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The Epilepsies: Seizures, Syndromes and Management is the latest work from one of the world's leading experts and offers an exhaustive account of the classification and management of epileptic disorders. In thirteen chapters, Dr Panayiotopoulos gives clear and didactic guidance on the diagnosis, treatment and ongoing management of the full spectrum of epileptic syndromes with an insight and perception that only he can bring to the subject.This text is published in full colour throughout and is complemented by a pharmacopoeia and CD ROM with patient video-EEGs. An attractive, clear page layout and the accompanying supplementary material help the reader to easily identify the key components of each disorder, syndrome and seizure. Drawing on the author's outstanding collection of video-EEGs the accompanying CD ROM is cross-referenced within the text thus providing the reader with both a clinical and visual description of the various epileptic disorders and further aiding diagnosis.

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.

This second edition of a successful book provides updated clinical and research knowledge, including information on the licensing of new antiepileptic drugs. All chapters are updated to reflect present accepted practice. New chapters highlighting the importance of the genetic aspects of epilepsy, nonpharmacological treatments, and the impact of epilepsy on families and carers have been added. Ongoing developments in the general population, which will more likely than not become relevant to the intellectually disabled population, are discussed. The impact of epilepsy on the person themselves and their carers is acknowledged, and person-centred treatment programs with a multifaceted team approach are proposed. This book is aimed at physicians and residents in neurology and pediatrics, as well as other practitioners working with this population, such as neuropsychologists. Epilepsy and Intellectual Disabilities, Second Edition is recommended reading for all those caring for this important group of individuals.

Covering basic classifications and definitions of seizures and epilepsy, EEG technology and clinical EEG, this DVD disk proceeds to the content of EEG traces and video samples. The companion text provides black and white images of records and line drawings. It also contains introductory information on routine EEG and video monitoring.

The aim of the colloquium from which this multi-author book derives, was to outline the specific expression of epilepsies involving the limbic structures in children and to establish a consensus on the evidence relevant to the clinical management of these epilepsies. The book addresses basic questions such as age-related aetiologic, pathogenetic and prognostic factors relevant to the course of infantile epilepsies with limbic seizures, and enlightens the criteria for their clinical and laboratory assessment. The interaction between basic scientists, neuropaediatricians and neurosurgeons contributes to define suitable strategies aimed at preventing the unfavourable course of these often severe infantile epilepsies and their optimal timing.

"Electroencephalography (EEG) is an invaluable tool for evaluating patients with suspected seizures or encephalopathy, yet EEG is only one source of data, so information from this technology must be integrated with knowledge of basic science and clinical neurology. This work has a principal focus on EEG, but interleaves that discussion with information on seizures, epilepsy, encephalopathy, and other neurologic conditions for which EEG can be a useful diagnostic tool"--

More than 200 exquisite, hand-painted illustrations - created by, and in the style of, master medical illustrator Frank H. Netter, MD - capture the essential clinical aspects of over 200 major neurologic disorders seen in hospital and office practice. With its masterful combination of artwork, succinct text, and tables, and its compact format, Netter's Concise Neurology delivers quick and convenient access to vital clinical knowledge! Guides you through neurologic and relevant medical examination. Explores anatomy, anatomic localization, differential diagnosis, and diagnosis of presenting symptoms. Reviews the pathophysiology, clinical presentation, diagnosis, and management of specific conditions. Provides access to frequently needed anatomic and tabular reference information.

The Migraine Brain provides a general overview of the history of migraine, its pathophysiology, as well as in-depth details on the Clinical Perspectives and the different imaging techniques in use (MR, fMRI, DTI, VBM, PET, fMRI, and MEG). It also includes details on modulation of the brain using such techniques as TMS. The book concludes with a discussion of future uses of imaging in the diagnosis and treatment of migraines and other headaches.

Epilepsy is one of the most common potentially serious disorders of the brain, and patients often suffer from memory problems. This book comprehensively reviews all aspects of the relationship between this common and potentially serious neurological disorder and memory, one of the core functions of the human mind.

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.

