

Concussions in Athletics

From Brain to Behavior

Semyon M. Slobounov
Wayne J. Sebastianelli
Editors



Springer

Concussions In Athletics From Brain To Behavior

Eric E. Hall, Caroline J. Ketcham



Concussions In Athletics From Brain To Behavior:

Concussions in Athletics Semyon M. Slobounov, Wayne J. Sebastianelli, 2021-08-18 Now in a fully revised and expanded second edition this comprehensive text remains a timely and major contribution to the literature that addresses the neuromechanisms predispositions and latest developments in the evaluation and management of concussive injuries Concussion also known as mild traumatic brain injury continues to be a significant public health concern with increased attention focusing on treatment and management of this puzzling epidemic as well as controversies within the field The book is comprised of five thematic sections current developments in evaluation biomechanical mechanisms neural substrates biomarkers genetics and brain imaging pediatric considerations and clinical management and rehabilitation Since the publication of the original edition in 2014 much has changed regarding the current understanding of mild traumatic brain injury including development of more precise imaging modalities development and classification of new biomarkers and updates to clinical treatment and management of athletic concussion This new edition will include new chapters targeting the influence of genetics on concussive injury as well as an expansion on the knowledge of pediatric response to concussion and the influence of repetitive subconcussive impacts on athlete health An invaluable contribution to the literature

Concussions in Athletics From Brain to Behavior reestablishes itself as a state of the art reference that will be of significant interest to a wide range of clinicians researchers administrators and policy makers and this updated version aims to narrow the gap between research findings and clinical management of sports related concussion and other mild traumatic brain injury The second edition also attempts to broaden the scope of the knowledge to apply to more professionals and pre professionals in the fields of neuroscience neuropsychology and other allied health professionals that closely work with athletes and sports medicine professionals

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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

Psychological Aspects of Sport-Related Concussions Gordon Bloom, Jeffrey Caron, 2019-03-13 Recognition of concussion as a serious injury informed by neurological and physiological research is now commonplace in sport However research on the psychology of concussive injury its psychological implications and outcomes and psychological interventions for prevention and recovery has largely been overlooked This is the first book to explicitly and authoritatively set out the psychological aspects of sport related concussion from a multidisciplinary and global perspective The book attempts to offer a global understanding of the injury by presenting an historical overview exploring the psychological implications of sport related concussion and the influence of gender and sociocultural context on concussive injury and recovery setting out practical guidance on working with special populations suffering from concussive injuries and discussing the theoretical and methodological considerations for research on concussion and future directions for this research Written by a group of leading international experts and offering a hitherto underdeveloped perspective on this crucial area of sports injury research this book is crucial reading for any upper level student researcher sport scientist

coach or allied health professional working on sport related concussion It is also valuable reading for students and researchers interested in the psychosocial processes that impact injury and recovery or general professional practice in sport psychology

Concussion-Ology Harry Kerasidis M.D,2015-09-10 A new field of medicine is emerging Concussionology and it has massive consequences on the health and welfare of athletes livelihood This guidebook provides basic training for athletes parents and coaches as well as more in depth training of concussions for athletic trainers and other medical professionals In Concussionology Dr Harry Kerasidis Outlines his own clinical caliber concussion protocol Reveals who is more vulnerable to concussions Gives requirements for concussion baseline tests Provides neurological basics about the brain injury and behavior Offers practical steps to handling concussions and more What theyre saying a full all inclusive approach to the management of sports related concussions Dr Alan Ashare USA Hockey Board of Director Dr Kerasidis is forward thinking intellectually brilliant This book is a reflection of that genius straightforward smart and leading edge Erin Sharoni National TV Sports Personality Dr Kerasidis explains the brain in user friendly terms including how it functions normally and how it responds in concussion This book is a clear call to action for players parents coaches and loved ones Theodore Henderson MD PhD Child Adolescent and General Psychiatry Dr Kerasidis expertise in concussions and concussion management has taught me what I need to know and helped me become a better athletic trainerand implement a first class concussion management program Stephanie Guzzo Assistant Athletic Trainer St Marys College of Maryland

