

An Atlas Of Epilepsy

As the population ages, technology improves, intensive care medicine expands and neurocritical care advances, the use of EEG monitoring in the critically ill is becoming increasingly important. This atlas is a comprehensive yet accessible introduction to the uses of EEG monitoring in the critical care setting. It includes basic EEG patterns seen in encephalopathy, both specific and non-specific, nonconvulsive seizures, periodic EEG patterns, and controversial patterns on the ictal–interictal continuum. Confusing artefacts, including ones that mimic seizures, are shown and explained, and the new standardized nomenclature for these patterns is included. The Atlas of EEG in Critical Care explains the principles of technique and interpretation of recordings and discusses the techniques of data management, and 'trending' central to long-term monitoring. It demonstrates applications in multi-modal monitoring, correlating with new techniques such as microdialysis, and features superb illustrations of commonly observed neurologic events, including seizures, hemorrhagic stroke and ischaemia. This atlas is written for practitioners, fellows and residents in critical care medicine, neurology, epilepsy and clinical neurophysiology, and is essential reading for anyone getting involved in EEG monitoring in the intensive care unit.

The electroencephalogram (EEG) is essential to the accurate diagnosis of many neurologic disorders. The Second Edition of Atlas of EEG Patterns sharpens readers' interpretation skills with an even larger array of both normal and abnormal EEG pattern figures and text designed to optimize recognition of telltale findings. Trainees will benefit from hundreds of EEG figures, helping them spot abnormalities and identify the pattern name. Experienced neurologists will find the book excellent as a quick reference and when trying to distinguish a finding from similarly appearing patterns. Organized by EEG pattern, the Atlas orients you to the basics of EEG, helps the reader identify the characteristic EEG wave features and leads you to the EEG diagnosis through a table that organizes all of the EEG patterns according to their wave features. The Atlas includes the full range of EEG patterns from the common rhythms to the rare findings, and it also includes numerous examples of artifacts.

An electroencephalogram (EEG) records and measures electrical activity in the brain and is used to help diagnose seizure disorders, screen for delirium and dementia, evaluate head injuries, and examine brain activity in comatose individuals. While the introduction of digital EEGs carries the promise of better accuracy, it requires that physicians and technologists be specially trained. This sophisticated and practical collection of teaching tools uses digital EEGs—to be read as they would be in practice—to provide a comprehensive introduction to all EEGs and to ease the transition from the paper to the digital format for neurologists and technologists. It incorporates multimedia presentation and interactive digital EEG and video to help physicians and technicians recognize common normal and abnormal EEG patterns represented in a digital format. The atlas presents EEG patterns in a logical sequence, beginning with normal adult and pediatric patterns, working through variants and abnormalities, and concluding with abnormal neonatal patterns. This book is accompanied by an EEG reading system on DVD that allows the reader to review "live" EEG, facilitating training on formatting EEG for review and rapidly cross-linking between similar and related EEG patterns. In addition, the atlas contains a primer on reading EEG, a software tutorial on how to read digital EEG, an EEG self-test, a collection of MRI images showing positions of standard EEG electrodes over the brain, and video examples of common types of seizures. The need for neuropathology reviews in epilepsy surgery tissues steadily increases. However, textbooks and case presentations highlighting and focusing on this specific topic are rare. The authors of this book reviewed their professional experience in surgical and post-mortem neuropathology studies to compile a coherent summary of: clinico-pathological findings, current classification schemes, useful protocols research data for major histopathological entities of brain lesions encountered in modern epilepsy surgery programs, which is hippocampal sclerosis, brain tumours associated with early epilepsy onset, malformations of cortical development, brain inflammation and malformative vascular lesions. They did not intend to be exhaustive but rather representative of the main lesions and pathologies encountered. Thirty-two illustrated cases constitute the core of this book and will be very helpful in current practice. This edition combines Dr. Blume's two classic books--"Atlas of Adult EEG" and "Atlas of Pediatric EEG"--into a single resource for adult and pediatric epileptologists, neurologists, and neurology trainees.

