

Attention Memory Of Tbi Traumatic Brain Injury

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

"Neuropsychological Rehabilitation provides useful introductory material and background information on various disorders, assessments, and rehabilitative interventions for adult and geriatric populations...This book is essential for psychologists or clinical neuropsychologists who have a strong interest in understanding the current medical aspects of neuropsychological rehabilitation."--PsycCRITIQUES This volume disseminates knowledge about the most advanced practices and techniques in the rehabilitation of neuropsychological deficits, covering both specific neuropsychological domains and approaches in neurorehabilitation. It adheres to the philosophy that it is not enough to identify a deficit or diagnose a disease unless doing so helps to direct rehabilitation efforts to improve function. Intended to advance clinical skills, the book goes beyond surface diagnostic practice to foster rehabilitative efforts in response to residual deficits and disease. The volume begins by addressing the foundations of neuropsychology in rehabilitation and discussing, in depth, domain-specific rehabilitation practices, with a focus on functioning. This is followed by a discussion of supplemental applications and practices that go beyond function-specific methodology including neuroimaging and pharmacological agents. Also covered is the role of system/environmental manipulation and transitioning strategies. The final section attends to those presentations/groupings most commonly seen in rehabilitation practice for which there is no prototypical form. Key Features: Presents in depth the most advanced clinical applications for neuropsychological rehabilitation Covers neuropsychological rehabilitation in terms of specific cognitive domains (attention, language, memory) and approaches to and practices in neurorehabilitation (neuroimaging, vocational rehabilitation, pharmacological rehabilitation) Written by the foremost scholars in the field

In the past 25 years, the frontal lobes have dominated human neuroscience research.

Read Book Attention Memory Of Tbi Traumatic Brain Injury

Functional neuroimaging studies have revealed their importance to brain networks involved in nearly every aspect of mental and cognitive functioning. Studies of patients with focal brain lesions have expanded on early case study evidence of behavioral, emotional, and cognitive changes associated with frontal lobe brain damage. The role of frontal lobe function and dysfunction in human development (in both children and older adults), psychiatric disorders, the dementias, and other brain diseases has also received rapidly increasing attention. In this useful text, 14 leading frontal lobe researchers review and synthesize the current state of knowledge on frontal lobe function, including structural and functional brain imaging, brain network analysis, aging and dementia, traumatic brain injury, rehabilitation, attention, memory, and consciousness. The book therefore provides a state-of-the-art account of research in this exciting area, and also highlights a number of new findings by some of the world's top researchers.

Research into the rehabilitation of individuals following Traumatic Brain Injury (TBI) in the past 15 years has resulted in greater understanding of the condition. The second edition of this book provides an updated guide for health professionals working with individuals recovering from TBI. Its uniquely clinical focus provides both comprehensive background information, and practical strategies for dealing with common problems with thinking, memory, communication, behaviour and emotional adjustment in both adults and children. The book addresses a wide range of challenges, from those which begin with impairment of consciousness, to those occurring for many years after injury, and presents strategies for maximising participation in all aspects of community life. The book will be of use to practising clinicians, students in health disciplines relevant to neurorehabilitation, and also to the families of individuals with traumatic brain injury.

Neural Plasticity and Cognitive Development focuses on children who suffered focal brain insult (typically stroke) in the pre- or perinatal period which provides a model for exploring the dynamic nature of early brain and cognitive development.

Despite the increased public awareness of traumatic brain injury (TBI), the complexities of the neuropsychiatric, neuropsychological, neurological, and other physical consequences of TBI of all severities across the lifespan remain incompletely understood by patients, their families, healthcare providers, and the media. Keeping pace with advances in the diagnosis, treatment, and science of TBI, the Textbook of Traumatic Brain Injury, Third Edition, comprehensively fills this gap in knowledge. Nearly all 50 chapters feature new authors, all of them experts in their field. Chapters new to this edition include biomechanical forces, biomarkers, neurodegenerative dementias, suicide, endocrine disorders, chronic disease management, and social cognition. An entirely new section is devoted to the evaluation and treatment of mild TBI, including injuries in athletes, military service members and veterans, and children and adolescents. These chapters join newly updated sections on the assessment and treatment of the cognitive, emotional, behavioral, and other physical sequelae of TBI. The Textbook of Traumatic Brain Injury is a must-read for all of those working in any of the multitude of disciplines that contribute to the care and rehabilitation of persons with brain injury. This new volume is also a potentially useful reference for policymakers in both the public and private sectors.

