

Evaluation Of Concussion Post Concussion Syndrome

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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 Competencies from a British Perspective - Arthur Maerlender

2020-06-15

This book presents information needed for people working with concussion recovery, as well as anyone currently experiencing a concussion, especially those which are sports-related. There is currently no defined body of knowledge that practitioners in this field need to know, and this book serves to fill that gap. While medical attention is often needed at the beginning of the injury, the most important parts of ongoing treatment are behavioural, namely managing and monitoring the patient and engaging them in appropriate “active rehabilitation” strategies. The competencies described here address multiple constituencies, from medical

personnel to patients. The book is designed to direct the reader to appropriate sections in a straightforward manner supported by evidence and research. The core focus here is on schools, where the consequences of sports-related concussion are significant. However, the knowledge competencies are broad enough to provide a solid education in concussions and what to do about them across various environments.

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. 1.tKashluba S, Casey J, Paniak C (2006). Evaluating the utility of ICD-10 diagnostic criteria for postconcussion syndrome following mild traumatic brain injury. *Journal of the International Neuropsychological Society*, 12(1), 111-118. doi:10.1017/S13556177060600362.tTerry DP, Iverson GL, Panenka W, Colantonio A, Silverberg ND. Workplace and non-workplace mild traumatic brain injuries in an outpatient clinic sample: A case-control study. de Castro F, ed. *PLoS ONE*. 2018;13(6):e0198128. doi:10.1371/journal.pone.0198128.3.tChu SY, Tsai YH, Xiao SH, Huang SJ, Yang CC. Quality of return to work in patients with mild traumatic brain injury: a prospective investigation of associations among post-

concussion symptoms, neuropsychological functions, working status and stability. *Brain Inj.* 2017;31(12):1674-1682. doi: 10.1080/02699052.2017.1332783. Epub 2017 Sep 5.4.tBazarian JJ, Wong T, Harris M, Leahey N, Mookerjee S, Dombovy M: Epidemiology and predictors of post-concussive syndrome after minor head injury in an emergency population. *Brain Inj* 13:173u2013189, 19995.tChen J, Johnston KM, Collie A, McCrory P, Ptito A. A validation of the post concussion symptom scale in the assessment of complex concussion using cognitive testing and functional MRI. *Journal of Neurology, Neurosurgery, and Psychiatry.* 2007;78(11):1231-1238. doi:10.1136/jnnp.2006.110395. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2117618/6.t>Gardner RC, Dams-O'Connor K, Morrissey MR, Manley GT. Geriatric Traumatic Brain Injury:

Epidemiology, Outcomes, Knowledge Gaps, and Future Directions. *J Neurotrauma.* 2018 Feb 15; 35:889u2013906 . Epub 2018 Feb 15.

Brain Neurotrauma - Firas H. Kobeissy
2015-02-25

Every year, an estimated 1.7 million Americans sustain brain injury. Long-term disabilities impact nearly half of moderate brain injury survivors and nearly 50,000 of these cases result in death. *Brain Neurotrauma: Molecular, Neuropsychological, and Rehabilitation Aspects* provides a comprehensive and up-to-date account on the latest developments in the area of neurotrauma, including brain injury pathophysiology, biomarker research, experimental models of CNS injury, diagnostic methods, and neurotherapeutic interventions as well as neurorehabilitation strategies in the field of neurotraum research. The book includes

several sections on neurotrauma mechanisms, biomarker discovery, neurocognitive/neurobehavioral deficits, and neurorehabilitation and treatment approaches. It also contains a section devoted to models of mild CNS injury, including blast and sport-related injuries. Over the last decade, the field of neurotrauma has witnessed significant advances, especially at the molecular, cellular, and behavioral levels. This progress is largely due to the introduction of novel techniques, as well as the development of new animal models of central nervous system (CNS) injury. This book, with its diverse coherent content, gives you insight into the diverse and heterogeneous aspects of CNS pathology and/or rehabilitation needs.