This is a special collection of full color slides with clinical text insert covering infantile, juvenile, and adult seizures and epilepsies, incidence and prevalence and mortality rates, risk factors, etiologies, remission tables, actuarial tables of antiepileptic drugs, many other EEG and data slides, and an extensive amount of hard-to-find technical information. The slides are conveniently pocket-slipcased in heavy-duty plastic sleeves mounted in a durable hardcover binder with separate accompanying text containing slide captions and clinical insights.

Atlas of Epilepsies is a landmark, all-encompassing, illustrated reference work and hands-on guide to the diagnosis, management and treatment of epilepsy in all its forms and across all age groups. The premier text in the field with over one thousand images, the Atlas's highly illustrative approach tackles the difficult subject of epileptic seizures and epileptic syndromes, accompanied by sequential photographs of each management step. Intraoperative photographs are accompanied by detailed figure legends describing nuances, subtleties, and the thought processes involved in each step, providing a fuller understanding of each procedure. The Atlas draws on the expertise of over 300 internationally-renowned experts, and is liberally interspersed with clinical insights and personal vignettes that offer helpful tips, technical advice and critical knowledge to the clinician and scholar. The thorough and complete table of contents includes dedicated sections or chapters on important topics such as neonatal and pediatric seizures; imitators of epilepsy; EEG and neuroimaging; psychiatric and quality of life aspects of epilepsy; and a complete guide to treatment options including current and up-to-date chapters on pharmaceuticals, surgical procedures, and additional and alternative treatments. No other publication addresses epilepsies as thoroughly and completely as the Atlas of Epilepsies. Exhaustive and illustrative, convenient and current, this reference is sure to be the premier text on epilepsy for many years to come.

Epilepsy is one of the most common serious disorders of the brain, affecting about 50 million people worldwide. Epilepsy accounts for 1 per cent of the global burden of disease; 80 per cent of the burden of epilepsy is in the developing world, where in some areas 80-90 per cent of people with epilepsy receive no treatment at all. The Epilepsy Atlas provides an illustrative presentation of data and information on the current status of epilepsy services and care available from 160 countries, areas or territories covering 97.5 per cent of the world population. The information is primarily gathered from key persons in the area of epilepsy care in each country identified by International Bureau for Epilepsy and the International League against Epilepsy, and, in some cases, by WHO regional offices.

This resource is an illustrated guide to the performance and interpretation of EEG and management of epilepsy. This second edition has been thoroughly revised and updated, and features hundreds of detailed EEGs covering the science in extensive scope and detail, beginning with basic electronics and physiology, followed by EEG interpretation, epilepsy diagnosis, and ultimately epilepsy management. It also includes all basic classifications and definitions of seizures and epilepsy.

The single-best resource available for learning how to perform and interpret video EEG Companion DVD shows real-time Video EEG in practice! The Atlas of Video-EEG Monitoring explains the essentials of video EEG for use in all settings. This full-color atlas thoroughly covers the basics of performing video EEG for diagnosis along with how to use video EEG for the diagnosis and interpretation of first and/or repeated seizures, during treatment of epilepsy, in the emergency department and intensive care unit, and during surgery. Features Over 340 full-color images and EEGs Detailed overview of epileptic seizures, from simple partial seizures and primary generalized tonic-clonic seizures to epileptic spasms In-depth survey of seizure mimics, including psychogenic non-epileptic spells; panic spells; dissociative spells; movement disorders; sleep disorders; and syncope Thorough review of status epilepticus, including epilepsia partialis continua, non-epileptic movements in coma, and other syndromes Cutting-edge guidance on intracranial video-EEG monitoring, including placement and interpretation of grid and strip electrodes, and depth electrodes DVD contains videos linked to EEG patterns in the book—allowing you to see each problem in real time

According to the World Health Organization, epilepsy accounts for 1% of the global burden of disease, equivalent to breast cancer in women and lung cancer in men. Among primary disorders of the brain, it is equivalent to depression, dementia, and substance abuse. Singly authored by Jerome Engel, Jr, this must-read from 1989 reasserts itself as a modern classic comprehensive textbook covering a broad range of both basic and clinical epileptology.

