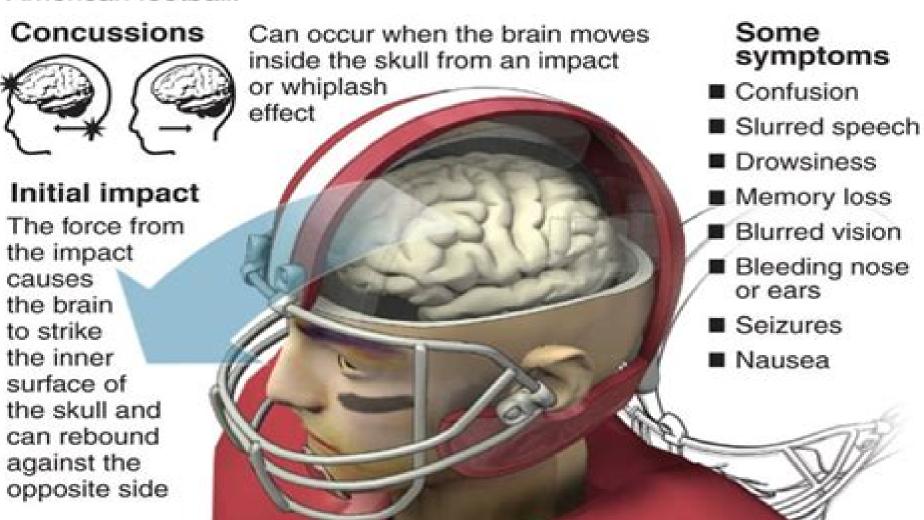
# Head games: concussion crisis in football

As athletes get bigger, stronger and faster than ever before, concussions - caused by violent collisions - are becoming a troubling part of American football.



SOURCE: National Institues of Health

# **Sports Concussions And The Brain**

**R Sandford** 

#### **Sports Concussions And The Brain:**

The Heads-up on Sport Concussion Gary S. Solomon, Karen M. Johnston, Mark R. Lovell, 2006 Concussions happen at all levels of sport from the earliest levels through the professional ranks Potentially catastrophic if not detected early concussions have ended the careers of many notable professional players and it s estimated that in high school football alone about 1 in 5 players suffers a concussion The Heads Up on Sport Concussion is a concise introductory book on sport concussion for professionals who work with athletes It provides a comprehensive review of current literature on sport concussion and it guides professionals in communicating with athletes parents and coaches regarding assessment treatment and other issues surrounding sport concussion In The Heads Up on Sport Concussion the authors detail what happens when the brain is injured appropriate assessment and evaluation tools sport specific issues how medical organizations are addressing the issue of sport concussion medical and nonmedical treatment and rehabilitation strategies recent research on a variety of topics in sport concussion and essential information for coaches athletes and parents This book is focused and authoritative in its treatment of a poorly understood medical problem Providing clear clinical management strategies for sport concussion injuries the text compiles the best available information from different resources and synthesizes the information with summaries and conclusions for easy comprehension. The material is enhanced further with photos and illustrations depicting MRI scans and brain images showing chemical reactions in the brain after an injury In addition the text identifies particular sports and sport activities that have the greatest incidence of sport related concussions and it reports on and critiques those strategies that are currently in place to combat sport concussion across different sport groups In The Heads Up on Sport Concussion professionals in sports medicine neurology neurosurgery and neuropsychology offer strategies for recognizing and treating sport concussion. The text provides appropriate research resources without getting bogged down by lengthy research critiques Many chapters include a Research Digest section that identifies critical research data used in developing recommendations and conclusions Additionally an educational poster is available for download via the Internet for trainers physicians coaches and sports medicine professionals to use to educate athletes and their families about the signs symptoms and treatment of concussion The poster is available at HumanKinetics com The Heads Up on Sport Concussion provides a current understanding of terminology assessment treatment and criteria for return to play for a range of readers Researchers medical professionals and health care specialists will have a more thorough grasp of the various aspects of sport concussion and thus be able to provide better care and education to athletes who sustain concussions Its complete treatment of a critical topic makes this a must read for anyone involved in the care and training of athletes