Concussion Care Manual - David L Brody MD, PhD 2014-09-01

This is a practical manual for clinicians who

take care of patients with concussions. The long-term effects of concussions are an increasingly recognized problem in the medical community and by the general public. Most people recover well from concussions, but a substantial minority does not. However, most clinicians do not have specific training in how to evaluate and treat concussion patients who do not make a rapid and complete recovery. This manual, based on the experience of the director of the concussion clinic at Washington University in St Louis, provides specific step-by-step guidance for managing a variety of problems related to complex concussions: making an accurate diagnosis, general treatment strategies, headaches, sleep disruption, attention deficit, mood instability, anxiety and depression, post-traumatic stress, personality change, balance problems, dizziness, fatigue etc. Furthermore, there are specific sections on

return to work, return to driving, return to school and return to contact sports. Finally, the manual includes information on special topics, such as concussion in adolescents, children, contact sport athletes, military personnel, and patients involved in medico-legal matters. The manual is written for clinicians with a broad range of backgrounds: primary care physicians, nurse practitioners, physician's assistants, athletic trainers, emergency medicine doctors, neurologists, neurosurgeons, psychiatrists, and rehabilitation medicine physicians should all be able to use the manual effectively. There is information on how to set up a specialty concussion clinic, and an extensive list of internet-based resources related to concussion. A list of other publications is provided to point to additional detailed information beyond what a pocket-sized 'on-the-fly' manual can provide.

Concussion in Sports, An Issue of Clinics in Sports Medicine - E-Book -

William P. Meehan 2010-12-20

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.

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 Management for Wheelchair Athletes - Kenneth Lee

Concussion Rehabilitation - Noah D. Silverberg 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:

[frontiersin.org/about/contact](https://www.frontiersin.org/about/contact).

Concussion - Anthony P. Kontos 2018

This book presents a comprehensive, team-based model for assessment and treatment of concussion.

Manual of Traumatic Brain Injury - Felise S. Zollman, MD, FAAN, FAAMA 2016-05-28

The Manual provides an excellent road map to the many topics relevant in the diagnosis, treatment, and long-term management of individuals with TBI. As such, the book can serve either as a fine introduction for the uninitiated or as a valued reference for seasoned clinicians. I highly recommend [it]... Journal of Head Trauma Rehabilitation This is a stellar quality book that will be beneficial for every member of the multidisciplinary team that is required to treat patients with TBI. It offers a concise but broad and informative view of the disorder, and can serve as an

easy-to-read and access primary text. 4 Stars! Doody's Reviews Now completely revised and updated, *Manual of Traumatic Brain Injury: Assessment and Management, Second Edition* is a comprehensive evidence-based guide to brain injury diagnosis, treatment, and recovery, delivered in a succinct format designed for targeted access to essential content. This concise text, featuring internationally known contributors drawn from leading TBI programs, is organized into five sections. Part 1 discusses fundamental concepts needed to provide a context for clinical decision-making. Part 2 covers mild TBI, from natural history to sports-related concussion, post-concussion syndrome, and more. Part 3 focuses on moderate to severe TBI and contains chapters on pre-hospital, emergency and ICU care, rehabilitation, community reintegration, management of associated impairments, and post-injury

outcomes. Part 4 covers the complications and long-term sequelae that may arise in patients with TBI, including spasticity, movement disorders, posttraumatic seizures, hydrocephalus, behavioral and sleep disturbances, and chronic traumatic encephalopathy (CTE). Part 5 focuses on special considerations and resources, including issues specific to selected populations or injury environments (military, pediatric, workers compensation and older patients), as well as return to work and medico-legal issues in TBI. Comprehensively updated to reflect the current state of the art in this rapidly evolving field, this book is a must-have for neurologists, physiatrists, primary care physicians, mental health professionals, social workers, and other healthcare providers who treat TBI patients. New to the Second Edition: "Key Points" section in each chapter crystallizes important clinical

pearls New chapters cover anoxia complicating TBI, screening for emotional distress in TBI patients, management of chronic behavioral disturbances, and assistive technology Every chapter has been updated to reflect current evidence-based practice

Concussion - Brian Hainline 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"--

Sports Neurology - 2018-12-19

Sports Neurology is designed to be a comprehensive overview of neurology within the context of sports medicine. This

definitive text addresses the history of sports neurology, including its unique role within sports medicine, and provides a detailed assessment of central and peripheral nervous system injuries and illnesses in athletes. Sports Neurology is a critical companion for all sports medicine clinicians and for neurologists who manage athletes.

Evaluation of the Disability Determination Process for Traumatic Brain Injury in Veterans - National Academies of Sciences, Engineering, and Medicine 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.

