

Evaluation Of Concussion Post Concussion Syndrome

William D. Boyd

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.

Concussion Management for Wheelchair Athletes Kenneth Lee, Michael William Harper, Michael Joseph Uihlein, Michael McCrea, 2021-11-18 This book arises from the challenges and difficulties involved in the evaluation and management of concussions in wheelchair athletes. Concussions are most readily identified in the ambulatory population via identifying gross motor instability or when athletes lose their balance and stumble after a blow to the head or neck region. Because wheelchair athletes participate in sport while sitting down and using a wheelchair, clinicians must be extra attentive to identify a potential concussion. Once a potential concussion is identified, there are many challenges in evaluation of the wheelchair athlete population due to their comorbidities. At baseline, they may have signs and symptoms that mimic a concussion, and their impairments can also alter their cognitive and balance assessments. Therefore, it is critical to make a distinction between these athletes' baseline comorbid impairments and potential new exam findings in a concussion. Filling in a critical gap in the literature, this is a concise pocket guide for any clinician, trainer, or rehabilitation specialist who is involved in wheelchair sports. It focuses on the unique challenges in evaluating a concussion in the wheelchair athlete, including baseline testing, the process of evaluating the signs and symptoms of a concussion, cognitive and vestibular examination, new clinical techniques specific to wheelchair athletes, and the return to play process. A Concussion Management Program (CMP) for use on the sideline as well as in the office is included. Practical and timely, Concussion Management for Wheelchair Athletes is a valuable resource to increase awareness, provide guidance on the unique challenges within this population, and generate interest in future research and investigation.

Pediatric and Adolescent Concussion Jennifer Niskala Apps, Kevin D. Walter, 2011-12-14 Between the growing numbers of children and adolescents playing sports and the increased attention to head injuries by the larger sports community and the general public, pediatric concussions are emerging as a major concern. And as practitioners are seeing more young clients with head injuries, questions arise about age-appropriate assessment, diagnosis, treatment, and return to activity. Pediatric and Adolescent Concussion: Diagnosis, Management, and Outcomes offers evidence-based guidelines where few previously existed. This comprehensive volume clearly explains the effects of traumatic injury on the developing brain in sports- and non-sports-related contexts, and establishes a framework for immediate and long-term management, especially the crucial first 24 hours. Chapters provide a basic grounding in its subject with a history of concussion as a medical entity and a review of definitional and classification issues, take the reader through the steps of a neuropsychological evaluation, pinpoint post-injury issues, and offer strategies for the prevention of further or future injury. Pediatric and Adolescent Concussion: Diagnosis, Management, and Outcomes serves as both educational resource and practical framework for a wide array of professionals, including neuropsychologists, sports medicine physicians, child psychologists and psychiatrists, pediatric and family physicians, athletic trainers, social workers, and educators.

Concussion E-Book Blessen Eapen, David X. Cifu, 2019-08-09 This practical reference, edited by Drs. Blessen C. Eapen

and David X. Cifu, covers the full spectrum of assessment, management, and rehabilitation after concussion. It includes best practices and considerations for numerous patient populations and their unique needs in an easy-to-read, concise format. Geared toward physiatrists, neurologists, primary care physicians, and rehabilitation professionals, this book provides the key information you need to guide your treatment plans and help patients recover after concussion. Consolidates the most current information and guidance in this challenging and diverse area into one convenient resource. Covers acute management of concussions, diagnostic criteria, neuroimaging, biomarkers, chronic traumatic encephalopathy and return-to-play, school and duty protocols. Discusses special populations, including pediatrics, sports, military and veteran patients. Covers post-concussive syndrome and its management of sequelae after concussion.

Brain Neurotrauma Firas H. Kobeissy, 2015-02-25 With the contribution from more than one hundred CNS neurotrauma experts, this book provides a comprehensive and up-to-date account on the latest developments in the area of neurotrauma including biomarker studies, experimental models, diagnostic methods, and neurotherapeutic intervention strategies in brain injury research. It discusses neurotrauma mechanisms, biomarker discovery, and neurocognitive and neurobehavioral deficits. Also included are medical interventions and recent neurotherapeutics used in the area of brain injury that have been translated to the area of rehabilitation research. In addition, a section is devoted to models of milder CNS injury, including sports injuries.

Sports-Related Concussion Brian Sindelar, Julian E. Bailes, 2017-11-22 This new edition reflects the explosion of knowledge in basic science and clinical care for athletes with mild traumatic brain injury or concussion. Interest in management and methodology for making diagnoses and improving the clinical outcomes have changed dramatically. All U.S. states have laws dictating how sports concussion patients are cared for and require return to play decisions be coordinated with best practice methods. Epidemiology, classification, and biology of sports concussion, as well as, brain imaging, assessment tests, neuropsychological measures, and management strategies are covered. Illustrative clinical cases, correlative examples, and historical insights are featured.

