

## The Comatose Patient

They called it “minor surgery,” but Nancy Greenly, Sean Berman, and a dozen others—all admitted to Boston Memorial Hospital for routine procedures were victims of the same inexplicable, hideous tragedy on the operating table. They never woke up. . . .

**Delirium, stupor and coma** are common clinical states that confront clinicians in almost every medical specialty. With appropriate diagnosis and treatment, coma can often be treated successfully. Conversely, delay in diagnosis and treatment may be lethal. This monograph provides an update on the clinical approach that was laid out in the previous 3 editions. It describes an approach for the physician at the bedside to diagnose and treat alterations of consciousness, based on pathophysiologic principles. The book begins with a description of the physiology of consciousness and the pathophology of disorders of consciousness. It continues with a description of the approach to a patient with a disorder of consciousness, emphasizing the bedside examination, but including the use of modern imaging techniques. The important structural and metabolic causes of coma are reviewed in detail. It then describes the emergency treatment, both medical and surgical, of patients with specific disorders of consciousness and their prognosis. New chapters describe the approach to the diagnosis of brain death and the vegetative state and minimally conscious state, as well as the ethics of dealing with such patients and their families. The book is aimed at medical students and residents, in fields from internal medicine and pediatrics to emergency medicine, surgery, neurology, neurosurgery, and psychiatry, who are likely to encounter patients with disordered states of consciousness. It includes historical background and basic neurophysiology that is important for those in the clinical neurosciences, but also lays out a practical approach to the comatose patient that is an important part of the repertoire of all clinicians who provide emergency care for patients with disorders of consciousness. -BOOK JACKET.

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The MOET Course Manual

Plum and Posner's Diagnosis and Treatment of Stupor and Coma

Reaching out to People in Comatose States

The Neurological Examination of the Comatose Patient

A New View of Awareness, Healing, and Hope

The book provides detailed information on all major neuroemergencies, and includes a detailed checklist for practical care during the first hour of an emergency. Reinforcing the concept of quality care for better outcomes in patients with neurological diseases, the book discusses approaches to comatose patients, neurological evaluation, neuropharmacology, neuroradiology, traumatic brain and spine injury, and various other neurological disorders. The field of neuroanesthesiology and neurocritical care has expanded with the advent of newer, complex surgeries, and neurocritical care is becoming an established subspecialty of neuroscience. Neurological emergencies require special care since prevention of secondary damage to the brain is of paramount importance. A valuable resource for intensivists, neurointensivists, emergency medicine physicians, neurology and neurosurgeons and nursing professionals involved in neurocare, this book also serves as study material for participants of the two-day course on "Acute Neuro Care" designed by the Indian Society of Neuroanesthesiology and Critical Care (ISNACC).

Over 40% of the patients diagnosed as being in a 'persistent vegetative state' are misdiagnosed. Around the world, in a case after case, victims in long-term coma awaken to the amazement and incomprehension of the medical establishment. AWAKENINGS describes many of the remarkable awakenings experienced by former coma patients, and reveals some of the most innovative alternative techniques that have proven to be effective—live which awakening, also used to calm the patient and allow the ventilator to work properly—to come due to intoxication and coma related to a brain injury. No matter the reason, it can be a distressing time for loved ones. Guide to a Comatose Patient is a helpful guide for any family member or loved one confronted with coma. Author Esico F. M. Wijdticks, M.D., Ph.D., a leading neurologist and attending neurointensivist at Mayo Clinic, begins each chapter by sharing helpful anecdotes from a career spanning four decades, before diving into the answers to commonly asked questions, such as: What are the causes of coma? When will the patient wake up and recover? When is no recovery expected? What are the rates of survival? While there are many books on families' experiences with acute traumatic brain injury and coma, Dr. Wijdticks offers an unusually candid conversation that allows a peek inside the minds of the doctors caring for your loved one. Having had many experiences talking to families having to make difficult decisions at a very difficult time, Dr. Wijdticks's message is hopeful while remaining grounded in reality—a reality in which facts must dictate actions. Guide to a Comatose Patient provides important information so that families better understand treatment options, but most importantly, the book offers an open dialogue and optimal transparency to help provide hope and healing through times of grief.

This practical, comprehensive and highly illustrated book will be invaluable to students and doctors of neurology and internal medicine in Africa.