Traumatic Brain Injury - Yongxia Zhou
2019-09-11

Traumatic brain injury (TBI) is a significant public health problem. There are several advanced techniques available for the investigation of disease neurobiology, diagnosis, and treatment. This book covers many topics in the active TBI research field such as cumulative mild head injury review, brain changes, and risk factors, as well as post-concussion syndrome (PCS) definition,

classification, and association with brain dysfunction. Brain changes, including blood flow, intracranial pressure, and neuroinflammation, the neurobiological basis of neuroprotective activation, as well as correlation with PCS, including sleep, are illustrated further. Furthermore, multiple biomarkers, including S-100 β , UCH-L1, and GFAP for blood-brain barrier breakdown and neuronal injury, are reviewed thoroughly. Lastly, well-evaluated neuroprotective agents, hypothermia as a neuroprotective effect in TBI, and effects investigation, as well as sedation in TBI as a neurocritical and therapeutic strategy with different assessments, are reported. This book introduces readers to a number of perspectives, including TBI disease pathophysiology and post-concussion syndrome classification, associated brain changes, imaging diagnosis, and several useful biomarkers with high sensitivities, as

well as multiple therapeutic strategies. Various advanced technical developments, upfront neuroimaging, and clinical data are presented together with comprehensive, up-to-date, and interesting examples. Detailed reviews and accurate illustrations together with objective and informative discussions of several challenging problems such as PCS and neuroprotective treatments are the advantages of this book. Finally, this book will hopefully convey the clinical aspects of TBI and help guide diagnosis and therapeutic research in this field.

Mild Traumatic Brain Injury - Dominic A. Carone, Ph.D. 2012-08-22

This authoritative volume is the first book specifically devoted to symptom validity assessment with individuals with a known or suspected history of mild traumatic brain injury (MTBI). It brings together leading experts in MTBI, symptom validity

assessment, and malingering to provide a thorough and practical guide to the challenging task of assessing the validity of patient presentations after an MTBI. The book describes techniques that can drastically alter case conceptualization, treatment, and equitable allocation of resources. In addition to covering the most important symptom validity assessment methods, this timely volume provides guidance to clinicians on professional and research issues, and information on symptom validity testing in varied populations. The book covers MTBI assessment in such specific settings and populations as clinical, forensic, sports, children, gerontological, and military. It also addresses professional issues such as providing feedback to patients about symptom validity, ethical issues, and diagnostic schemas. Mild Traumatic Brain Injury will provide neuropsychologists,

referring health care providers, courts, disability insurance companies, the military, and athletic teams/leagues with the in-depth, current information that is critical for the accurate and ethical evaluation of MTBI. Key Features: Provides in-depth, expert coverage of one of the most critical topics for clinical neuropsychologists Includes contributions from the leading authorities on both MTBI/post-concussive syndrome and malingering/symptom validity Covers assessment in such contexts as civil forensics, sports, military/veterans, and gerontological settings

Concussion - Blessen Eapen 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.

Concussion E-Book - Blessen Eapen 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.
Tackling the Concussion Epidemic -
Tom A. Schweizer 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-Related Concussion - Brian Sindelar
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.

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.

The Evaluation and Treatment of Mild Traumatic Brain Injury - Nils R. Varney
1999-05-01

Moving beyond the debate over whether and to what degree mild head injury has lasting neuropsychological sequelae, this book is predicated on the assumption that it

does cause some problems in some circumstances for some people. It focuses on the practical questions of who is injured, how injuries manifest themselves, and what evaluation and treatment strategies are optimal, for families as well as patients. The distinguished authors bring to their task not only scientific expertise but extensive day-to-day clinical experience. This book will be widely welcomed as the first comprehensive overview of what we have learned from research and clinical experience about these difficult cases.

