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Progress in epileptic spasm and West syndrome **Infantile Spasms** *Infantile Spasms and West Syndrome* Infantile Spasms **Adverse Effects of Pertussis and Rubella Vaccines Epileptic Syndromes in Infancy, Childhood and Adolescence** *Infantile Spasms: New Insights for the Healthcare Professional: 2011 Edition* Long-term Evolution of Epileptic Encephalopathies Falls in Epileptic and Non Epileptic Seizures During Childhood **Pediatric Neurology Part I** Intractable Seizures Infantile Spasms: New Insights for the Healthcare Professional: 2012 Edition **Myoclonic Seizures The Role of Homeostatic Plasticity Mechanisms in Infantile Spasms Epilepsy Orphan drugs in epilepsy** Epileptic Syndromes in Infancy, Childhood and Adolescence - 6th edition *Jasper's Basic Mechanisms of the Epilepsies* Panayiotopoulos Syndrome **Infantile Spasms Epilepsy in Children Seizures and Syndromes of onset in the Two First Years of Life** *Epilepsy in Childhood and Adolescence* **Plan for Nationwide Action on Epilepsy Atlas of Epilepsies** *Pediatric Epilepsy* **Epileptic Syndromes in Infancy, Childhood and Adolescence - 5th edition The Epilepsies** Pediatric Epilepsy **The role of EEG in the diagnosis and classification of the epilepsy syndromes** Advances in Epilepsy Research and Treatment: 2013 Edition *Epilepsy The Treatment of Epilepsy* **Absolute Epilepsy and EEG Rotation Review Childhood Seizures** *Epilepsy Case Studies Clinical Management of Seizures The Causes of Epilepsy* **Biology of seizures susceptibility in developement brain** *Epilepsies of Childhood* **Wyllie's Treatment of Epilepsy**

Clinical Management of Seizures Apr 27 2020 This handy clinical reference discusses the diagnosis and treatment of all forms of epilepsy. Pharmacologic agents and their clinical uses are covered in detail through case studies and EEG interpretations. Also includes information on the treatment of epileptic patients afflicted with other diseases, and pregnant and psychotic patients.

Panayiotopoulos Syndrome Nov 14 2021 Details advanced knowledge on clinical and EEG aspects of Panayiotopoulos syndrome, that affects 6 percent of children with epileptic seizures and it is entirely benign. The spectrum of EEG with occipital and often extra-occipital spikes is richly illustrated as an EEG atlas. Relations with Rolandic, other childhood seizure susceptibility syndromes and Gastaut type idiopathic occipital epilepsy are analytically studied. Panayiotopoulos details the clinical and EEG manifestations, prevalence, pathophysiology and management of 'Panayiotopoulos syndrome' as it emerged from his long-term prospective studies of the author and worldwide documentation through independent studies. He masterly describes the particular type of seizure associated with his syndrome. Panayiotopoulos makes this book a reference for specialists.

Biology of seizures susceptibility in developement brain Feb 24 2020 Underling biology that governs the age-dependent seizure susceptibility is a new, exciting research field for every pediatric epileptologists and developmental nouroscientists. From daily practice, clinicians are well aware about a close correlation between the degree of seizure susceptibility and age of the individual. Pathophysiological mechanisms involved are multiplex, including race/gender nutrition, receptors/ion channels, dysgenesis, pharmacokinetics of AEDs, acute illnesses/inflammation and many others. In this book, the top-ranked experts contributed their original papers dealing with the cutting edge of knowledge in various aspects of underlying biology. Each article presents a comprehensive review of the subjects, guiding the readers to better understanding the contemporary status of achievements in this challenging research field.

Orphan drugs in epilepsy Feb 15 2022 All the necessary information on 6 molecules called “orphan

drugs" used in the treatment of some epileptic syndromes. More than half of epilepsies start before the age of 20 years and nearly 25% of them are refractory. Two problems arise: - It is essential to treat them so that brain development continues as normally as possible. - There are few drugs available. This work outlines 6 molecules in detail that are specifically used in epileptic encephalopathies. Every aspect of these molecules is discussed, including drug development, indication, efficacy, cost, etc. Drafted by international experts in the field of epileptology, this book provides all the necessary information on orphan drugs and their clinical use.