Focused Approach to Neuroemergencies

The Influence of Family Involvement on Changes in the Comatose Patient

Plum and Posner's Diagnosis of Stupor and Coma

Core Topics in Neuroanaesthesia and Neurointensive Care

Awakenings

*Practically focused and evidence based, Rapid Response Situations: Management in Adult and Geriatric Hospitalist Medicine compiles the essential information needed by rapid response teams (RRT) for early intervention at the bedside of an acutely ill patient. This portable resource is ideal for hospitalists and other members of the RRT, offering step-by-step coverage of the assessment and stabilization information most needed at the time of emergency. Addresses the most common rapid response situations in a brief, highly templated, and bulleted format designed for quick reference at the point of care. Step-by-step coverage includes: Which stabilization measures to implement Which tests to order and why Which medications to administer, including dosage Which specialists to consult for further interventions A must-have reference for hospitalists, intensivists, ICU nurses, and other rapid response team members, including those working in rural settings with few intensivists or specialists available for consults.*

*Coma: A Healing Journey, is a heartfelt and practical guide to non-intrusive communication with coma patients. Extending her husband, Arnold Mindell's pioneering work with people in comatose and near death conditions, Amy Mindell provides step-by-step exercises to help family members and caregivers communicate with, and care for, patients thought to be lost in coma. The book helps to bridge the divide between the coma patient and concerned family, friends, and healthcare professionals while furthering the comatose person's meaningful communications and inner journey. The deep relationship that comes from caring for, and communicating with, the person in coma, makes healing a part of the caregiver's, as well as the patient's, journey.*

*Offering a new view and a fascinating understanding of coma states, this hope-filled work explains technology-driven insights and describes practices with which family members and caregivers can help promote recovery.*
• Heartwarming stories that engender genuine hope for professionals and families dealing with this most difficult area of treatment
• More than 20 relevant exercises that help the reader to understand the coma state and how to be most useful to the person in this state
• An appendix that expands on scientific and philosophical concepts introduced in the book and includes reference links
• A glossary of basic terms of process-oriented coma work and related medical terms
• A bibliography

The neurological examinationa of the comatose patient

A Case-Based Approach

Inside Coma: A New View of Awareness, Healing, and Hope

Clinical Neurological Examination and Localization

The Comatose Patient

*This research is an extensive survey and the first explorative empirical study of awareness in comatose states and the possibility of contact and communication with comatose patients in a neurological intensive care unit setting using Process-oriented Coma Work methods developed by Arnold Mindell. Practical and ethical consequences will be discussed. "In 'Reaching out to People in Comatose States' Peter Ammann creates a balanced and many sided approach to working with people in reduced states of consciousness. He demonstrates empirical results of Process-oriented Coma Work with comatose people in the ICU, making this work important both for medical and psychological communities." Amy and Arnold Mindell, authors of "Coma, a Healing Journey", and "Coma, Key to Awakening"*

*Caring for a loved one in a coma is a distressing time, full of many questions, and often, not as many answers. Guide to a Comatose Patient is a first-of-its-kind book that steps into the shoes of the neurologist, to show the perspective of the staff caring for their loved ones — what worries us, how we think and intervene, what we can and cannot predict, and what we know as a certainty. In our hospital ICUs, there are more than a dozen comatose patients at any given point of time. Causes of coma can range from drug-induced coma to a stroke in which awakening, also used to calm the patient and allow the ventilator to work properly—to come due to intoxication and coma related to a brain injury. No matter the reason, it can be a distressing time for loved ones. Guide to a Comatose Patient is a helpful guide for any family member or loved one confronted with coma. Author Esico F. M. Wijdticks, M.D., Ph.D., a leading neurologist and attending neurointensivist at Mayo Clinic, begins each chapter by sharing helpful anecdotes from a career spanning four decades, before diving into the answers to commonly asked questions, such as: What are the causes of coma? When will the patient wake up and recover? When is no recovery expected? What are the rates of survival? While there are many books on families' experiences with acute traumatic brain injury and coma, Dr. Wijdticks offers an unusually candid conversation that allows a peek inside the minds of the doctors caring for your loved one. Having had many experiences talking to families having to make difficult decisions at a very difficult time, Dr. Wijdticks's message is hopeful while remaining grounded in reality—a reality in which facts must dictate actions. Guide to a Comatose Patient provides important information so that families better understand treatment options, but most importantly, the book offers an open dialogue and optimal transparency to help provide hope and healing through times of grief.*

