

# **Coma And Disorders Of Consciousness**

Steven Laureys, Olivia Gosseries, Giulio Tononi

#### Coma And Disorders Of Consciousness:

Coma and Disorders of Consciousness Caroline Schnakers, Steven Laureys, 2024-02-26 Coma and Disorders of Consciousness 3e is a fully revised new edition offering a comprehensive review of the field for clinicians and researchers in the field of disorders of consciousness Caring for patients with disorders of consciousness DOC such as unresponsive wakefulness syndrome vegetative state or minimally conscious state and related conditions such as locked in syndrome currently represent a financial medical and ethical conundrum Although severe brain injuries represent a fraction of the population with brain injury their cost is enormous around 4 billion in direct medical costs per year mostly due to the long term care they need The impressive number of studies performed on disorders of consciousness in the last decade has allowed refining diagnosis criteria acquiring a better understanding of prognosis and developing new tools to care and treat this challenging population In this context recently published milestone papers have provided new guidelines to clinicians for managing patients with DOC This should lead to a shift in mentality and in the way we care for these patients This book brings together researchers and clinicians to write about recent and future changes that will altogether improve the outcome Coma and Disorders of Consciousness: An Overview Shraddha Mainali, Neha of patients with DOC Dangayach, Christa O'Hana Nobleza, Olivia Gosseries, Aarti Sarwal, Leonard Polizzotto, Brian L. Edlow, 2024-02-28 Coma and Disorders of consciousness DoC result from disruptions of neural systems and connections that regulate arousal and awareness These terms encompass a spectrum of severity of illness due to a variety of modes and mechanisms of injury and lead to an enormous burden of morbidity and mortality Additionally Coma and DoC lead to a tremendous economic burden For perspective per 2010 USA data the Center for Disease Control and Prevention estimated a societal cost of over 76 billion dollars from traumatic brain injury alone Coma, Stupor, and Related Disorders of Consciousness Peter W. Kaplan, Romergryko G. Geocadin, 2025-02-26 Coma Stupor and Related Disorders of Consciousness reviews recent research and best practice in the assessment and treatment of coma stupor and disorders of consciousness It encompasses the neural circuits anatomy physiology of stupor and coma differential diagnosis and clinical assessment imagery EEGs therapy intervention decision making and prognosis Reviews recent advances in disorders of consciousness Provides neural circuits and anatomy of DoC Identifies basis for differential diagnosis Summarizes best practices for therapy intervention Includes Disorders of Consciousness, An Issue of Physical Medicine and Rehabilitation imagery EEG evoked potentials of DoC Clinics of North America, E-Book Sunil Kothari, Bei Zhang, 2023-11-24 In this issue of Physical Medicine and Rehabilitation Clinics quest editors Drs Sunil Kothari and Bei Zhang bring their considerable expertise to the topic of Disorders of Consciousness The past few years have seen many developments throughout the entire field of disorders of consciousness from neuroanatomy to the release of several clinical practice guidelines In this issue top experts in the field discuss key topics that bring you up to date with many of these changes Contains 15 relevant practice oriented topics including