The Post Concussion Symptom Scale May Exhibit A Ceiling Effect in Women with Post Concussion Syndrome: A Case Series Donald L. Hoover, 2017 The Post Concussion Symptom Scale May Exhibit A Ceiling Effect in Women with Post Concussion Syndrome: A Case Series Abstract: Background: Post Concussion Syndrome (PCS) is widely defined as the presentation of persistent signs and symptoms 1 month or more after a concussive event, and it is characterized as exhibiting 3 or more of the following signs or symptoms: dizziness, fatigue, irritability, poor concentration, memory limitations, headache, and insomnia. PCS can be life-altering and adversely affect independence in functional activities of daily living, work, and caregiver abilities. PCS is reported to affect more women than men. One of the outcome tools that has shown validity in individuals with PCS is the post-concussion symptoms scale (PCSS). PCSS is a self-reported scale and helps to

establish a base of PCS for individuals in the outpatient setting. However, limited research exists on the efficacy of the PCSS populations of adults with PCS who are non-military, non-athletes. This case series describes 7 women who were diagnosed with PCS and the integration of the PCSS within their rehabilitation in an outpatient physical therapy setting. Case description: The PCSS was administered in the outpatient setting to 7 women patients diagnosed with PCS. At the time of initial evaluation, each had primary complaints of unstable gait, none were able to tolerate vestibulo-oculomotor testing at initial evaluation, and all had abnormal Modified Clinical Test of Sensory Interaction on Balance (mCTSIB) testing. During physical therapy, each received detailed screening of the neurologic system, as well as individualized treatment, including canalith repositioning techniques, therapeutic exercise, and oculomotor training, and cognitive behavior therapy, as individually indicated. Outcomes: The initial PCSS scores for this group were suspected to have a ceiling effect, suggesting that this instrument may lack sensitivity and specificity for non-military, non-athlete samples such as the present one. Nonetheless, 6 of 7 women in this case series had improved scores on the PCSS over the course of her rehabilitation. Average improvements of 21.3 points from initial evaluation to discharge were recorded. Each patient in this case series noted having positive gains with gait stability, ranging from self-reported 30% to 100% improvement. Of the 3 who were not working at initial evaluation, all returned to work in a functional capacity; 2 returned fully, 1 returned with restriction due to awaiting a shoulder surgery. Discussion: Outcome tools for adults with PCS who are neither military nor athletes need to be further investigated. The present case series suggests the PCSS lacks sensitivity and specificity for this population, prompting questions regarding issues such as minimal detectable difference and other variables helpful in clinical screening and decisions regarding discharge to previous activity levels. Future study on the PCSS or other instruments in non-military, non-athlete adults with PCS would be valuable, helping perhaps to both establish normative data and link clinically significant change to functional improvement.

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Mild Traumatic Brain Injury and Postconcussion Syndrome Michael McCrea, 2008 This is the first neuropsychology book to translate exciting findings from the recent explosion of research on sport-related concussion to the broader context of mild traumatic brain injury (MTBI) and post-concussive syndrome (PCS) in the general population. In addition, it includes a Continuing Education (CE) component administered by the American Academy of Clinical Neuropsychology. Traumatic brain injuries constitute a major global public health problem, but until now, MTBIs, which constitute up to 90 percent of all treated TBIs, have been difficult to evaluate and manage clinically because of the absence of a viable model. Dr. McCrea's book thus provides a welcome evidence base for all clinicians - including psychologists, neuropsychologists, neurologists, neurosurgeons, rehabilitation medicine physicians, physiatrists, and nurses - involved in the clinical diagnosis and treatment of MTBI, as well as attorneys involved in personal injury litigation and personal injury defense. Each section of the book ends with a helpful summary of the 'Top 10 Conclusions.' Instructions for earning AACN-administered CE credit are included.

Post-Concussion Syndrome William D. Boyd, 2014-08-15 This book surveys the research on this disorder. Most people recover completely following concussion, also known as mild traumatic brain injury, but some continue to have post-concussion syndrome symptoms for months or even years after the injury. This book explores the definition, genesis, assessment, diagnosis, recovery, and treatment of post-concussion syndrome.

Concussion Blessen Eapen, David X. Cifu, 2019-08-09 This practical reference, edited by Drs. Blessen C. Eapen and David X. Cifu, covers the full spectrum of assessment, management, and rehabilitation after concussion. It includes best practices and considerations for numerous patient populations and their unique needs in an easy-to-read, concise format. Geared toward physiatrists, neurologists, primary care physicians, and rehabilitation professionals, this book provides the key information you need to guide your treatment plans and help patients recover after concussion. Consolidates the most current information and guidance in this challenging and diverse area into one convenient resource. Covers acute management of concussions, diagnostic criteria, neuroimaging, biomarkers, chronic traumatic encephalopathy and return-to-play, school, and duty protocols. Discusses special populations, including pediatrics, sports, military, and veteran patients. Covers post-concussive syndrome and its management of sequelae after concussion.

