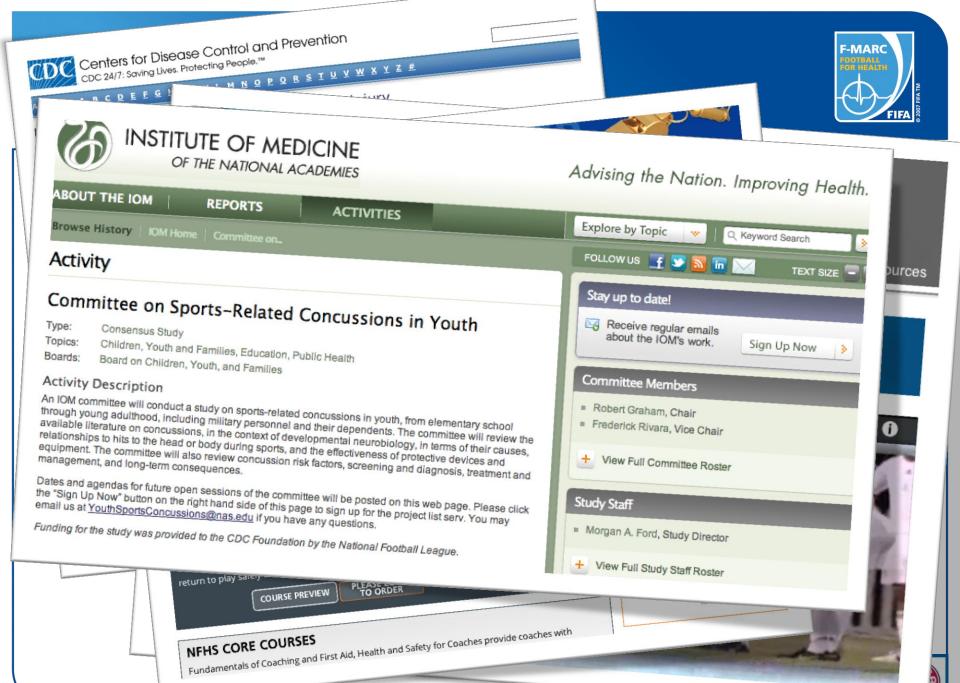




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SACCER





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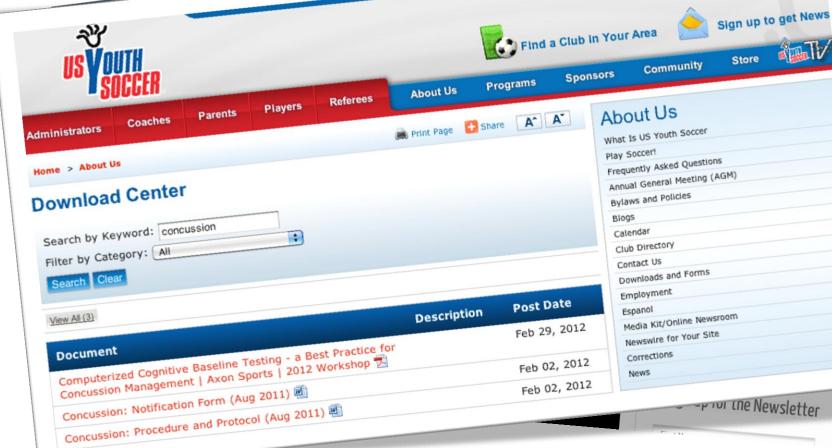
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Head Games: The coach and head injury



Donald T. Kirkendall