*Core Topics in Neuroanesthesia and Neurointensive Care is an authoritative and practical clinical text that offers clear diagnostic and management guidance for a wide range of neuroanesthesia and neurocritical care problems. With coverage of every aspect of the discipline by outstanding world experts, this should be the first book to which practitioners turn for easily accessible and definitive advice. Initial sections cover relevant anatomy, physiology and pharmacology, intraoperative and critical care monitoring and neuroimaging. These are followed by detailed sections covering all aspects of neuroanesthesia and neurointensive care in both adult and pediatric patients. The final chapter discusses ethical and legal issues. Each chapter delivers a state-of-the art review of clinical practice, including outcome data when available. Enhanced throughout with numerous clinical photographs and line drawings, this practical and accessible text is key reading for trainee and consultant anesthetists and critical care specialists.*

Expert advice for families and caregivers

Neurological Emergencies

Neurology in Clinical Practice

Hill-Burton Is--

How to Awaken Someone from a Coma

Bedside Neurological examination is an important tool in diagnosing neurological disorders . Despite significant advances in the investigations available for diagnosing neurological disorders bedside neurological examination remains the cornerstone in diagnosing neurological disorders and should not only be conducted prior to the investigations but should be actually be utilized to plan the appropriate investigations .The book provides a focused account of various aspects of the neurological examination leading to clinical localisation and hence obtaining the neurological diagnosis. It includes topics like 'how to obtain a appropriate neurological history', 'higher mental system examination', examination of speech and various cranial nerves and examination of other systems including motor system, sensory system, reflexes , cerebellar and autonomic nervous system.The book also includes certain interesting topics like 'neurological examination of the unconscious patient 'and 'tricks and tips of neurological localisation. The book is easy to read and memorize due to multiple self explanatory illustrations and important aspects being highlighted in bulleted format. The book will be of extreme help for MD and DNB students of Internal Medicine as well as DM and DNB students of Neurology and DNB and MCh Neurosurgery students , hence covering a fairly large readership base . It will also be read by practising Internal medicine physicians , neurologists and neurosurgeons who may want to revise the basics and tricks of neurological examination and localization

The cerebral vasculature originates at the aortic arch. The right brachiocephalic artery divides into the right common carotid artery and the right subclavian artery. The left common carotid and left subclavian arteries arise directly from the aortic arch. The 2 common carotid arteries bifurcate into the internal and external carotid arteries. The anterior circulation of the brain includes the distal branches from the internal carotid artery, including the anterior cerebral artery and the middle cerebral artery. The vertebral arteries arise from the subclavians and join at the pontomedullary junction, forming the basilar artery. The vertebrobasilar system and distal branches are commonly known as the posterior circulation of the brain--

New edition, completely rewritten, with new chapters on endovascular surgery and mitochondrial and ion channel disorders.

Management of Head Injuries

Nursing Care of the Unconscious Patient

A Healing Journey: A Guide for Family, Friends, and Helpers

Comatose Patient [video]

Guide to the Comatose Patient

This comprehensive and up-to-date book covers the common emergencies in neurology, neurosurgery, and psychiatry. Chapters examine a variety of neurological emergencies, and offer pragmatic approaches to treatment and management. High-quality tables, figures, and algorithms supplement expertly written text, and provide readers with clear, rapid answers in an easily accessible format. Additionally, the book includes discussions on less common conditions, and incorporates specific methods for treating specific populations, such as pregnant women and transplant patients. Neurological Emergencies: A Practical Approach is a go-to reference for all medical professions working in emergency treatment settings, and will increase their ability to better care for patients with acute neurological diseases.

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
This revised and expanded second edition discusses the assessment and treatment of patients recovering from coma and disorders of consciousness. Besides diagnostic, prognostic and ethical issues, this book describes well-established techniques and procedures, and also techniques under development. New chapters include consciousness theories, issues relating to long-term care, and neuromodulation treatments. Coma and Disorders of Consciousness, Second Edition is a comprehensive review of the field for clinicians and researchers, regardless of whether they are already familiar with the difficult but exciting field of disorders of consciousness.