Evaluation of the Disability Determination Process for Traumatic Brain Injury in Veterans National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Health Care Services, Committee on the Review of the Department of Veterans Affairs Examinations for Traumatic Brain Injury, 2019-05-20 The Veterans Benefits

Administration (VBA) provides disability compensation to veterans with a service-connected injury, and to receive disability compensation from the Department of Veterans Affairs (VA), a veteran must submit a claim or have a claim submitted on his or her behalf. Evaluation of the Disability Determination Process for Traumatic Brain Injury in Veterans reviews the process by which the VA assesses impairments resulting from traumatic brain injury for purposes of awarding disability compensation. This report also provides recommendations for legislative or administrative action for improving the adjudication of veterans' claims seeking entitlement to compensation for all impairments arising from a traumatic brain injury.

Concussion Management for Primary Care Deepak S. Patel, 2020-03-20 Concussions are increasing in incidence each year, and each state has a law on management of concussions in children. These factors strengthen the need for primary care providers to be well-versed in the evaluation and management of them. This text provides primary care physicians and clinicians with an evidence-based yet practical approach to diagnosing and treating concussions in children and adults. The book begins with a general overview of concussions. It then goes on to identify risks, signs and symptoms of concussions. Next, physicians and providers learn when and how to perform appropriate physical exams for suspected concussions. The following chapters focus on finding the correct type of testing to perform in suspected concussions. The testing options addressed include diagnostic, neurocognitive and imaging. Return-to-learn and return-to-play recommendations are then discussed to ensure that providers are able to properly educate patients on them. The book concludes by explaining post-concussion syndrome and identifying methods to prevent concussions and complications in the future. Each chapter presents a specific case along with 3-5 followup questions as well as a summary of key concepts. Written from the unique perspective of a primary care physician who also specializes in sports medicine and concussions, *Concussion Management for Primary Care* is a first-of-its-kind book that serves as a valuable resource for primary care physicians, sports medicine physicians and any other clinician treating patients suffering from a possible concussion.

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.

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 Sports concussions make headlines, but you don't have to be an NFL star to suffer traumatic brain injury. In *Shaken Brain*, Elizabeth Sandel, MD, shares stories and research from her decades treating and studying brain injuries. She explains what concussions do to our bodies, how to avoid them, and how to recover.

Concussion Brian Hainline, Lindsey J. Gurin, Daniel M. Torres, 2020 Abstract: Concussion is a type of mild traumatic brain injury, is common, and occurs both in sport and as a result of falls or accidents. Concussion has become an increasingly recognized public health concern, largely driven by prominent media coverage of athletes who have sustained concussion. Although much has been written about this condition, we still do not understand its natural history, and we are only now beginning to recognize that concussion often manifests in different clinical domains. These may require targeted treatment in and of themselves; otherwise, persistent postconcussive symptoms may develop. Although most individuals who sustain a concussion recover, and although concussion is a treatable condition, it is important that concussion be managed early and comprehensively to avoid a more prolonged clinical trajectory. A relatively recent term often used in the setting of concussion is repetitive head impact exposure—a biomechanical force applied to the head that does not generate a clinical manifestation of concussion, but may result in structural brain changes. Although it is often assumed that repetitive head impact exposure leads to long-term neurological sequelae, the science to document this assumption is in its infancy. Repeated concussions may lead to depression or cognitive impairment later in life, and there is an emerging literature that repeated concussion and repetitive head impact exposure are associated with chronic traumatic encephalopathy or other neurodegenerative diseases. Currently there is no known causal connection between concussion, repetitive head impact exposure, and neurodegeneration, although this research is also still in its infancy. What is clear is that (a) concussion prevention and safety should be paramount in sport and in society, (b) concussion management should begin immediately and should include clinical domains, and (c) research on concussion and repetitive head impact exposure must continue to move forward. Keywords: concussion; mild traumatic brain injury; clinical domains; repetitive head impact exposure; chronic traumatic encephalopathy; safety--