The neuronal ceroid lipofuscinoses are an extremely rare group of inherited neurodegenerative diseases that primarily affect children. Core symptoms of these conditions typically include epilepsy, cognitive decline and visual failure. These diseases are so rare that professionals who come into contact with them need a consultative reference work that enables them to become expert, or identify who to contact for more details. Fully updated and revised, this second edition continues to be the definitive volume on this

devastating group of disorders. Written by an international collection of authorities in the field, it provides invaluable advice on their diagnosis, patient care, and new treatments that are available. This new edition of the definitive reference text on the neuronal ceroid lipofuscinoses will prove useful for clinicians, family physicians, research scientists, diagnostic laboratories, families affected by the disease as well as by workers in industry planning translational research.

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.

Covers all aspects of epilepsy, from basic mechanisms to diagnosis and management, as well as legal and social considerations.

Installation requires a DVD/CD drive.

A trusted resource for anyone involved in EEG interpretation, this compact handbook is designed for on-the-go reference. Covering the essential components of EEG in clinical practice, the book provides graphic examples of classic EEG presentations with essential text points of critical information to enhance reading skills to aid in improving patient outcomes. Authored by prominent experts in clinical neurophysiology, this second edition is updated to reflect current advances in ICU and intraoperative monitoring and includes new chapters on polysomnography, status epilepticus, and pediatric EEG. [A] first class resource of EEG Interpretation... highly recommended trusted resource for any health care professional dealing with patients who need an EEG investigation and particularly in epilepsies. Consistently formatted and packed with practical tips, this handbook is a highly useful tool for residents, fellows, clinicians, and neurophysiology technologists who are learning EEG interpretation or who need to make decisions while on call at the hospital and look for quick and reliable EEG information, regardless of specialty or level of training.--C. P. Panayiotopoulos, Department of Clinical Neurophysiology and Epilepsies, St. Thomas' Hospital, Journal of Clinical Neurophysiology The Handbook of EEG Interpretation, Second Edition fits in a lab coat pocket to facilitate immediate information retrieval during bedside, OR, ER, and ICU EEG interpretation. It is divided into eight sections that cover all major EEG topics including normal and normal variants, epileptiform and nonepileptiform abnormalities, seizures and status epilepticus, ICU EEG, sleep, and intraoperative monitoring. Each chapter highlights the principal challenges involved with a particular type of EEG interpretation. Consistently formatted and packed with practical tips, this handbook is a highly useful tool for residents, fellows, clinicians, and neurophysiology technologists looking for quick and reliable EEG information, regardless of specialty or level of training. Key Features of Handbook of EEG Interpretation, Second Edition: Updated and expanded to reflect advances in clinical EEG applications, including three new dedicated chapters Addresses all areas of EEG interpretation in a concise, pocket-sized, easy-to-access format Provides organized information and a visual approach to identifying EEG waveforms and understanding their clinical significance Presents information consistently for structured review and rapid retrieval Includes practical tips by notable experts throughout ...Large variety of subjects, good diagrams, thoroughly researched data....The book would make a good addition to a departmental or personal library. --American Journal of Electroneurodiagnostic Technology ...[H]elpful for neurology residents and fellows who are learning EEG interpretation or who need to make decisions while on call at the hospitalÖ --Doody's Reviews

This volume is designed to serve as a reference source containing both historical and recent references with a special focus on the existing gaps of knowledge regarding EEG deviations in psychiatric populations. Every chapter begins by outlining the clinical issues, then reviews available literature and concludes by highlighting a) currently supportable findings, and b) open research questions. In some chapters the author makes suggestions regarding the research design that will most likely lead to generating data that can move the field towards resolving unresolved issues.

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.

Designed to provide a comprehensive but accessible introduction to epilepsy and seizure disorders, Epilepsy, 2nd edition provides state-of-the-art information in a concise format useful to a wide audience, from neurology residents to epilepsy fellows and practitioners. This illustrated guide to the assessment, diagnosis, and treatment of epilepsy is a valuable resource enabling clinicians to stay on top of the latest recommendations for best practice.

This new atlas classifies EEG tracings in epileptic patients and correlates them with clinical features, etiology, and a specific diagnosis of the type of seizure. Color line diagrams pinpoint the localization of the disordered brain waves.