neuroanatomy and neurophysiology of disorders of consciousness disorders of consciousness in the acute care setting assessment of consciousness behavioral evaluation assessment of consciousness technological modalities ethical considerations and more Provides in depth clinical reviews on disorders of consciousness offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based **Coma and Impaired Consciousness** Gordon Bryan Young,1998 This comprehensive resource examines every aspect of coma including r elated anatomy physiology neurochemistry and pharmacology new diagn ostic and therapeutic approaches and decision making and presents a clear clinical and investigative approach to the syndromes of impaired consciousness It is ungine blending of neuroscience with sound clinic all practice and modern management strategies creates a text that s emi nently useful in daily practice providing effective management strate gies that respect medical legal and ethical principles More than a s cholarly text this title addresses the hottest topics in the field in cluding side effects of modern therapies new techniques for clinical examination new methods of management in the ICU and much more The Neurology of Consciousness Steven Laureys, Olivia Gosseries, Giulio Tononi, 2015-08-12 The second edition of The Neurology of Consciousness is a comprehensive update of this ground breaking work on human consciousness the first book in this area to summarize the neuroanatomical and functional underpinnings of consciousness by emphasizing a lesional approach offered by the study of neurological patients Since the publication of the first edition in 2009 new methodologies have made consciousness much more accessible scientifically and in particular the study of disorders disruptions and disturbances of consciousness has added tremendously to our understanding of the biological basis of human consciousness The publication of a new edition is both critical and timely for continued understanding of the field of consciousness In this critical and timely update revised and new contributions by internationally renowned researchers edited by the leaders in the field of consciousness research provide a unique and comprehensive focus on human consciousness The new edition of The Neurobiology of Consciousness will continue to be an indispensable resource for researchers and students working on the cognitive neuroscience of consciousness and related disorders as well as for neuroscientists psychologists psychiatrists and neurologists contemplating consciousness as one of the philosophical ethical sociological political and religious questions of our time New chapters on the neuroanatomical basis of consciousness and short term memory and expanded coverage of comas and neuroethics including the ethics of brain death The first comprehensive authoritative collection to describe disorders of consciousness and how they are used to study and understand the neural correlates of conscious perception in humans Includes both revised and new chapters from the top international researchers in the field including Christof Koch Marcus Raichle Nicholas Schiff Joseph Fins and Michael Gazzaniga Vegetative State Ralf J. Jox, 2012 Decision making for patients in the vegetative state is a complex issue and needs an interdisciplinary discourse that combines different

perspectives This book is based on an international neuroethics workshop for young academics and health care practitioners that took place in Munich and was funded by the German Ministry of Education and Research BMBF Various competitively selected participants from different countries describe their scientific contributions or their clinical experiences Moreover experts from the field of medical ethics neuroethics and neuroscience contribute their perspectives Series Ethik in der Praxis Practical Ethics Studien Studies Vol 36 Ferri's Clinical Advisor 2025 - E-BOOK Fred F. Ferri, 2024-06-05 For more than 25 years Ferri's Clinical Advisor has provided immediate answers on the myriad medical diseases and disorders you re likely to encounter in a unique easy to use format A bestselling title year after year this popular 5 books in 1 reference delivers vast amounts of information in a user friendly manner It is updated annually to provide current and clinically relevant answers on over 1 000 common medical conditions including diseases and disorders differential diagnoses clinical algorithms laboratory tests and clinical practice guidelines all carefully reviewed by experts in key clinical fields Extensive algorithms along with hundreds of high quality photographs illustrations diagrams and tables ensure that you stay current with today s medical practice Contains significant updates throughout all 5 sections covering all aspects of diagnosis and treatment Features 26 all new topics including eosinophilic gastroenteritis EGE retroperitoneal abscess adenomyosis periprosthetic joint infection tonic pupil rectal adenocarcinoma nightmares and dream disturbances avoidance restrictive food intake disorder ARFID hypokalemia cardiac implantable electronic device infection heparin resistance and hypertrophic pyloric stenosis among others Includes useful appendices covering palliative care preoperative evaluation nutrition poison management commonly used herbal products in integrated medicine and much more Offers online access to newly revised and updated Patient Teaching Guides in both English and Spanish Coma Science Professor Laureys, 2009-10-07 This serial is firmly established as an extensive documentation of the advances in contemporary brain research Each volume presents authoritative reviews and original articles by invited specialists This volume concentrates on coma and consciousness science presenting articles from leading figures in the area on the clinical and ethical implications of work in this field The book provides a thorough review of the various aspects of coma science from a review of the concepts questioning of recent advances case studies through to where research in the field is heading Provides the reader with a unique overview of all aspects of new advances in coma science Broad focus with contributions by the top scientists worldwide in the respective disciplines **Disorders of Consciousness** G. Bryan Young, 2011 This issue of Neurologic Clinics addresses the cognitive impact of various forms of brain injury *Pathophysiological mechanisms of disorders of* consciousness: From the perspective of the abnormal neural oscillations Qiuyou Xie, Antonino Naro, Jianghong He, Pengmin Qin, Jiahui Pan, Yang Bai, Rocco Salvatore Calabrò, 2024-01-29 Ferri's Clinical Advisor 2024, E-Book Fred F. Ferri, 2023-06-13 For more than 25 years Ferri's Clinical Advisor has provided immediate answers on the myriad medical diseases and disorders you re likely to encounter in a unique easy to use format A bestselling title year after year this popular