Sports-Related Concussions in Youth National Research Council, Institute of Medicine, Board on Children, Youth, and Families, Committee on Sports-Related Concussions in Youth, 2014-02-04 In the past decade few subjects at the intersection of medicine and sports have generated as much public interest as sports related concussions especially among youth Despite

growing awareness of sports related concussions and campaigns to educate athletes coaches physicians and parents of young athletes about concussion recognition and management confusion and controversy persist in many areas Currently diagnosis is based primarily on the symptoms reported by the individual rather than on objective diagnostic markers and there is little empirical evidence for the optimal degree and duration of physical rest needed to promote recovery or the best timing and approach for returning to full physical activity Sports Related Concussions in Youth Improving the Science Changing the Culture reviews the science of sports related concussions in youth from elementary school through young adulthood as well as in military personnel and their dependents This report recommends actions that can be taken by a range of audiences including research funding agencies legislatures state and school superintendents and athletic directors military organizations and equipment manufacturers as well as youth who participate in sports and their parents to improve what is known about concussions and to reduce their occurrence Sports Related Concussions in Youth finds that while some studies provide useful information much remains unknown about the extent of concussions in youth how to diagnose manage and prevent concussions and the short and long term consequences of concussions as well as repetitive head impacts that do not result in concussion symptoms. The culture of sports negatively influences athletes self reporting of concussion symptoms and their adherence to return to play guidance Athletes their teammates and in some cases coaches and parents may not fully appreciate the health threats posed by concussions Similarly military recruits are immersed in a culture that includes devotion to duty and service before self and the critical nature of concussions may often go unheeded According to Sports Related Concussions in Youth if the youth sports community can adopt the belief that concussions are serious injuries and emphasize care for players with concussions until they are fully recovered then the culture in which these athletes perform and compete will become much safer Improving understanding of the extent causes effects and prevention of sports related concussions is vitally important for the health and well being of youth athletes The findings and recommendations in this report set a direction for research to reach this goal Youth Sports Concussions, An Issue of Physical Medicine and Rehabilitation Clinics Stanley A. Herring, Kathleen R. Bell, 2011-11-28 Epidemiology of Sports Concussions Pathophysiology of Concussion in Youth On the Field Identification and Sideline Management of Concussion Return to Play Decisions Diagnosis of Concussion The Role of Imaging Now and In Future Use of Neuropsychological Examinations Subacute Management of Concussion Related Symptoms Long Term Consequences Effects on Normal Development Profile After Concussion School and the Concussed Youth Community Response to Concussion Legislative Updates Best Practices in Concussion Education and PreventionEpidemiology of Sports Concussions Pathophysiology of Concussion in Youth On the Field Identification and Sideline Management of Concussion Return to Play Decisions Diagnosis of Concussion The Role of Imaging Now and In Future Use of Neuropsychological Examinations Subacute Management of Concussion Related Symptoms Long Term Consequences Effects on Normal Development Profile After Concussion School and the Concussed Youth Community

Response to Concussion Legislative Updates Best Practices in Concussion Education and Prevention **Sports** Concussions Isabelle Gagnon, Alain Ptito, 2017-11-22 Sport related concussions have become an increasingly important topic as evidenced by recent media attention Due in large part to the complex nature of concussive injuries there is great discrepancy in the effect these injuries have on individual functioning and the type and nature of services that best facilitate recovery This book is intended as a complete reference guide dealing with sports related concussions Neurological Sports Medicine Petraglia, Anthony, Bailes, Julian, Day, Arthur, 2014-07-15 Provides techniques for diagnosis and treatment of concussion and other injuries to the head spine and peripheral nervous system This evidence based reference bridges the gap between principles and practice to better manage these serious injuries Concussion in Sports, An Issue of Clinics in Sports Medicine William P. Meehan, Lyle J. Micheli, 2011-01-28 This issue of Clinics in Sports Medicine will explore all aspects of sports related concussion such as the biomechanics and epidemiology of concussions as well as special considerations for female and pediatric athletes The issue will also include articles on return to play and retiring decisions after sports related concussions Neurosurgical Care of Athletes Mark E. Oppenlander, 2022-01-03 This book provides a modern and up to date overview of the evaluation and management of sports related neuro trauma The primary target audience is the sports neurosurgeon who can be found on the sidelines of collision sports at all levels of play from high school to professional or who may care for these athletes in the acute setting in hospital or the outpatient clinics The reach of this book however will also extend to professionals in other fields of medicine due to some topics that extend outside the typical neurosurgical specialty ranging from chiropractic care in the evaluation and treatment of elite athletes to alternative medical therapies for concussion The importance of the emerging sports neurosurgeon subspecialty is exemplified by the adoption of a policy by the National Football League to require an Unaffiliated Neurotrauma Consultant on field for player safety This policy also speaks to the recent public awareness of the importance of recognizing and treating sports related neuro trauma This text aims to capitalize on this trend and become a multi specialty reference to anyone interested in the field Neurosurgical Care of Athletes serves as a comprehensive resource for physicians and researchers involved in sports related neuro trauma All chapters are prepared by experts in their fields and include the most up to date scientific and clinical information Foundations of Sport-Related Brain Injuries Semyon M. Slobounov, Wayne J. Sebastianelli, 2006-08-25 This book is the partial product of a conference on concussion in athletics held at the Pennsylvania State University April 29 30 2004 For a number of reasons it seemed timely to hold such a conference as well as to condense our current understanding of mechanisms predispositions and latest developments in evaluation and managements of sport related concussions in a single book format Despite dramatic advances in medicine traumatic brain injury commonly know as concussion is still one of the most puzzling and least understood injuries facing the sport medicine world today There still no universal agreement assigning the level of severity the sport related concussions nor there is any treatment besides the passage of time Medicines