Handbook of Pediatric Neuropsychology Andrew S. Davis,2010-10-25 By far the most comprehensive and detailed coverage of pediatric neuropsychology available in a single book today Davis provides coverage of basic principles of pediatric neuropsychology but overall the work highlights applications to daily practice and special problems encountered by the pediatric neuropsychologist Cecil R Reynolds PhD Texas A M University The breadth and depth of this body of work is impressive Chapters written by some of the best researchers and authors in the field of pediatric neuropsychology address every possible perspective on brain behavior relationships culminating in an encyclopedic text This book reflects how far and wide pediatric neuropsychology has come in the past 20 years and the promise of how far it will go in the next Elaine Fletcher Janzen EdD NCSP ABPdN The Chicago School of Professional Psychology it would be hard to imagine a clinical situation in pediatric neuropsychology in whichthis book would fail as a valuable resource Archives of Clinical Neuropsychology I believe there is much to recommend this hefty volume It is a solid reference that I can see appreciating as a resource as I update my training bibliography Journal of the International Neuropsychological Society This landmark reference covers all aspects of pediatric neuropsychology from a research based perspective while presenting an applied focus with practical suggestions and guidelines for clinical practice Useful both as a training manual for graduate students and as a comprehensive reference for experienced practitioners it is an essential resource for those dealing with a pediatric population This handbook provides an extensive overview of the most common medical conditions that neuropsychologists encounter while dealing with

pediatric populations It also discusses school based issues such as special education law consulting with school staff and reintegrating children back into mainstream schools It contains over 100 well respected authors who are leading researchers in their respective fields Additionally each of the 95 chapters includes an up to date review of available research resulting in the most comprehensive text on pediatric neuropsychology available in a single volume Key Features Provides thorough information on understanding functional neuroanatomy and development and on using functional neuroimaging Highlights clinical practice issues such as legal and ethical decision making dealing with child abuse and neglect and working with school staff Describes a variety of professional issues that neuropsychologists must confront during their daily practice such as ethics multiculturalism child abuse forensics and psychopharmacology

Concussions in Athletics Eric E. Hall, Caroline J. Ketcham, 2017 Eric E Hall PhD has expertise in the area of exercise psychology focusing on how physical activity affects mental health e g affect and cognition and the underlying neuroscientific mechanisms Dr Hall has been forming collaborations around concussion work since 2009 and has been co principal investigator on two grants from American Medical Society for Sports Medicine He has served on the NCAA Committee on Competitive Safeguards and Medical Aspects of Sports and is currently on the NCAA Concussion Protocol Committee He is also on the editorial board for the journals Psychology of Sport and Exercise as well as Sports His excellence in research and mentorship has been recognized at Elon Caroline J Ketcham PhD has expertise in the area of motor control and focuses on how movements are controlled organized and coordinated Her work includes assessing movement and developing therapeutic interventions for neurodiverse populations to improve coordination and integration Caroline s expertise in balance assessment and sensorimotor integration were incorporated into Elon s concussion work 4 years ago and she has continued to lead on investigations between neurocognitive and motor function in brain injury and recovery Together Drs Hall and Ketcham established and Co Direct Elon BrainCARE Research Institute with a mission to 1 help create a supportive environment for students and student athletes to become educated concerning the potential impact of concussions through evidence based practices and research and 2 to create health promoting environments that support resilience and positive mental wellness Since 2012 Elon BrainCARE has resulted in over 40 presentations at regional national and international conferences published over 10 papers and mentored or co mentored over 25 undergraduate students engaged in Elon BrainCARE research In addition Hall and Ketcham have organized and hosted annual symposia for 4 years inviting the Elon and surrounding community The goal is to provide concussions education for parents and youth sport leaders in the area along with Elon and surrounding university concussion researchers and practitioners Some of the seminal work from Elon BrainCARE includes an evidence informed return to learn protocol for collegiate student athletes and understanding modifiers that affect baseline performance and recovery from a concussive injury in neurocognition balance gait and symptom reporting Elon BrainCARE Research Institute not only serves as a service to sports medicine and student health

staff at Elon but also a model of co mentored undergraduate research training for students headed into both academic and clinical health profession fields