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Incredible Consequences of Brain Injury Alexander R. Toftness,2022-11-11 Incredible Consequences of Brain Injury The Ways your Brain can Break explains the acquired brain disorders that can suddenly change a person s life Underlining the intricate workings of the human brain and the amazing things it does every day this book examines what happens when the brain stops functioning as it should Through the use of case studies and historical examples this concentrated collection of different neuropsychological conditions provides the reader a glimpse into the lived experiences of each disorder Each chapter is firmly rooted in relevant neuropsychological literature combined with easy to understand explanations and guided reflection In its essence this book is a celebration of the human brain and the myriad factors that make it up serving to

maintain hope in recovering from brain conditions and to marvel at the intricate workings of the brain This valuable compendium is essential for anyone who wants to learn more about how the brain functions and dysfunctions and will be equally useful for students instructors and healthcare workers It will further be of use to individuals with brain conditions and their dear ones and for the individuals who are interested in learning more about the human brain Neuroscience of Traumatic Brain Injury Rajkumar Rajendram, Victor R Preedy, Colin R. Martin, 2022-05-27 Diagnosis and Treatment of Traumatic Brain Injury will improve readers understanding of the complexities of diagnosis and management of traumatic brain injuries Featuring chapters on drug delivery different treatments and rehabilitation this volume discusses in detail the impact early diagnosis and effective management has on the long term prognosis of these injuries and the lives of those affected This book will be relevant for neuroscientists neurologists clinicians and anyone working to better understand these injuries Traumatic brain injury has complex etiology and may arise as a consequence of physical abuse violence war vehicle collisions working in the construction industry and sports Cellular Molecular Physiological and Behavioral Aspects of Traumatic Brain Injury will improve readers understanding of the detailed processes arising from traumatic brain injury Featuring chapters on neuroinflammation metabolism and psychology this volume discusses the impact of these injuries on neurological and body systems to better understand underlying pathways This book will be relevant for neuroscientists neurologists clinicians and anyone working to better understand traumatic brain injury Diagnosis and Treatment of Traumatic Brain Injury Covers both the diagnosis and treatment of traumatic brain cord injury Contains chapter abstracts key facts dictionary and summary points to aid in understanding Features chapters on epidemiology and pain Includes MRI usage biomarkers and stem cell and gene therapy for management of spinal cord injury Discusses pain reduction drug delivery and rehabilitation Cellular Molecular Physiological and Behavioral Aspects of Traumatic Brain Injury Summarizes the neuroscience of traumatic brain injury including cellular and molecular biology Contains chapter abstracts key facts dictionary and summary points to aid in understanding Features chapters on signaling and hormonal events Includes plasticity and gene expression Examines health and stress behaviors after traumatic brain injury **Encyclopedia of Neuroscience, Volume 1** Larry R. Squire, 2009-06-12 The Encyclopedia of the Neuroscience explores all areas of the discipline in its focused entries on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written by an expert in that specific domain and peer reviewed by the advisory board before acceptance into the encyclopedia Each article contains a glossary introduction a reference section and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields Oxford Textbook of Neurocritical Care Martin M. Smith, Giuseppe G. Citerio, W. Andrew I. Kofke, 2016-03-24 The critical care management of patients with life threatening neurological conditions requires the ability to treat neurological injuries manage medical