Handbook of Neurological Sports Medicine
- Anthony L. Petraglia 2014-08-28

Handbook of Neurological Sports Medicine: Concussion and Other Nervous System Injuries in the Athlete presents techniques for diagnosis and treatment of head-related injuries to enable medical professionals to provide the best care possible. Authored by a respected team of neurosurgeons,

including highly regarded concussion researcher Julian Bailes, this evidence-based reference offers expert guidelines for managing these serious injuries. A strong focus is placed on concussion due to the risk involved with this common injury. The text outlines how to recognize, assess, and treat concussions, preparing practitioners to calmly respond to athletes who are exhibiting signs of this dangerous condition. It also reviews the biomechanics and pathophysiology at the core of concussions to better understand their clinical presentations. Critical return-to-play guidelines and participation recommendations for patients with preexisting neurological conditions or structural lesions arm medical professionals with the principles needed for making appropriate decisions for athletes' safety. The text explains the roles of pharmacological management, natural

treatment approaches, rehabilitation strategies, and education. In addition, chapters provide coverage of postconcussion syndrome, subconcussion, and second-impact syndrome. Handbook of Neurological Sports Medicine also takes a look at other traumatic injuries, including injuries to the cervical, thoracic, and lumbar spine, and the soft tissue and fascia within the spinal unit. It provides an overview of peripheral nervous system injuries to ensure medical professionals understand those serious and potentially career-ending issues, reviews facets of optimal response with suspected or proven spinal injury, and discusses the evaluation and management of athletes with non-concussion-related headaches and heat illness or heatstroke. The text includes additional features to address issues surrounding critical injuries:

- Guidance on developing an action plan for athletic

events prepares first responders for emergency situations. • A review of cases of interest provides examples of situations that can—and do—occur. • Medicolegal considerations educate practitioners about negligence, standard of care, and proximate cause. • More than 150 photos and illustrations offer visual support to further explain the injuries. The evaluation and management of sport-related neurological injuries have matured at an unprecedented rate. *Handbook of Neurological Sports Medicine* is a critical resource for all who encounter and treat neurological injuries, providing the foundation for the clinical decisions that all athletic medical practitioners must make to give their patients the best treatment possible. Continuing education credits and units may also be earned based on the subject matter in this book. Explore online CE course options in Human Kinetics' Continuing

Education store.

Sports Concussions - Isabelle Gagnon
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.

Concussion Competencies - Jonathan Lichtenstein
2019-11-11

This book presents necessary information and data for people working with concussion recovery or experiencing a concussion, especially of a sports-related nature. There is currently no defined body of knowledge presented to practitioners, a

lacuna this book serves to fill. While medical attention is often needed at the initial stage of treatment, the most important parts of ongoing treatment are behavioural, specifically managing and monitoring the patient and engaging them in “active rehabilitation” strategies. The competencies described here address multiple constituencies, from medical personnel to patients. The book is designed to direct the reader to appropriate sections in a straightforward manner supported by evidence and research. Its core focus is on schools in the US, where the majority of sports-related concussion occur and are managed. However, the knowledge competencies detailed here are broad enough to provide a solid education in concussions, and what to do about them, across various environments.

Visual Disturbance and Post-concussion Testing - Adam C. Bennati 2014

Over the last decade, there has been significant growth in occurrence and/or recognition of sport-related concussion and post-concussion syndrome. This has been accompanied by increasing media attention, growth in research dollars, and public health policy related changes to address the issue. Tools such as the Immediate Post-Concussion Assessment and Cognitive Testing (ImpACT) have been increasingly utilized to evaluate players' symptoms and assist in making return-to-play decisions. A variety of post-concussion symptoms have been reported; however, there has been a lack of research addressing the effects of visual disturbance on ImpACT scores. The present study attempted to identify any effects of a post-concussion visual disturbance on the ImpACT composite scores. The participants included junior high school, high school and college athletes from southeastern Pennsylvania

who were divided into groups based on self-reported visual symptoms. This study utilized a quasi-experimental, nonequivalent groups design. One-way MANOVA was used to analyze the data and examine group differences. Tests of between-subjects effects yielded significant differences between the High Sensitivity to Light (HSL) and Low Sensitivity to Light (LSL) groups, as well as the High Visual Problems (HVP) and Low Sensitivity to Light (LSL) groups, in the Verbal Memory, Visual Memory, and Reaction Time composites. Significant differences between the Low Sensitivity to Light (LSL) and the Low Visual Problems (LVP) groups were found for the Reaction Time composite. Identifying effects of visual problems and sensitivity to light on the ImPACT composite scores would have implications for alternative approaches to the assessment of concussions with these

presenting symptoms.