The book includes a useful glossary, a list of resources, and suggestions for further reading.

"All professionals working in the field of TBI will want to purchase this book as it brings together the latest research in this complex area. Contributors from around the globe provide the latest information on historical, medical, cognitive, emotional, psychosocial and pharmacological issues in TBI. Also included are discussions of areas rarely addressed such as blast injuries and TBI in elderly people."---Professor Barbara A. Wilson, Oliver Zangwill Centre For Rehabilitation, Ely, United Kingdom --Book Jacket.

More and more Iraq war veterans are returning Stateside with brain injuries, drawing public attention to this condition. This practical, easy-to-use book gives brain injury survivors, their families, and their loved ones the strategies they need to boost brain function and live well. The book is a compendium of tips, techniques, and life-task shortcuts that author Cheryle Sullivan, a medical doctor and brain injury survivor, has compiled from personal experience. With a different tip for each day of the year, the book explains balancing a checkbook, using medication alarms, compensating for impaired memory, locating things that have been put away, finding the right word, concentration exercises, and much more. From basic principles to unique solutions for saving time and energy, this book is packed with helpful information for those coping with the special challenges of this surprisingly widespread condition.

A unique analysis of the pediatric and adult manifestations of the most common neuropsychological conditions treated in clinical practice.

A systematically organized text, it assesses how human performance changes with age. Based on an information processing framework, the contributors trace how age affects sensory and perceptual processing, memory, attention, and spatial performance, problem solving, physical performance, and workplace performance. Kelly Bouldin Darmofal suffered a severe TBI in 1992; currently she holds a Masters in Special Education from Salem College, NC. Her memoir *Lost In My Mind: Recovering From Traumatic Brain Injury (TBI)* tells her story of tragedy and triumph. Kelly will be teaching "TBI: An Overview for Educators" at Salem College. Kelly's "tips" were learned during two decades of recovery and perseverance; they include: Ways to avoid isolation and culture shock post-TBI Tips for staying organized in the face of instant chaos Strategies for caretakers and teachers of TBI survivors Life philosophies that reject despair How to relearn that shoes must match Why one alarm clock is never enough, and A breath of humor for a growing population with a "silent illness"--TBI Those who suffer from TBI should benefit from Kelly Darmofal's advice. She speaks often of the value of a sense of humor in dealing with TBI symptoms and quotes Viktor Frankl who believed that humor was one of the "...soul's weapons in the fight for self preservation." I strongly recommend her work. --Dr. George E. Naff, NCC, LPC, Diplomate in Logotherapy Kelly is a wonderful resource about TBI for survivors, caregivers, teachers, and the entire community. The wisdom gained from her own experience makes her believable; the frankness and sense of humor that she reveals as she writes makes her authentic... Kelly and her publications have become a trusted resource for our clients who are surviving from a TBI. --Barbara Saulpaugh, Regional Executive Director, CareNet Counseling, an affiliate of Wake Forest Baptist Health Learn more at www.ImLostInMyMind.com From Loving Healing Press www.LHPress.co

Compared to the mild TBI group, the severe TBI group also performed significantly worse on all but one of the memory/learning measures. Further, statistically significant correlations were found between each of the attentional domains and index scores of learning and memory. Findings suggest that severe TBI in children is associated with attentional and memory/learning deficits. Whether attention performance can predict memory functioning following TBI is continuing to be investigated. With an understanding of the nature of these deficits following TBI, appropriate rehabilitative interventions and strategies can be implemented to improve functioning. Interventions

of this form are particularly important given the frequency of head injury in children and the high demand for acquiring new information during the school-aged years.

On a sunny spring day, in an ordinary suburban kitchen, the phone rings. There's been an accident. In one heartbeat, a family's life is changed forever. After her husband, Hugh, is hit by a car while riding his bicycle, Rosemary Rawlins is plunged into twelve months of marathon caregiving, without the promise of a positive outcome. She works herself to the point of exhaustion to bring her grievously injured husband—who suffered a traumatic brain injury, necessitating the removal of half his skull—back home and back to himself. Then, as he slowly begins to reclaim his life, Rosemary falls apart. She can't sleep. Her heart pounds. Her joy and trust in the world dissolve into endless anxiety. She lays awake at night wondering how her marriage will survive. Will she ever be able to relate to Hugh again? What will become of their relationship? Their children? Do they recognize each other—literally—as the people they fell in love with and married decades ago? How can she let go of her fears? And what can she learn from them? *Learning by Accident* is a caregiver's story of ambiguous loss, family love, and emotional healing. This compelling personal account demonstrates with heart and humor that what we fear can be more debilitating than any physical injury. And that sometimes starting over is exactly what we need.