Managing Concussions in Schools Susan Davies, EdD, NCSP, 2016-06-10 The first book to focus on managing

concussions from prevention to post-concussion return to school Concussions pose a serious and complex issue for schools – from determining if a student may have suffered a concussion during a school activity to ensuring that students diagnosed with this condition can safely and effectively resume study, recreation, and sports. This is the first comprehensive text for school staff, including psychologists, counselors, and nurses, on managing concussions in students, from prevention to post-concussion return to school. With a focus that addresses concussions on and beyond the sports field, the book describes how to create and lead a concussion management team in school and provides clear, non-technical information on how concussions can affect learning, mental health, and social-emotional functioning; tools for school-based concussion assessment; and guidelines for creating accommodation plans in collaboration with the family, community, and school team. The text guides key school professionals in navigating the barriers, system issues, knowledge gaps, and complexities in recognizing and responding to student concussions. Case studies integrated throughout each chapter feature the same four students from point of injury to recovery. Reproducible forms and handouts include signs and symptoms checklists, a post-concussion care plan, a checklist of academic adjustments, and progress monitoring tools. Key Features: Offers comprehensive, practical information on concussion for school psychologists, counselors, and nurses Provides skills in developing and leading a school-based concussion management team Explains how concussions can affect learning, mental health and social-emotional functioning Offers tools for school-based concussion assessment Includes guidelines for creating symptom-based adjustments to the learning environment in collaboration with family, community, and school team Includes in-depth case studies and handouts, forms, and checklists

ASSESSMENT OF POST-CONCUSSION SYNDROME TREATMENT AND MANAGEMENT RESOURCES. Neha Gupta,2018 The purpose of this paper was to understand the treatment options for Post-Concussion Syndrome, gain insight into the unmet needs of patients suffering from concussions, consider the factors that hinder patient recovery, and identify easily accessible information on treatment/management. In order to do so, current resources that focus on concussion management and treatment were assessed and concussion experts/providers were interviewed to understand their perspectives on and awareness of treatment and resources. The goal was to recognize how current resources can be improved and how future research can be guided to ultimately facilitate effective recovery. Results showed that there has been progress on resource creation but there is much need for improvement that may cut down the factors that hinder care. Specific features and suggestions were outlined. Second, a need for a systematic review and further scientific research to assess treatment options was identified. Lastly, randomized and large-sample size interviews/surveys to better understand the unmet needs of various groups like patients, providers, athletic trainers, and researchers were recommended. It is hoped that this study will inform practitioners and researchers about the current resources for concussion management and treatment, and be guided in future resource creation or improvement.

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.

Sports Neuropsychology Ruben J. Echemend?a, 2006-02-06 In actual therapy sessions, the video shows Dr. Linehan teaching patients the use of such skills as mindfulness, distress tolerance, interpersonal effectiveness, and emotional regulation in order to manage extreme beliefs and behaviors. Viewers observe how Dr. Linehan and a team of therapists work through the range of problems and frustrations that arise in treatment.

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Table of Contents Evaluation Of Concussion Post Concussion Syndrome

1. Understanding the eBook Evaluation Of Concussion Post Concussion Syndrome
 - The Rise of Digital Reading Evaluation Of Concussion Post Concussion Syndrome
 - Advantages of eBooks Over Traditional Books
2. Identifying Evaluation Of Concussion Post Concussion Syndrome
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Evaluation Of Concussion Post Concussion Syndrome
 - User-Friendly Interface
4. Exploring eBook Recommendations from Evaluation Of Concussion Post

- Concussion Syndrome
 - Personalized Recommendations
 - Evaluation Of Concussion Post Concussion Syndrome User Reviews and Ratings
 - Evaluation Of Concussion Post Concussion Syndrome and Bestseller Lists
5. Accessing Evaluation Of Concussion Post Concussion Syndrome Free and Paid eBooks
 - Evaluation Of Concussion Post Concussion Syndrome Public Domain eBooks
 - Evaluation Of Concussion Post Concussion Syndrome eBook Subscription Services
 - Evaluation Of Concussion Post Concussion Syndrome Budget-Friendly Options
6. Navigating Evaluation Of Concussion Post Concussion Syndrome eBook Formats
 - ePub, PDF, MOBI, and More
 - Evaluation Of Concussion Post Concussion Syndrome Compatibility with Devices

- Evaluation Of Concussion Post Concussion Syndrome Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Evaluation Of Concussion Post Concussion Syndrome
 - Highlighting and Note-Taking Evaluation Of Concussion Post Concussion Syndrome
 - Interactive Elements Evaluation Of Concussion Post Concussion Syndrome
8. Staying Engaged with Evaluation Of Concussion Post Concussion Syndrome
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Evaluation Of Concussion Post Concussion Syndrome
9. Balancing eBooks and Physical Books Evaluation Of Concussion Post Concussion Syndrome

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Evaluation Of Concussion Post Concussion Syndrome
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Evaluation Of Concussion Post Concussion Syndrome
 - Setting Reading Goals Evaluation Of Concussion Post Concussion Syndrome
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Evaluation Of Concussion Post Concussion Syndrome
 - Fact-Checking eBook Content of Evaluation Of Concussion Post Concussion Syndrome
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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