Translational Research in Traumatic Brain Injury - Daniel Laskowitz

2015-12-01

Traumatic brain injury (TBI) remains a significant source of death and permanent disability, contributing to nearly one-third of all injury related deaths in the United States and exacting a profound personal and economic toll. Despite the increased resources that have recently been brought to bear to improve our understanding of TBI, the development of new diagnostic and therapeutic approaches has been disappointingly slow. Translational Research in Traumatic Brain Injury attempts to integrate expertise from across specialties to address knowledge gaps in the field of TBI. Its chapters cover a wide scope of TBI research in five broad areas: Epidemiology Pathophysiology Diagnosis Current treatment strategies and sequelae

Future therapies Specific topics discussed include the societal impact of TBI in both the civilian and military populations, neurobiology and molecular mechanisms of axonal and neuronal injury, biomarkers of traumatic brain injury and their relationship to pathology, neuroplasticity after TBI, neuroprotective and neurorestorative therapy, advanced neuroimaging of mild TBI, neurocognitive and psychiatric symptoms following mild TBI, sports-related TBI, epilepsy and PTSD following TBI, and more. The book integrates the perspectives of experts across disciplines to assist in the translation of new ideas to clinical practice and ultimately to improve the care of the brain injured patient.

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.

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.

Sports-Related Concussions in Youth - National Research Council 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.

Managing Concussions in Schools -

Susan Davies, Ed.D., 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

Rehabilitation After Traumatic Brain Injury - Blessen C. Eapen 2018-01-24

Covering the full spectrum of rehabilitation after traumatic brain injury, this practical reference by Drs. Blessen C. Eapen and David X. Cifu presents best practices and considerations for numerous patient populations and their unique needs. In an easy-to-read, concise format, it covers the key information you need to guide your treatment plans and help patients relearn critical life skills and regain their independence. Covers neuroimaging,

neurosurgical and critical care management, management of associated complications after TBI, pharmacotherapy, pain management, sports concussion, assistive technologies, and preparing patients for community reintegration. Discusses special populations, including pediatric, geriatric, and military and veteran patients. Consolidates today's available information and guidance in this challenging and diverse area into one convenient resource.

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.

Brain Injury Medicine, 2nd Edition - David B. Arciniegas, MD 2012-08-27

Brain Injury Medicine - which includes free ebook access with every print purchase - is a clear and comprehensive guide to all aspects of the management of traumatic brain injury-from early diagnosis and evaluation through the post-acute period and rehabilitation. An essential reference for physicians and other health care professionals who work with patients with brain injury, the book focuses on assessment and treatment of the wider variety of clinical problems these patients face and addresses many associated

concerns such as epidemiology, ethical issues, legal issues, and life-care planning. Written by over 190 acknowledged leaders, the text covers the full spectrum of the practice of brain injury medicine including principles of neural recovery, neuroimaging and neurodiagnostic testing, prognosis and outcome, acute care, rehabilitation, treatment of specific populations, neurologic and other medical problems following injury, cognitive and behavioral problems, post-trauma pain disorders, pharmacologic and alternative treatments, and community reentry and productivity. Brain Injury Medicine, 2nd Edition Features: The acknowledged gold standard reference-brings together knowledge, experience, and evidence-based medicine Comprehensive and current-completely revised, updated, and expanded to include emerging topics and the latest clinical and research advances Multi-disciplinary focus-

expert authorship from a wide range of specialties promotes a holistic team approach to a complex, many-faceted condition Covers the entire continuum of care from early diagnosis and assessment through acute management, rehabilitation, associated medical and quality of life issues, and functional outcomes New to the Second Edition: Three new Associate Editors from related disciplines provide added expertise Five new sections: acute rehabilitative care, pediatric TBI, special senses, autonomic and other organ system problems, post-trauma pain disorders 25 new chapters running the gamut from health policy to biomechanics, to military TBI to pediatric issues and more Print + Digital Access: Purchase price includes enhanced e-book containing the complete and fully searchable text plus additional digital-only content