During the last three decades, there have been enormous advances in our understanding of the neural mechanisms of selective attention at the network as well as the cellular level. The *Oxford Handbook of Attention* brings together the different research areas that constitute contemporary attention research into one comprehensive and authoritative volume. In 40 chapters, it covers the most important aspects of attention research from the areas of cognitive psychology, neuropsychology, human and animal neuroscience, computational modelling, and philosophy. The book is divided into 4 main sections. Following an introduction from Michael Posner, the book starts by looking at theoretical models of attention. The next two sections are dedicated to spatial attention and non-spatial attention respectively. Within section 4, the authors consider the interactions between attention and other psychological domains. The last two sections focus on attention-related disorders, and finally, on computational models of attention. Aimed at both scholars and students, the *Oxford Handbook of Attention* provides a concise and state-of-the-art review of the current literature in this field.

Explores how the explosion of neuroscience-based evidence in recent years has led to a fundamental change in how forensic psychology can inform working with criminal populations. This book communicates knowledge and research findings in the neurobiological field to those who work with offenders and those who design policy for offender rehabilitation and criminal justice systems, so that practice and policy can be neurobiologically informed, and research can be enhanced. Starting with an introduction to the subject of neuroscience and forensic settings, *The Wiley Blackwell Handbook of Forensic Neuroscience* then offers in-depth and enlightening coverage of the neurobiology of sex and sexual attraction, aggressive behavior, and emotion regulation; the neurobiological

bases to risk factors for offending such as genetics, developmental, alcohol and drugs, and mental disorders; and the neurobiology of offending, including psychopathy, antisocial personality disorders, and violent and sexual offending. The book also covers rehabilitation techniques such as brain scanning, brain-based therapy for adolescents, and compassion-focused therapy. The book itself: Covers a wide array of neuroscience research Chapters by renowned neuroscientists and criminal justice experts Topics covered include the neurobiology of aggressive behavior, the neuroscience of deception, genetic contributions to psychopathy, and neuroimaging-guided treatment Offers conclusions for practitioners and future directions for the field. The Wiley Blackwell Handbook of Forensic Neuroscience is a welcome book for all researchers, practitioners, and postgraduate students involved with forensic psychology, neuroscience, law, and criminology.

First Published in 1996. Routledge is an imprint of Taylor & Francis, an informa company.

This timely book reports recent progress in research on traumatic brain injury (TBI) by leading investigators encompassing translational and clinical studies. The text covers epidemiology, pathophysiology, brain imaging, cognition, behavioral sequelae, and clinical trials of innovative treatments, including new approaches to rehabilitation. The range of TBI mechanisms represented in this cutting-edge book includes closed head trauma and blast-related injury, and the spectrum of TBI severity. Chapters offer a developmental perspective, including the effects of TBI on cognitive development in children and outcome studies in adults. Contributors from various countries provide a global perspective on this worldwide health problem. The editors have synthesized the contents in a concluding chapter. Researchers and clinicians will find this volume to be an informative, authoritative reference for current TBI research.

This book describes the evidence behind the application of Therapeutic Hypothermia on patients with injury to the brain and spinal cord, that includes ischemia reperfusion after cardiac arrest or asphyxiation, traumatic brain injury, acute ischemic stroke, hemorrhagic stroke, refractory intracranial hypertension, cerebral edema in acute liver failure, subarachnoid hemorrhage, as well as spinal cord injury. This book discusses the mechanisms by which therapeutic hypothermia can mitigate the pathophysiologies responsible for secondary brain injury, and provides information to help guide this treatment with regard to timing, depth, duration, and management of side-effects. The book also discusses the methods and technologies used to induce and maintain therapeutic hypothermia. It also describes how hypothermia can influence the ability to prognosticate these injured patients and provides grounds for future directions in the application of and research with therapeutic hypothermia.

A groundbreaking work by one of the world's foremost memory experts that offers the first framework to explain the basic memory miscues that we all encounter.