Medical Facts, Ethical and Legal Dilemmas

Contact and Communication

The Vegetative State

The Diagnosis of Stupor and Coma

Acute Neuro Care

"There is an apocryphal story of an eminent neurology professor who was asked to provide a differential diagnosis. He allegedly quipped: "I can't give you a differential diagnosis. If you wish I will give you a list of wrong diagnoses followed by the right diagnosis." Sadly, this sort of arrogance pervaded our field, particularly in the era before there were accurate diagnostic methods and effective treatments of neurological diseases. Fortunately, this sort of pomposity is now relegated to the past and remains only as an antique reminder of a type of hubris that precluded discovery and progress in diseases of the nervous system"

Fully updated and revised, the second edition of *The Practice of Emergency and Critical Care Neurology* puts a more modern approach on the practice of emergency neurological care. When most texts within the field focus on the theoretical aspects, this book concentrates on the management of neurologic conditions, recognition of deterioration of neurologic functions, neurosurgical procedures, and immediate interventions. This text also presents hard data to explain why we do what we do. Dr. Wijdticks condenses essential information into several sections comprising of the principles in recognizing critically ill neurologic patients in the emergency department, the evaluation of symptoms indicating critical emergency, general principles of managing critically ill patients, monitoring devices and diagnostic tests, complete management of specific disorders in the neurosciences intensive care unit, postoperative neurosurgical and neurointerventional complications, management of medical complications, and end of life care. Key Features of the New Edition include 1. Additional chapters on critical consults in surgical and medical ICUs, critical care management, and comprehensive monitoring and biomarkers to reflect new research; 2. Rich illustrations using color photos of patients and drawings of important basic concepts of mechanism of acute neurologic disease; 3. Fully updated and comprehensive reference list; 4. A pocket book of selected tables and figures covering all essential points for quick reference and as a survival guide for house staff. This is the go-to guide for every physician, staff neurologist, neurointensivist, resident, and fellow in training with managing acutely ill neurologic patients.

Obstetric emergencies are unplanned and often unanticipated. Management requires a clear understanding of the life-saving and damage-limiting treatments that can be implemented.

Management in Adult and Geriatric Hospitalist Medicine

Current Topics in Intensive Care Medicine

Oxford Textbook of Critical Care

Coma Science

Coma and Disorders of Consciousness

*Now in paperback, the second edition of the Oxford Textbook of Critical Care addresses all aspects of adult intensive care management. Taking a unique problem-orientated approach, this is a key resource for clinical issues in the intensive care unit.*

*From the creator of the popular website Ask a Manager and New York's work-advice columnist comes a witty, practical guide to 200 difficult professional conversations—featuring all-new advice! There's a reason Alison Green has been called “the Dear Abby of the work world.” Ten years as a workplace-advice columnist have taught her that people avoid awkward conversations in the office because they simply don't know what to say. Thankfully, Green does—and in this incredibly helpful book, she tackles the tough discussions you may need to have during your career. You'll learn what to say when • coworkers push their work on you—then take credit for it •you accidentally trash-talk someone in an email then hit “reply all” •you're being micromanaged—or not being managed at all •you catch a colleague in a lie •your boss seems unhappy with your work •your cubemate's loud speakerphone is making you homicidal •you got drunk at the holiday party Praise for Ask a Manager “A must-read for anyone who works. . . . [Alison Green's] advice boils down to the idea that you should be professional (even when others are not) and that communicating in a straightforward manner with candor and kindness will get you far, no matter where you work.”—Booklist (starred review) “The author's friendly, warm, no-nonsense writing is a pleasure to read, and her advice can be widely applied to relationships in all areas of readers' lives. Ideal for anyone new to the job market or new to management, or anyone hoping to improve their work experience.”—Library Journal (starred review) “I am a huge fan of Alison Green's Ask a Manager column. This book is even better. It teaches us how to deal with many of the most vexing big and little problems in our workplaces—and to do so with grace, confidence, and a sense of humor.”—Robert Sutton, Stanford professor and author of The No Asshole Rule and The Asshole Survival Guide “Ask a Manager is the ultimate playbook for navigating the traditional workforce in a diplomatic but firm way.”—Erin Lawler, author of Broke Millennial: Stop Scraping By and Get Your Financial Life Together*

*Knowledge of intensive care medicine is growing logarithmically. In addition, intensive care units and their number of beds are increasing in hospitals. Nowadays, the average human life is prolonged due to the growth of medical knowledge and skills. Intensive care units, both as a cause and as a consequence of long-life expectancy, are increasingly important. This book contains current topics on intensive care such as critical care for neonatal, neurological, and cardiological patients; fluid management in these patients; and intensive care infections. We wish the readers find this book to be helpful.*