Book Description Sports related concussions and the implications of short and long term outcomes is a concern to athletes parents coaches academics and health care professionals Leading clinicians and scientists across a variety of fields have come together to collaborate around topics related to concussion education assessment management and treatment of head injuries that occur in sports Athletes of all levels not only have to perform on the field but may also have to perform in the classroom where symptoms of a concussion can have profound impacts As health care professionals work to implement the best practices around concussive injuries scientists assess outcomes implications and emerging topics related to management and recovery This book aims to gather leaders in the field of concussion assessment and management to highlight the state of evidence based practice In addition authors explore emerging issues around the care of athletes in returning to play as well as returning to academic settings Concussion assessment and management is not a one size fits all concept and topics around pre existing factors like cultural ethnic and sex differences are essential to consider as we attempt to change reporting behaviors and positively impact recovery and outcomes from injury As new information continues to emerge the education assessment management and treatment of concussion evolves with the health and safety of athletes taking a front seat This book is a timely snapshot of concussion assessment and management and it is also a leader in emerging issues in the ever changing science and evidence based practice of sport related concussion research

Target Audience This book is targeted for a wide audience including scientists and health professionals doing concussion work as well as students parents and newcomers to concussion education and research

[Concussions in Athletics](#) Eric E. Hall, Caroline J. Ketcham, 2017

Sports related concussions and the implications of short and long term outcomes is a concern to athletes parents coaches academics and health care professionals Leading clinicians and scientists across a variety of fields have come together to collaborate around topics related to concussion education assessment management and treatment of head injuries that occur in sports Athletes of all levels not only have to perform on the field but may also have to perform in the classroom where symptoms of a concussion can have profound impacts As health care professionals work to implement the best practices around concussive injuries scientists assess outcomes implications and emerging topics related to management and recovery This book aims to gather leaders in the field of concussion assessment and management to highlight the state of evidence based practice In addition authors explore emerging issues around the care of athletes in returning to play as well as returning to academic settings Concussion assessment and management is not a one size fits all concept and topics around pre existing factors like cultural ethnic and sex differences are essential to consider as we attempt to change reporting behaviours and positively impact recovery and outcomes from injury As new information continues to emerge the education assessment management and treatment of concussion evolves with the health and safety of athletes taking a front seat This book is a timely snapshot of concussion assessment and management and it is

also a leader in emerging issues in the ever changing science and evidence based practice of sport related concussion research

Mild Traumatic Brain Injury Shane S. Bush, 2012-08-22 Print CourseSmart

Emergency Management for Sport and Physical Activity Douglas J. Casa, Rebecca L. Stearns, 2014-03-20 Includes Forward by National Football League Commissioner Roger Goodell Written by experts in the field Emergency Management for Sport and Physical Activity is designed to educate non Athletic Training majors on the ways in which to prevent sudden death during sport Often these non medical professionals are the first on the scene and must at times serve the vital role of first responder and immediately act on behalf of athletes lives Due to the rigorous training and conditioning programs that are being undertaken by athletes effective emergency management has become a growing concern This text includes the recently published positioning statement released by the National Athletic Trainers Association NATA which address many of the important topics discussed throughout the book It goes on to address the associations task force document on Preventing Sudden Death During Conditioning Sessions Key Features Web based scenarios are included for each chapter Includes case studies feature boxes and emergency action plans First aid methods and techniques are included as an appendix Include position statements put forth by the National Athletic Trainers Association NATA

Netter's Sports Medicine E-Book Christopher Madden, Margot Putukian, Eric McCarty, Craig Young, 2017-02-15 Edited by past presidents of the American Medical Society for Sports Medicine Netter's Sports Medicine 2nd Edition is a superbly illustrated go to sports medicine resource for the outpatient office the training room on the sideline and for certification preparation Designed for quick reference this interdisciplinary reference by Drs Christopher Madden Margot Putukian Eric McCarty and Craig Young is organized by both topic and sport so you can find what you need quickly Whether you are a primary care physician managing a common or unique musculoskeletal injury in an ambulatory setting an orthopaedic surgeon gaining insight about a medical or psychological problem foreign to the cast or operating room an athletic trainer figuring out a diagnosis in the training room or a physical therapist pursuing further in depth sports medicine knowledge this reference gives you the guidance you need to keep athletes and other active patients at the top of their game More than 1 000 superb Netter graphics tables figures pictures diagnostic images and other medical artwork highlight the easy to read bulleted text Ideal for the sports clinician team physician and any health care professionals who provide care to athletes and active individuals New chapters on travel considerations for the athlete EKG interpretation cardiac disease diagnostic imaging and ultrasound injury prevention protocols equestrian sports and rodeo medicine mixed martial arts and many more Up to date coverage of nutritional supplements eating disorders sports and pharmacology for chronic conditions and behavioral medicine and extreme and adventure sports