inability to fully understanding concussion has led us to question when it is truly safe to return an athlete to full sport participation so threat for risk of re injury is minimized The need for a multidisciplinary approach to understanding the spo related concussions stem from recent evidence that there are long lasting residual behavioral psycho social and neural disabilities that are often overlooked using current research methods The notion of transient and rapid symptoms resolution is misleading since symptoms resolution is frequently not indicative of injury resolution. There are no two traumatic brain injuries alike in mechanism symptomology or symptoms resolution Most grading scales are based on loss of consciousness and post traumatic amnesia both of which occur infrequently in sport related mild traumatic brain injuries of Sport Neuropsychology Frank Webbe, 2011 Print CourseSmart **Sociocultural Examinations of Sports Concussions** Matt Ventresca, Mary McDonald, 2019-11-18 Sport s concussion crisis has been characterized by controversial scientific discoveries athlete suicides and high profile lawsuits involving professional sports leagues while provoking widespread media coverage changes to game rules and debate about the future of many popular sports Sociocultural Examinations of Sports Concussion is the first edited collection to bring together multiple sociocultural perspectives on sports concussion that interrogate the social economic political and historical forces shaping the cultural impacts of these injuries Each of the ten chapters moves beyond biomedical or neuroscientific paradigms to critically examine a specific intersection of sociocultural factors influencing public perceptions about concussion or athlete experiences of brain injury These include analyses of media and advertising medical treatment and diagnostic protocols gender and masculinity developments in equipment and scientific models economics and labor politics understandings of trauma and recovery public health philosophies and disciplinary differences in framing the ontologies of concussion Drawing from a wide range of theoretical and methodological approaches Sociocultural Examinations of Sports Concussion offers a diverse set of analyses examining brain injuries as cultural and embodied phenomena affecting more than just athletes brains but also embedded within and re shaping meanings identities and social contexts It is valuable reading for graduate students and researchers interested in the experience and treatment of sports concussion sports sociology and sports technology **Concussions in Athletics** Semyon M. Slobounov, Wayne J. Sebastianelli, 2014-02-20 Concussions in Athletics From Brain to Behavior is a timely and major contribution to the literature that comprehensively addresses the neuromechanisms predispositions and latest developments in the evaluation and management of concussive injuries Also known as mild traumatic brain injury concussion in athletics is a growing public health concern with increased attention focusing on treatment and management of this puzzling epidemic Despite the increasing occurrence and prevalence of concussions in athletics there is no universally accepted definition or gold standard for its assessment Concussion in Athletics From Brain to Behavior provides a range of major findings that may shed important light on current controversy within the field The book is organized in five parts Evaluation of Concussion and Current Development Biomechanical Mechanisms of Concussion and Helmets Neural