Amyotrophic Lateral Sclerosis (ALS) is a devastating neurodegenerative disorder with a progressive and fatal course, with no known medical therapies that can reverse the disease or halt its progression. Palliative care is the mainstay of disease management, aimed at maximizing Quality Of Life (QOL) for the patient and caregiver. Clinicians caring for patients with ALS need to understand complex psychological issues in the patient and caregiver, including depression, anxiety, hopelessness, and wish for hastened death (physician-assisted suicide). They also need to confront the psychological implications of rapidly advancing genetic research, the impact of cognitive and behavioural dysfunction in a sizable minority of ALS patients, and caregiver burnout. Healthcare providers can optimize care by better understanding not only these factors, but by learning how to facilitate their management with problem-solving, coping techniques, and with psychologically-based approaches such as mindfulness and

other non-pharmacological approaches aimed at maximizing QOL. Amyotrophic Lateral Sclerosis: Understanding and Optimizing Quality of Life and Psychological Well-Being provides a detailed review and evaluation of ALS, presented in a comprehensive and integrated fashion. The book achieves this through detailed and up-to-date information about the current state of knowledge in this field. It also offers new insights regarding future directions for research. This book will provide clinicians with a comprehensive description of the psychological aspects of ALS and their management, and incorporates chapters written by recognized scholars in their respective fields.

In one convenient source, this book provides a broad, detailed, and cohesive overview of seizure disorders and contemporary treatment options. For this Fifth Edition, the editors have replaced or significantly revised approximately 30 to 50 percent of the chapters, and have updated all of them. Dr. Wyllie has invited three new editors: Gregory Cascino, MD, FAAN, at Mayo Clinic, adult epileptologist with special expertise in neuroimaging; Barry Gidal, PharmD, at University of Wisconsin, a pharmacologist with phenomenal expertise in antiepileptic medications; and Howard Goodkin, MD, PhD, a pediatric neurologist at the University of Virginia. A fully searchable companion website will include the full text online and supplementary material such as seizure videos, additional EEG tracings, and more color illustrations.

Two of the world's leading authorities make EEG interpretation easier with this new atlas. EEG tracings are classified and correlated with relevant clinical information * and each tracing is defined by localization and polarity. Based on the EEG classification system used by the Cleveland Clinic.

This book presents advanced methodologies in two areas related to electroencephalogram (EEG) signals: detection of epileptic seizures and identification of mental states in brain computer interface (BCI) systems. The proposed methods enable the extraction of this vital information from EEG signals in order to accurately detect abnormalities revealed by the EEG. New methods will relieve the time-consuming and error-prone practices that are currently in use. Common signal processing methodologies include wavelet transformation and Fourier transformation, but these methods are not capable of managing the size of EEG data. Addressing the issue, this book examines new EEG signal analysis approaches with a combination of statistical techniques (e.g. random sampling, optimum allocation) and machine learning methods. The developed methods provide better results than the existing methods. The book also offers applications of the developed methodologies that have been tested on several real-time benchmark databases. This book concludes with thoughts on the future of the field and anticipated research challenges. It gives new direction to the field of analysis and classification of EEG signals through these more efficient methodologies. Researchers and experts will benefit from its suggested improvements to the current computer-aided based diagnostic systems for the precise analysis and management of EEG signals. /div

This is a practical book on neurological therapy. It is aimed at giving concise and updated answers to busy practicing clinicians in the clinic, ward, or emergency department. An evidence-based approach is used, but when there is no evidence or the data are inconclusive, an expert opinion is always given in order to meet the expectations of the reader. All neurological conditions, common and less common, are discussed; each chapter has a similar format, and contains an initial brief introduction on the epidemiology and clinical features of each disease. The therapy is then discussed, including pharmacological and non-pharmacological, with wide use of Tables & Figures. Flowcharts are also included in most of the chapters.