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

Applied Psychology in Everyday Life Christopher J. L. Cunningham, Brian J. O'Leary, 2011-07-12 The practice of psychology involves more than the clinical treatment of mental illness Although the media may perpetuate the view that all psychologists are healthcare professionals or specialists who deal with deviant or non normal behaviors the majority of psychologists study and practice in diverse areas of human functioning other than clinical psychology Psychology is the scientific study of human thought and behavior all human behavior It is a science with the same rigorous research standards as physics chemistry or biology This book showcases a variety of applications of psychological science in the areas of health law sports business religion and money It is an outgrowth of the River Cities Industrial Organizational Psychology Conference held at The University of Tennessee at Chattanooga USA in October 2008 The theme of the 2008 conference was Applying Psychology to Everyday Life We hope the content of this volume enhances your awareness of the importance of applied psychology and that it motivates

you to further explore its potential to impact our daily lives

Doc, When Can My Kid Play? Dr. Evan

Mladenoff,2024-09-24 After you get a bump on the head does it feel like everything has gone wrong in your life Do you feel like everything you do makes you worse Are you stressed out that your doctor does not know why your headaches get worse when you play and they never go away If the answer is yes you are like so many of my patients from everyday people to professional athletes who are frustrated fed up and want to get answers for why they feel so bad after they get hit in the head They are tired of going to ER or urgent care for relief They have taken the recommended drugs they ve been listening to coaches that say You re okay It s just a bruise Now get in there and play and parents who do not know what to do or who to turn to for answers Nobody has told them what they can and cannot do and whatever they do it makes them worse When all else fails they turn on themselves with a self deprecating attitude for poor implementation lack of discipline and lack of willpower But that s all about to change Doc When Can My Kid Play is about helping people take charge of their recovery from a concussion It is unique in its use of simple effective diagnostic capabilities that are readily available but not very well known or not favored or advertised in mainstream pharmaceutical driven health care Doc When Can My Kid Play is based on over forty years of taking care of professional college and high school level athletes who have hit their heads People who have been in car accidents mothers who have hit their heads while nursing their babies people who have fallen walking their dog or just getting up in the middle of the night to go to the bathroom and hitting their head while falling These patients received the standard level of care from their team the hospital ER department or from clinics positioned as specializing in sports medicine These people in all walks of life who sustained head trauma continue to have life altering problems and are looking for help Your search for answers of how to get help and what to do will be answered in Doc When Can My Kid Play

Winning the War Against Concussions in Youth Sports William White,Alan Ashare,Katharine White Msn,William White Msn,2014-09-04 Finally a youth sports head injury book with basic brain and life saving solutions Written for middle high school and college athletes parents and coaches Winning empowers readers with the key knowledge and basic tools needed to help prevent and offset brain damaging concussions and accumulated subconcussive impacts Winning the War Against Concussions in Youth Sports unveils a fast track brain wellness and safety solution for athletes 21 and under based on a patent pending innovation called Brain Performance Enhancement or BPE Called BPE Youth Fast Track this condensed version offers six best practices founded on Nobel Prize research findings and two new medical biosciences informing how to continuously improve the functioning preservation and growth of brain cells BPE Youth s quick win preemptive strike method also turns the tables on youth sports biggest day to day challenge youth playing head hurt by providing a Code of Honor and Behavior that successfully managed prevents this from happening For youth who play head hurt suffering another head injury can result in fatal or long term brain after effects This book engages players parents and coaches by sharing hot off the press neuroscience updates on youth sports head injuries in basic terms and offers this same approach for how BPE