Neurology in Africa

Rapid Response Situations E-Book

Neurohospitalist Medicine

Current Emergency Diagnosis & Treatment

Managing Obstetric Emergencies and Trauma

The Comatose Patient, Second Edition, is a critical historical overview of the concepts of consciousness and unconsciousness, covering all aspects of coma within 100 detailed case vignettes. This comprehensive text includes principles of neurologic examination of comatose patients as well as instruction of the FOUR Score coma scale, and also discusses landmark legal cases and ethical problems. As the Chair of Division of Critical Care Neurology at Mayo Clinic, Dr. Wijdticks uses his extensive knowledge to discuss a new practical multistep approach to the diagnosis of the comatose patient. Additionally, this edition includes extensive coverage of the interpretation of neuroimaging and its role in daily practice and decision making, as well as management in the emergency room and ICU. Dr. Wijdticks details long-term supportive care and an appropriate approach to communication with family members about end-of-life decision making. In addition, video clips on neurologic examination and neurologic manifestations seen in comatose patients can be found here: http://oxfordmedicine.com/comatosepatient2e. All video recordings from the first edition have been reformatted and remastered for optimal use, and several more video clips of patients have also been included.

A survey of the medical, ethical and legal issues that surround this controversial topic.

Over the past decade, the hospitalist model has become a dominant system for the delivery of inpatient care. Forces such as national mandates to improve safety and quality, and intense pressure to safely reduce length of hospital stays, are now exerting pressure on neurologists. To meet these challenges, a new neurohospitalist model is emerging. This is the first authoritative text to detail the advances and strategies for treating neurologic disease in a hospital setting. It includes chapters on specific acute neurologic diseases including stroke, epilepsy, neuromuscular disease and traumatic brain injury and also addresses common reasons for neurologic consultation in the hospital including encephalopathy, electrolyte disturbances and neurologic complications of pregnancy. Ethical and structural issues commonly encountered in neurologic inpatients are also addressed. This will be a key resource for any clinician or trainee caring for neurologic patients in the hospital including practising neurologists, internists and trainees across multiple subspecialities.

The Practice of Emergency and Critical Care Neurology

Ask a Manager

Management of the Unconscious Patient

A Practical Approach

Neurologic Differential Diagnosis

*Clifford B. Saper, Chair of Neurology at Harvard Medical School, and Nicholas D. Schiff of Weill Medical College in NY join the original authors to thoroughly update this seminal text with over 90% new material. the goal of the new edition is to provide a clinically slanted volume that will help the reader understand and diagnose severe brain dysfunction both as it exists and as it evolves in the seriously ill. the book remains a treatise on pathophysiology because recent imaging, electrophysiologic, and biochemical technologies (discussed in the book) are by themselves insufficient substitute*

*Plum and Posner's Diagnosis and Treatment of Stupor and Coma, 5th edition, is a major update of the classic work on diagnosing the cause of coma, with the addition of completely new sections on treatment of comatose patients, by Dr. Jan Claassen, the Director of the Neuro-ICU at Columbia New York Presbyterian Hospital. The first chapter of the book provides an up-to-date review on the brain mechanisms that maintain a conscious state in humans, and how lesions that damage these mechanisms cause loss of consciousness or coma. The second chapter reviews the neurological examination of the comatose patient, which provides the basis for determining whether the patient is suffering from a structural brain injury causing the coma, or from a metabolic disorder of consciousness. The third and fourth chapters review the pathophysiology of structural lesions causing coma, and the specific disease states that result in coma. Chapter five is a comprehensive treatment of the many causes of metabolic coma. Chapter 6 review psychiatric causes of unresponsiveness and how to identify and treat them. Chapters 7 and 8 review the overall emergency treatment of comatose patients, followed by the treatment of specific causes of coma. Chapter 9 examines the long term outcomes of coma, including the minimally conscious state and the persistent vegetative state, and how they can be distinguished, and their implications for eventual useful recovery. Chapter 10 reviews the topic of brain death and the standards for examination of a patient that are required to make the determination of brain death. The final chapter II is by J.J. Pins, a medical ethicist who was invited by the other authors to write an essay on the ethics of diagnosis and treatment of patients who, by definition, have no way to approve of or communicate about their wishes. While providing detailed background for neurological and neurosurgical specialists, the practical nature of the material in this book has found its greatest use among Internists, Emergency Medicine, and Intensive Care specialists, who deal with comatose patients frequently, but who may not have had extensive neurological training.*

Mayo Clinic Neurology Board Review

Coma

How to Navigate Clueless Colleagues, Lunch-Stealing Bosses, and the Rest of Your Life at Work