Substrates Biomarkers and Brain Imaging of Concussion Research Pediatric Sport related Concussions and Clinical Management and Rehabilitation of Concussions An invaluable contribution to the literature Concussions in Athletics From Brain to Behavior is a state of the art reference that will be of significant interest to a wide range of clinicians researchers administrators and policy makers **Shaken Brain** Elizabeth Sandel, 2020-02-11 A physician with thirty five years of experience treating people with brain injuries shares the latest research on concussions and best practices for care The explosion of attention to sports concussions has many of us thinking about the addled brains of our football and hockey heroes But concussions happen to everyone not just elite athletes Children fall from high chairs drivers and cyclists get into accidents and workers encounter unexpected obstacles on the job Concussions are prevalent occurring even during everyday activities In fact in less time than it takes to read this sentence three Americans will experience a concussion The global statistics are no less staggering Shaken Brain offers expert advice and urgently needed answers Elizabeth Sandel MD is a board certified physician who has spent more than three decades treating patients with traumatic brain injuries training clinicians and conducting research Here she explains the scientific evidence for what happens to the brain and body after a concussion And she shares stories from a diverse group of patients educating readers on prevention diagnosis and treatment Few people understand that what they do in the aftermath of their injury will make a dramatic difference to their future well being patient experiences testify to the best practices for concussion sufferers and their caregivers Dr Sandel also shows how to evaluate risks before participating in activities and how to use proven safety strategies to mitigate these risks Today concussions aren t just injuries they re big news And like anything in the news they re the subject of much misinformation Shaken Brain is the resource patients and their families friends and caregivers need to understand how concussions occur what to expect from healthcare providers and what the long term consequences may be **Head and Neck Injuries in** Young Athletes Michael O'Brien, William P. Meehan III, 2015-11-30 Providing the most current information on injuries to the head and neck sustained by young athletes this practical text presents a thorough review of the complex and emerging issues for youths and adolescents involved in contact collision sports While concussions are among the most common injuries fractures of the skull and facial bones and structural brain injuries can be serious and are discussed in chapters of their own as are stingers and other cervical spine and cord issues and disease Injuries to the eyes ears and jaw are likewise examined Prevention is a major theme throughout the book as seen in chapters on protective head and neckwear transportation of injured players and sideline response and return to play Head and Neck Injuries in Young Athletes will be an excellent resource not only for orthopedists and sports medicine specialists treating growing athletes but also specialists and team physicians who are on the scene at sporting events where these injuries may occur **Sports Concussions** Isabelle Gagnon, Alain Ptito, 2017-11-22 Sport related concussions have become an increasingly important topic as evidenced by recent media attention Due in large part to the complex nature of concussive injuries there is great discrepancy in the effect

these injuries have on individual functioning and the type and nature of services that best facilitate recovery This book is intended as a complete reference guide dealing with sports related concussions **Tackling the Concussion Epidemic** Tom A. Schweizer, Andrew J. Baker, 2022-03-30 This state of the art book brings together the full range of issues that can inform care for patients experiencing the effects of concussion Written by an international panel of experts and edited by a critical care physician and by a cognitive neuroscientist the book serves as a primer of the various domains of study and application while providing clinical insights and evidence to bring towards treatment Chapters span the basic mechanics and pathophysiology of concussion through its assessment management and complications Comprehensive and timely this book is accessible to healthcare professionals and researchers eager to learn something about this field Concussion and Traumatic Encephalopathy Jeff Victoroff, Erin D. Bigler, 2019-02-28 Readers will discover how very recent scientific advances have overthrown a century of dogma about concussive brain injury Concussion Rehabilitation Noah D. Silverberg, Jennie L. Ponsford, Karen M. Barlow, 2020-09-18 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiers in org about contact **Sports Concussions Mary-Lane** Kamberg, 2011-01-15 This book examines the mounting evidence about the health effects of concussions and the efforts to protect athletes from this dangerous injury Medical Conditions in the Physically Active Katie Walsh Flanagan, Micki Cuppett, 2024-04 Medical Conditions in the Physically Active Fourth Edition With HKPropel Access assists athletic trainers in recognizing and identifying medical conditions in athletes and active individuals The text addresses medical conditions by body system treatment and return to participation criteria The Oxford Handbook of Adult Cognitive Disorders Robert A. Stern (Ph. D.), Michael L. Alosco, 2019 The Oxford Handbook of Adult Cognitive Disorders is an up to date scholarly and comprehensive volume that covers most diseases conditions and injuries resulting in impairments in cognitive function in adults The Handbook is appropriate for both clinicians and clinical researchers from advanced trainees to seasoned professionals

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