Daniel L. Schacter, chairman of Harvard University's Psychology Department, is

internationally recognised as one of the world's authorities on memory, explains that just as the seven deadly sins, the seven memory sins appear routinely in everyday life, and why it is a good thing that they happen and surprisingly vital to a keen mind. The author explains how transience reflects a weakening of memory over time, how absent-mindedness occurs when failures of attention sabotage memory and how blocking happens when we can't retrieve a name we know well. Three other sins involve distorted memories: misattribution (assigning a memory to the wrong source), suggestibility (implanting false memories), and bias (rewriting the past based on present beliefs). The seventh sin, persistence, concerns intrusive recollections that we cannot forget - even when we wish we could. Daniel Schacter illustrates decades of research into memory lapses with compelling, and often bizarre, examples - for example, the violinist who placed a priceless Stradivarius on top of his car before driving off and the national memory champion who was plagued by absentmindedness. This book also explores recent research, such as the imaging of the brain that actually shows memories being formed. Together the stories and scientific findings examined in *How The Mind Forgets and Remembers* will reassure everyone from twenty-somethings who find their lives too busy to those in their fifties and sixties who are worried about early Alzheimers. Beautifully written, this original book provides a fascinating new look at our brains and what we more generally think of as our minds.

Designed for clinicians and researchers, this is a guide to making differential diagnoses using commonly employed neuropsychological tasks and test measures using meta-analysis. The book contains a compendium of neuropsychological profiles for practitioners and students of neuropsychology, behavioural neurology, psychiatry and speech pathology, and others whose work brings them into contact with patients suffering from common neurological and neuropsychiatric diseases.

Traumatic brain injury (TBI) syndrome has emerged as a serious health concern worldwide due to the severity of outcomes and growing socioeconomic impacts of the diseases, e.g., high cost of long-term medical care and loss of quality of life. This book focuses on the TBI pathobiology as well as on the recent developments in advanced diagnostics and acute management. The presented topics encompass personal experience and visions of the chapter contributors as well as an extensive analysis of the TBI literature. The book is addressed to a broad audience of readers from students to practicing clinicians.

The book does not adopt a particular theoretical orientation but tries to clarify the various conceptualizations of attention that are encountered in the literature.

Throughout, the book critically reviews the literature on attentional deficits in frequently occurring neurological conditions such as traumatic brain injury, Alzheimer's disease, Parkinson's disease, and epilepsy. This material is organized according to the types of tasks used to investigate attention, such as tests of focused, divided, and sustained attention.

This book collects and synthesizes the latest thinking on the condition in its variety of

cognitive and behavioral presentations, matched by a variety of clinical responses. Acknowledging the continuum of injury and the multi-stage nature of recovery, expert contributors review salient research data and offer clinical guidelines for the neuropsychologist working with TBI patients, detailing key areas of impairment, brief and comprehensive assessment methods and proven rehabilitation strategies. Taken together, these chapters provide a framework for best serving a wide range of TBI patients (including children, elders, and patients in multidisciplinary settings) and model treatment that is evidence-based and relevant. A sample of the topics featured in the Handbook: Bedside evaluations in TBI. Outcome assessment in TBI. Collaborating with family caregivers in the rehabilitation of persons with TBI. Behavioral assessment of acute neurobehavioral syndromes to inform treatment. Pediatric TBI: assessment, outcomes, intervention. Special issues with mild TBI in veterans and active duty service members. Expanding professional knowledge on a topic that continues to grow in importance, the Handbook on the Neuropsychology of Traumatic Brain Injury is a premier resource, not only for neuropsychologists but also for other professionals in cognitive care, and trainees entering the field.

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 neurotrauma 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.

A great body of literature on traumatic brain injury (TBI) have noted difficulties with attentional processes and memory. These domains have been frequently studied as separate constructs. Therefore, the aim of this review was to study the ramifications of attention deficits on several memory domains following a TBI. Specifically, impairment in selective and sustained attention were reviewed in relationship to memory functions. Results revealed that overall, attention appears to have an impact on memory, whether recalling an event (episodic memory) or recalling the meaning of a word (semantic memory).