complications and perform invasive procedures whilst balancing the management of the brain and the body The Oxford Textbook of Neurocritical Care provides an authoritative and up to date summary of the scientific basis clinical techniques and management guidelines in this exciting clinical discipline This highly authoritative textbook is conceptually divided into three sections Section 1 provides an accessible guide to the general principles of neurophysiology and neuropharmacology cardiorespiratory support management of fluids and intracranial hypertension Section 2 outlines the use of multiple monitoring modes which are crucial to diagnosis and management Section 3 covers the management of the major pathologies encountered during neurointensive care with an emphasis on evidence based practice or consensus guidelines to provide a cohesive and definitive clinical resource Authored by an international team of expert practitioners this textbook reflects world wide practice and guidelines This volume is published with a concurrent online version which features access to the full content of the textbook contains links from the references to primary research journal articles allows full text searches and provides access to figures and tables that can be downloaded to PowerPoint Designed for consultants and trainees in neurocritical care The Oxford Textbook of Neurocritical Care is also accessible to the general critical care physician and trainees who need a definite and authoritative resource to meet the unique needs of neurocritically ill patients Intensive Care Manual Andrew D. Bersten, Neil Soni, 2009-01-01 The sixth edition provides practical concise information on all aspects of intensive care Written in a clear and accessible style and now for the first time presented in colour throughout this book enables the user to manage a patient in an ICU setting effectively without recourse to large text reference works or specialized monographs This thoroughly revised and updated edition reflects the best and most current practice from leading centres in Australia the UK and Western Europe Information on management and treatment of conditions is balanced by pathophysiological and pharmacological background This is not just a cook book of procedures It provides all of the essential information for candidates wishing to pass professional examinations Addition of colour throughout to highlight summary boxes tables charts and flow diagrams Will make key information more accessible easier and faster to retrieve Pitfalls in treatment and management emphasized in each chapter Providers the user with expert advice on practical issues that will be encountered on a day to day basis in the ICU Keeps the user abreast of the latest developments in diagnosis and management Neurocritical Care Michel T. Torbey, 2019-07-18 A comprehensive practical guide providing critical solutions in the management of critically ill neurologic and neurosurgical patients **Between Theory and Clinic: The** Contribution of Neuroimaging in the Field of Consciousness Disorders Olivia Gosseries, Steven Laureys, Caroline Schnakers, 2019-05-16 The amount of patients surviving severe brain injury has gradually increased over these last decades thanks to the development of intensive care These patients either recover quickly from coma or go through prolonged disorders of consciousness such as vegetative state unresponsive wakefulness syndrome VS UWS or minimally conscious state MCS While patients in a minimally conscious state are to some extent aware of themselves and the environment and

show fluctuating but reproducible signs of consciousness patients in a vegetative state unresponsive wakefulness syndrome are awake but only show reflexive behaviors These patients are unable to communicate and present vigilance fluctuation sensory deficits as well as severe motor and language impairments Even though behavioral assessment currently remains the gold standard for diagnosis a number of studies highlights the difficulty in making the distinction between conscious and unconscious patients based on clinical examinations and show a misdiagnosis rate as high as 40% Misdiagnosis can nevertheless have serious consequences on patient s management medically but also ethically i e regarding end of life decision The emergence of functional neuroimaging techniques such as positron emission tomography PET and functional magnetic resonance imaging fMRI opened new opportunities to study brain activity in patients with disorders of consciousness DOC Recent neuroimaging tools have brought new understandings on how the brain functions after coma and how these tools can complement bedside assessment by improving diagnosis and prognosis of DOC patients Indeed we know now that most patients in VS UWS present partial activation of sensory networks and impaired functional connectivity contrary to patients in MCS The reemergence of thalamo cortical connections has also been associated with recovery of consciousness whereas thalamic atrophy has been associated to chronic DOC Recent findings have also stressed the interest of neuroimaging in the management and the treatment of these patients fMRI has been used as brain computer interfaces to detect consciousness in unresponsive patients and to allow basic communication in minimally conscious patients Neuroimaging techniques are also currently being used to examine the effects of potential therapy such as pharmacological medications e g Amantadine or Zolpidem and brain stimulations e g transcranial direct current stimulation or repetitive transcranial magnetic stimulation

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through Coma And Disorders Of Consciousness

In a world inundated with displays and the cacophony of instantaneous conversation, the profound energy and mental resonance of verbal beauty often disappear in to obscurity, eclipsed by the constant barrage of noise and distractions. Yet, nestled within the musical pages of **Coma And Disorders Of Consciousness**, a charming work of literary elegance that impulses with raw emotions, lies an remarkable trip waiting to be embarked upon. Published by a virtuoso wordsmith, this mesmerizing opus guides visitors on a psychological odyssey, delicately exposing the latent possible and profound impact stuck within the elaborate internet of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is main styles, dissect its interesting publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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