The paroxysmal disorders present neurologists and other medical professionals with diagnostic problems across a range of disorders, including multiple sclerosis, migraine and epilepsy. This new English language edition of a compendium of the paroxysmal disorders, originally published in German as Paroxysmale Störugen in der Neurologie, is an informative and practical resource for clinicians, which provides invaluable help with differential diagnosis and management. Fully updated throughout, this new edition comprehensively covers the entire spectrum of the paroxysmal disorders, including sudden falls, headache, vertigo attacks, memory loss, visual disturbances, seizures and anxiety. Each chapter is practice oriented, covering definitions, etiology, epidemiology, diagnosis, examination techniques and therapy. Detailed guidelines for gathering case-histories, essential for accurate diagnosis, are also provided. Important reading for clinicians, professionals and academic researchers working in neurology, psychiatry, epilepsy, internal medicine and ENT.

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.

Unlike many other diagnostic procedures, EEG, now over 80 years old, and epilepsy monitoring, now over 40 years old, have demonstrated their usefulness and stood the test of time. Although the benefits of these diagnostic procedures are clear, monitoring is currently not available to the majority of patients in need. One of the factors limiting broader implementation is the lack of practitioners with special expertise. Epilepsy and Intensive Care Monitoring was developed to address this concern. This practical volume contains detailed chapters covering all areas of clinical epilepsy monitoring. Featuring expert authors from major epilepsy centers, this seminal work reviews all current procedures and applications for monitoring adults and children with epilepsy in the Epilepsy Monitoring Unit and the ICU. Opening sections are devoted to indications, procedures, administrative considerations, and technical aspects of the Epilepsy Monitoring Unit and ICU monitoring, followed by dedicated sections on EEG diagnosis and localization and monitoring of neurological disorders in the Epilepsy Monitoring Unit and ICU. The book concludes with special procedures and an Appendix with guidelines for organizing epilepsy monitoring centers and technical aspects of EEG monitoring. Key Features include Covers both adult and pediatric Epilepsy Monitoring Unit and ICU monitoring Contains over 235 high-quality EEGs and other illustrations, including an 8-page color section Comprehensive coverage; no other book in this area has comparable breadth and depth Clinical Focus Expert authors tell you when and how to perform the procedures they discuss

Essentials of Hospital Neurology is a concise and practical guide to the diagnosis and management of neurologic disorders commonly encountered in hospital practice. This book discusses the business of hospital neurology, problem-oriented approaches to diagnosis, clinical details of important neurologic disorders that may be seen in the ER and inpatient settings, and key diagnostic and management strategies. This text focuses on practical management, making this an excellent source for the neurologist at any level from the resident to fellow to practicing physician. Medicine hospitalists and hospital-based mid-level providers will find this a useful resource for guiding care of their patients with

neurologic conditions. Key Features of Essentials of Hospital Neurology - Incorporates up-to-date guidelines and best practices for neurologic hospital care; - Extensive use of bulleted lists, tables, and flowcharts; - Noted academic coauthors of selected sections for subspecialty expertise; - Provides key references and recommended readings; and - Includes critical reference material such as assessment scales, neurologic diagnostic tests, and guides to management of social and ethical issues.

It is well known that the incidence of epilepsies is higher in this age period than in any other time in the life span. The frequent occurrence of seizures refractory to antiepileptic drug treatments is of great concern. On the opposite side of the spectrum, the group of benign epilepsy syndromes presented in this book is clearly more prevalent in childhood than the intractable epilepsies. Neurologists and paediatricians should be familiar with these conditions because accurate diagnosis, and its consequent good prognosis, may save much suffering to the family. Special emphasis, however, is given to the small proportion of children who, in spite of presenting a usually benign disease, show an atypical evolution which hampers their neuropsychological development. It is fundamental to be aware of the possible ill effects of some antiepileptic drugs in these cases. Finally, advancements in the recognition of new - and not so rare - epileptic syndromes are presented. All the subjects are supported by extensive experience of the authors based in large series of patients.