Evaluation of Diagnostic Systems: Methods from Signal Detection Theory addresses the many issues that arise in evaluating the performance of a diagnostic system, across the wide range of settings in which such systems are used. These settings include clinical medicine, industrial quality control, environmental monitoring and investigation, machine and metals inspection, military monitoring, information retrieval, and crime

investigation. The book is divided into three parts encompassing 11 chapters that emphasize the interpretation of diagnostic visual images by human observers. The first part of the book describes quantitative methods for measuring the accuracy of a system and the statistical techniques for drawing inferences from performance tests. The subsequent part covers study design and includes a detailed description of the form and conduct of an image-interpretation test. The concluding part examines the case study of a medical imaging system that serves as an example of both simple and complex applications. In this part, three mammographic modalities are used: industrial film radiography, low-dose film radiography, and xeroradiography. The case study focuses on the overall reliability of accuracy indices made by its main components, that is, the variabilities across cases, across readers, and within individual readers. The supplementary texts provide study protocols, a computer program for processing test results, and an extensive list of references that will assist the reader in applying those evaluative methods to diagnostic systems in any setting. This book is of value to scientists and engineers, as well as to applied, quantitative, or experimental psychologists who are engaged in the study of the human processes of discrimination and decision making in either perceptual or cognitive tasks.

Cognitive Rehabilitation Therapy for Traumatic Brain Injury
Evaluating the Evidence
National Academies Press

A wide-range study of victims of head injury often reveals disorders that are neglected by less extensive examinations, and dispels the idea that there is usually a benign outcome. Focusing on a public health problem affecting millions of people of all ages, with approximately 1,300 references, *Concussive Brain Trauma: Neurobehavioral Impairment and Maladaptation* addresses such topics as the recognition of minor traumatic brain injury in the emergency room and clinical practice. The book is unique in its coverage of the personality changes, family dysfunction, and stress that often occur in wake of concussive brain trauma. Case examples illustrate persistent and acute alterations of consciousness, as well as cognitive, mood, personality, and social effects of head injury, in order to guide appropriate treatment. In addition, the book documents unfamiliar signs not included in the usual list of postconcussive symptoms. *Concussive Brain Trauma: Neurobehavioral Impairment and Maladaptation* stands alone as an in-depth, authoritative guide to the condition also described as closed head injury and "minor" traumatic brain injury.

This text brings together a contemporary collection of chapters that represents work being done in the area covering social and functional linguistic behaviour in adults and children. Since the bestselling second edition was published almost a decade ago, the field of brain injury treatment has undergone tremendous change, largely impacting access to treatment. But, while the healthcare marketplace has evolved, the needs of brain injury victims remain the same. With updated and expanded clinical coverage, *Traumatic Brain Injury: Rehabilitation, Treatment, and Case Management, Third Edition* delineates a broad spectrum of advanced theoretical clinical constructs and detailed diagnostic and treatment interventions for traumatic brain injury. *Details Specific Diagnostic and Treatment Approaches for Nearly All Aspects of Dysfunction Observed Following Brain Injury* With contributions from more than 50 authorities in both academia and industry, this highly respected text stands apart as a clinical guide to rehabilitative treatment of persons with traumatic brain injury following the acute phase of treatment. It provides a concise source of information about the scientific and therapeutic realms involved in the rehabilitation of a person with traumatic brain injury, specifically as they relate to persistent deficits. The book also details long-term consequences of brain injury and effective approaches to vocational rehabilitation and case management. Widening coverage

from the previous edition, this book includes details on: Metabolic and bioenergetic factors in brain injury Neuroendocrine dysfunction following brain injury Blast injury Ethical issues in treatment of brain injury Neuropharmacological and neuropsychological interventions following brain injury Interventions for the minimally conscious patient Dietary and exercise considerations after brain injury Traumatic Brain Injury: Rehabilitation, Treatment, and Case Management, Third Edition is a complete source of pharmacological, anatomical, and physiological information for basic therapeutic rationales that are often not well understood in the field. It is an ideal reference for both new and experienced clinicians.

Traumatic brain injury (TBI) may affect 10 million people worldwide. It is considered the "signature wound" of the conflicts in Iraq and Afghanistan. These injuries result from a bump or blow to the head, or from external forces that cause the brain to move within the head, such as whiplash or exposure to blasts. TBI can cause an array of physical and mental health concerns and is a growing problem, particularly among soldiers and veterans because of repeated exposure to violent environments. One form of treatment for TBI is cognitive rehabilitation therapy (CRT), a patient-specific, goal-oriented approach to help patients increase their ability to process and interpret information. The Department of Defense asked the IOM to conduct a study to determine the effectiveness of CRT for treatment of TBI.

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.

[Copyright: e448596ce613adbaf8e3759cbd98f8f2](#)