Youth Fast Track helps prevent and offset concussive and subconcussive brain cell damage scientists have learned is more significant and longer lasting than previously realized Winning s authors include an international youth sports head injury physician safety advocate and former U S Air Force Officer who originated Head s Up Don t Duck for USA Hockey over 20 years ago adopted by most sports and two clinician scientists one of whom coached 3 high risk youth sports for two decades while raising five high school college athletes one multiply concussed and serving as COO and Chief Patient Care Officer at the nation s first brain and behavioral health hospital exclusively for patients under 21 This book also focuses on BPE Youth s capacity to enhance athletic performance and improve academic and socio emotional life a dream come true for youth athletes parents and coaches a select three some we call the Big 3 We leave no stone unturned that could prevent worst case concussion outcomes or longer term brain damage consequences every Big 3 s biggest fear even teaching about sports head injury s potential to cause serious mental illnesses including clinical depression in youth athletes and how to best address and treat this worrisome reality Finally in an unprecedented overture given the urgency to reduce youth sports head injuries now with all that is at stake with this emerging U S public health crisis soon to emerge globally as the brain injury research on the world s most popular sport soccer surfaces we ask the Big 3 to partner with us to help spread the word about BPE Youth Fast Track s Best Practices and Honor Code using their social media networks led by youth athletes of course This interactive style extends to requesting feedback from the Big 3 on Brain In Play s Facebook page for how we can improve BPE Youth Fast Track going forward

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 Handbook of Sport Neuropsychology Frank Webbe, 2011 both the perspective and the scope of this volume are well conceived and executed This book provides an important platform for developing expertise in a fascinating and growing field It is required reading from my students Archives of Clinical Neuropsychology The book will provide an excellent reference for health care providers in the area of concussion management and the increased emphasis on the incorporation of neurocognitive testing and the role of neuropsychologists This is information that needs to out in the Sports Medicine arena as to how to incorporate neuropsychologists in the Sports Medicine team Steven L Cole ATC Associate Athletic Director Internal Operations College of William and Mary Dr Webbe has used his vast knowledge and experience in the field of sports neuropsychology to create a superb road map which provides important information and direction for the study of sports concussion This handbook

reflects his skill in attracting some of the world's leaders in sports neuropsychology as chapter authors and his ability to organize and integrate their unique funds of knowledge From the Foreword by Jeffrey T Barth PhD University of Virginia School of Medicine An estimated 300 000 sport related concussions occur every year in the United States many of which lead to short or long term impairment or even sudden death Frank Webbe one of the foremost leaders in the field has compiled the most up to date comprehensive volume on sport neuropsychology currently available It presents through the contributions of leading practitioners in the field an exhaustive study of sport related concussions and the multitude of management and treatment issues that arise from them The handbook is structured within a conceptual framework which includes an overview of the field ethical considerations risk factors and mechanisms diagnosis and assessment and counseling and rehabilitation principles It integrates research findings from a wide variety of professional and amateur sports including football hockey boxing wrestling and others The book also addresses collateral effects of mild and traumatic head injury such as Alzheimer's disease Parkinson's disease and depression Synthesizing all the diverse facets of the burgeoning field of sport neuropsychology this clear and concise volume will serve as a springboard for research yet to be realized Key features Integrates knowledge from sports and exercise science with neuropsychology Includes the latest research on the role of neuroimaging and electrophysical approaches to understanding concussion Clarifies the professional training and ethical behavior of a sport neuropsychologist Highlights the emotional components of concussion Discusses the acute and chronic effects of repeated head trauma

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](#) Scott DeAngelis, 2018

Violent Impacts Kathryn Henne, Matt Ventresca, 2025-08-05 A free ebook version of this title is available through Luminos University of California Press's Open Access publishing program Visit www.luminosoa.org to learn more Concerns regarding brain injury in sport have escalated into what is often termed a concussion crisis fueled by high profile lawsuits and deaths Although athletes are central figures in this narrative they comprise only a small proportion of the people who experience brain injuries while other high risk groups including victims of domestic violence and police brutality are all too often left out of the story In **Violent Impacts** Kathryn Henne and Matt Ventresca examine what is and what isn't captured in popular discourse scrutinizing how law science and social inequalities shape depictions and understandings of brain injury Drawing on research carried out in Australia Canada and the United States they illustrate how structural violence centers certain bodies as part of the concussion crisis while pushing others to the margins

Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, Witness the Wonders in **Concussions In Athletics From Brain To Behavior** . This immersive experience, available for download in a PDF format (*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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Concussions In Athletics From Brain To Behavior Introduction

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