Epilepsy is one of the most common neurological disorders, with a prevalence of 4-10/1000. The book contains the practical methods to approaching the classification and diagnosis of epilepsy, and provides information on management. Epilepsy is a comprehensive book which guides the reader through all aspects of epilepsy, both practical and academic, covering all aspects of diagnosis and management of children with epilepsy in a clear, concise, and practical fashion. The book is organized so that it can either be read cover to cover for a comprehensive tutorial or be kept desk side as a reference to the epilepsy. Each chapter introduces a number of related epilepsy and its diagnosis, treatment and co-morbidities supported by examples. Included chapters bring together valuable materials in the form of extended clinical knowledge from practice to clinic features.

(Symp. Seattle

Editor John Ebersole, MD and his two new associate editors, with a team of nationally recognized authors, wrote this comprehensive volume, perfect for students, physicians-in-training, researchers, and practicing electroencephalographers who seek a substantial, yet practical compendium of the dynamic field of electroencephalography. In addition to cogent text, enjoy illustrations, diagrams, and charts that relate EEG findings to clinical conditions. Established areas of clinical EEG are updated, newly evolving areas are introduced, and neurophysiological bases are explained to encourage understanding and not simply pattern recognition. The best practitioners know that EEG is never stagnant; stay up-to-date and ready to use EEG to its fullest potential. FEATURES -Over 500 illustrations, figures and charts -Chapters span the full range of EEG applications -Demystifies advanced procedures and techniques -Topics include intraoperative monitoring, ICU EEG, and advanced digital methods of EEG and EP analysis

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

This book critically appraises the role and value of specific diagnostic and treatment techniques for drug-resistant, MRI-negative epilepsy. The authors present the evidence and share their expertise on the diagnostic options and surgical approaches that make epilepsy surgery possible and worthwhile in this complex and challenging condition.

Textbook of Epilepsy Surgery covers all of the latest advances in the surgical management of epilepsy. The book provides a thorough understanding of epileptogenic mechanisms in etiologically different types of epilepsy and explains neuronavigation systems. It discusses new neuroimaging techniques, new surgical strategies, and more aggressive surgic

The EEG is a simple and widely available neurophysiological test that, if interpreted correctly, can provide valuable insight into the functioning of the brain. However, despite its increasing usage in a range of settings, there is a common misconception that the EEG is inherently difficult to interpret. Compounding the problem is the lack of dedicated training and no standardized approach by encephalographers. This book provides a clear and concise guide to reading and interpreting EEGs in a systematic way. Presented in three sections, the first delivers foundational technical knowledge of how EEGs work, and the second concentrates on a comprehensive, stepwise approach to reading and interpreting an EEG. The third section contains examples of EEGs in common scenarios, such as seizures and post-cardiac arrest, enabling readers to correlate their findings to clinical indications. Heavily illustrated with over 200 example EEGs, this is an essential pocket guide to interpreting these tests.

This book takes an in depth and hard look at the current status and future direction of treatment predictive markers in Personalized Medicine for the brain from the perspectives of the researchers on the cutting edge and those involved in healthcare implementation. The contents provide a comprehensive text suitable as both a pithy introduction to and a clear summary of the "science to solutions" continuum in this developing field of Personalized Medicine and Integrative Neuroscience. The science includes both measures of genes using whole genome approaches and SNIPS as well as BRAINmarkers of direct brain function such as brain imaging, biophysical changes and objective cognitive and behavioral measurements. Personalized

Medicine for Brain Disorders will soon be a reality using the comprehensive quantitative and standardized approaches to genomics, BRAINmarkers and cognitive function. Each chapter provides a review of recent relevant literature; show the solutions achieved through integrative neuroscience and applications in patient care thus providing a practical guide to the reader. The timeliness of this book's content is propitious providing bottom line information to educate practicing clinicians, health care workers and researchers, and also a pathway for undergraduate and graduates interested in further their understanding of and involvement in tailored personal solutions.

This concise text mirrors the content of the Epilepsy Board as distributed by the American Board of Psychiatry and Neurology. Epilepsy diagnosis, classification and treatment are thoroughly covered, along with seizure classification, epidemiology, normal and abnormal EEG, and treatment with antiepileptic medications and other modalities. Formatted with multiple choice questions and explanations, this complete resource will prepare physicians and students for the Epilepsy Board examination and provide the latest clinical approaches.