The Little Black Book of

Neuropsychology - Mike R. Schoenberg
2011-01-11

From translating the patient's medical records and test results to providing recommendations, the neuropsychological evaluation incorporates the science and practice of neuropsychology, neurology, and psychological sciences. The Little Black Book of Neuropsychology brings the practice and study of neuropsychology into concise step-by-step focus—without skimping on scientific quality. This one-of-a-kind assessment reference complements standard textbooks by outlining signs, symptoms, and complaints according to neuropsychological domain (such as memory, language, or executive function), with descriptions of possible deficits involved, inpatient and outpatient assessment methods, and possible etiologies. Additional chapters offer a more traditional approach to evaluation,

discussing specific neurological disorders and diseases in terms of their clinical features, neuroanatomical correlates, and assessment and treatment considerations. Chapters in psychometrics provide for initial understanding of brain-behavior interpretation as well as more advanced principals for neuropsychology practice including new diagnostic concepts and analysis of change in performance over time. For the trainee, beginning clinician or seasoned expert, this user-friendly presentation incorporating 'quick reference guides' throughout which will add to the practice armentarium of beginning and seasoned clinicians alike. Key features of The Black Book of Neuropsychology: Concise framework for understanding the neuropsychological referral. Symptoms/syndromes presented in a handy outline format, with dozens of charts and tables. Review of basic neurobehavioral

examination procedure. Attention to professional issues, including advances in psychometrics and diagnoses, including tables for reliable change for many commonly used tests. Special "Writing Reports like You Mean It" section and guidelines for answering referral questions. Includes appendices of practical information, including neuropsychological formulary. The Little Black Book of Neuropsychology is an indispensable resource for the range of practitioners and scientists interested in brain-behavior relationships. Particular emphasis is provided for trainees in neuropsychology and neuropsychologists. However, the easy to use format and concise presentation is likely to be of particular value to interns, residents, and fellows studying neurology, neurological surgery, psychiatry, and nurses. Finally, teachers of neuropsychological and neurological

assessment may also find this book useful as a classroom text. "There is no other book in the field that covers the scope of material that is inside this comprehensive text. The work might be best summed up as being a clinical neuropsychology postdoctoral residency in a book, with the most up to date information available, so that it is also an indispensable book for practicing neuropsychologists in addition to students and residents...There is really no book like this available today. It skillfully brings together the most important foundations of clinical neuropsychology with the 'nuts and bolts' of every facet of assessment. It also reminds the more weathered neuropsychologists among us of the essential value of neuropsychological assessment...the impact of the disease on the patient's cognitive functioning and behavior may only be objectively quantified through a neuropsychological assessment."

Arch Clin Neuropsychol (2011) first published online June 13, 2011 Read the full review acn.oxfordjournals.org

[Vertigo Rehabilitation Protocols](#) - Dario Carlo Alpini 2014-05-21

This book describes in detail rehabilitation protocols specific for those disorders that most frequently induce vertigo and dizziness. In particular, it highlights exercise protocols that will enable the best result to be obtained within the shortest time and with the most enduring therapeutic effect. Drawing on their personal experience, the authors describe physical exercises that will prove effective in delivering vestibular rehabilitation all over the world, regardless of the rehabilitation tools available. The presented protocols cover vertigo in a wide range of conditions. Helpful information is also provided on the clinical approach to vertigo and dizziness, vestibular rehabilitation from

Cawthorne-Cooksey onward and the role of life-style counseling. By documenting effective functional and therapeutic approaches, Vertigo Rehabilitation Protocols will be an invaluable resource for neurologists, ENT physicians, orthopedists and rehabilitation specialists.

Coping with Concussion and Mild Traumatic Brain Injury - Diane Roberts Stoler Ed.D. 2013-11-05

A comprehensive guide for improving memory, focus, and quality of life in the aftermath of a concussion. Often presenting itself after a head trauma, concussion— or mild traumatic brain injury (mTBI)— can cause chronic migraines, depression, memory, and sleep problems that can last for years, referred to as post concussion syndrome (PCS). Neuropsychologist and concussion survivor Dr. Diane Roberts Stoler is the authority on all aspects of the recovery process. Coping with Concussion

and Mild Traumatic Brain Injury is a lifeline for patients, parents, and other caregivers.

Pediatric and Adolescent Concussion - Jennifer Niskala Apps 2011-12-15

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.

Back in the Game - Jeffrey S. Kutcher 2016-08-25

Back in the Game: Why Concussion Doesn't Have to End Your Athletic Career is a

timely discussion of sports concussions based on science. The book does not dwell on perpetuating fears about sports and concussion, but rather, having a real-world discussion about what science and medicine knows, what parents and coaches need to understand about the brain injury, evaluation and treatment, and possible post-concussive issues and depression. *Concussions in Athletics* - Semyon M. Slobounov 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.