This atlas has been written as an introduction to assessment and diagnosis for clinicians with limited experience of epilepsy: specialists in internal medicine, trainees in neurology and primary care physicians, who are tasked with the care of epileptic patients. This book deals with the pathophysiology of epilepsy and highlights the most important clinical aspects and complications of the disease, equipping readers with the knowledge and the skills to be able to deal with epileptic patients in a safe manner and give them the best chance to become seizure free. Benefits: Comprehensive visual guide, illustrating each type of epilepsy with real clinical cases Algorithms and tables summarise pharmacologic therapies and illustrate treatment options Appendices provide straightforward instruction on reading and interpreting the EEG 750 EEG tracings provide the visual assistance you need to diagnose pediatric seizure activity Atlas of Pediatric EEG will prove to be an essential visual reference to for both the novice and experienced neurologist. For those new to the field, it will help develop the pattern recognition skills necessary to diagnose pediatric seizure activity. For experienced neurologists, it provides a working collection of known patterns to which they can compare their own tracings. Atlas of Pediatric EEG features a full-color presentation, easy-to-read bulleted chapter text, and detailed legends under each tracing that provide a full description and diagnosis of what is seen in the tracing. Chapters also contain case examples that add clinical relevance to the tracings. This unique atlas covers every type of seizure, both epileptic and non-epileptic and divided into nine chapters: Normal and Benign Variants Artifacts Newborn Focal Nonepileptiform Activity Generalized Nonepileptiform Activity ICU Epileptic Encephalopathy Generalized Epilepsy Focal Epilepsy Also included is a companion DVD containing 190 video clips to assist you in learning how to interpret video-EEG, which is rapidly becoming the most common modality for EEG.

Atlas of Epilepsies Springer Science & Business Media

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Atlas of Ambulatory EEG covers the areas of clinical neurophysiology, an atlas that comprehensively depicts normal, abnormal, and artifactual findings from actual ambulatory EEG recordings in a convenient and easily accessible format. As the use of ambulatory EEG has increased in recent years, the need for a concise atlas of ambulatory EEG has grown significantly, since ambulatory EEG tracings are subject to their own unique issues and artifacts, often not discussed in standard EEG atlases. This book begins with several chapters that introduce the history, technology, and clinical utility of ambulatory EEG. The bulk of the atlas consists of a page-by-page display of high-quality ambulatory EEG excerpts that are easy to review and come with short annotations describing the relevant findings. Atlas of Ambulatory EEG is a critical resource for anyone involved in the interpretation of ambulatory EEG studies. A handy reference describing EEG patterns in normal and abnormal subjects based upon continuous monitoring techniques from widely used ambulatory EEG equipment. A section of EEG patterns without accompanying explanation will test the reader's ability to interpret the waveforms and answers will be given in a separate section. Internationally renowned contributors in the field. Wide audience including researchers in neurophysiology and neuroscience, as well as neurologists.

Fully updated and revised, the 3rd edition of the Atlas of Electroencephalography volume 1: Awake and Sleep EEG, activation procedures and artifacts retains the format and presentation that made the previous editions successful. It is the most comprehensive EEG atlas on activation procedures, artifacts and normal EEG, covering the full spectrum of normal and unusual patterns observed during wakefulness and sleep, in children and adults. It will significantly help the visual analysis of EEG by neurologists and other specialists as well as technologists. Electroencephalograms are shown in their native format, exactly as they appear in daily practice. Each plate is analyzed, in order to highlight the most significant elements to be used in diagnosis and interpretation. This 3rd edition includes a total of 180 EEG plates. Covering basic classifications and definitions of seizures and epilepsy, EEG technology and clinical EEG, this DVD disk