The Role of Homeostatic Plasticity Mechanisms in Infantile Spasms Epilepsy Mar 19 2022 The proper function of cortical circuits depends critically on balancing excitation and inhibition during development. Cellular and synaptic homeostatic mechanisms in both excitatory and inhibitory neurons are thought to be major contributors to achieving this balance and to maintaining stable activity levels. We hypothesized that failures of this maturational process lead to epileptic disorders such as Infantile Spasms Epilepsy (ISE or West syndrome), a group of devastating childhood epileptic encephalopathies. Specifically, we hypothesized that prolonged activity deprivation during a key developmental window triggers an abnormal recruitment of homeostatic plasticity mechanisms, which results in an acquired imbalance between cortical excitation and inhibition and drives post-activity deprivation seizures. We sought to identify the cellular loci of changes causal to Infantile Spasms (ISE), by characterizing excitability and synaptic connectivity changes triggered by prolonged activity deprivation in an in vitro model of ISE based on the in vivo activity deprivation model created by Lee et al, 2008 and recapitulated in mice by Dr. Praveen Taneja in our lab.

The Epilepsies Feb 03 2021 This book gives an exhaustive account of the classification and management of epileptic disorders. It provides clear didactic guidance on the diagnosis and treatment of epileptic syndromes and seizures through thirteen chapters, complemented by a pharmacopoeia and CD ROM of video-EEGs.

Infantile Spasms: New Insights for the Healthcare Professional: 2011 Edition Oct 26 2022 Infantile Spasms: New Insights for the Healthcare Professional: 2011 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about Infantile Spasms in a compact format. The editors have built Infantile Spasms: New Insights for the Healthcare Professional: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Infantile Spasms in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Infantile Spasms: New Insights for the Healthcare Professional: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Adverse Effects of Pertussis and Rubella Vaccines Dec 28 2022 Parents have come to depend on vaccines to protect their children from a variety of diseases. Some evidence suggests, however, that vaccination against pertussis (whooping cough) and rubella (German measles) is, in a small number of cases, associated with increased risk of serious illness. This book examines the controversy over the evidence and offers a comprehensively documented assessment of the risk of illness following immunization with vaccines against pertussis and rubella. Based on extensive review of the evidence from epidemiologic studies, case histories, studies in animals, and other sources of information, the book examines: The relation of pertussis vaccines to a number of serious adverse events, including encephalopathy and other central nervous system disorders, sudden infant death syndrome, autism, Guillain-Barre syndrome, learning disabilities, and Reye syndrome. The relation of rubella vaccines to

arthritis, various neuropathies, and thrombocytopenic purpura. The volume, which includes a description of the committee's methods for evaluating evidence and directions for future research, will be important reading for public health officials, pediatricians, researchers, and concerned parents.

Absolute Epilepsy and EEG Rotation Review Jul 31 2020 This book contains the most essential information needed for an epilepsy/ EEG rotation. Chapters are formatted with bullet points and feature clinical pearls. Concise and easy-to-read, this quick reference provides neurology residents, clinical neurophysiology and epilepsy fellows, and other clinicians with the most critical information in epilepsy and EEG in a simplified, yet comprehensive format. Divided into two sections, the book first covers the diagnosis, characteristics, and treatment of epilepsy. The second section focuses on EEG placement, procedures, and patterns in various neurological disorders.

Infantile Spasms Jan 29 2023

Infantile Spasms and West Syndrome Feb 27 2023 This resource provides practical guidance on differential diagnosis, investigation and treatment of West Syndrome and infantile spasms. The definition of both conditions has been revised in accordance with new aetiological data. The latest research on pathophysiology is included.

Epilepsy in Children Sep 12 2021

Childhood Seizures Jun 29 2020

Wyllie's Treatment of Epilepsy Dec 24 2019 Wyllie's Treatment of Epilepsy: Principles and Practice, 6th edition provides a broad, detailed, and cohesive overview of seizure disorders and contemporary treatment options. Written by the most influential experts in the field and thoroughly updated to provide the most current content, Wyllie's Treatment of Epilepsy assists neurologists and epilepsy specialists, neurology residents and fellows, and neuropsychologists in assessing and treating their epileptic patients with the latest treatment options. Dr. Wyllie is once again joined by associate editors Drs. Gidal and Goodkin, as well as newcomers Dr. Joseph Sirven of the Mayo Clinic and Dr. Tobias Loddenkemper, Assistant Professor of Neurology at Harvard Medical School, who specializes in epilepsy research and treatment, particularly for the pediatric population. In-depth review of the subspecialties of epileptology, i.e., neuroimaging, epilepsy surgery, antiepileptic medications A comprehensive single-volume text on epileptology Clinically oriented, evidence-based reference Online bank of over 500 board review-style questions highlight key concepts for board examinations and clinical practice

Progress in epileptic spasm and West syndrome May 01 2023 Since its first description (1841) the identity of West syndrome was deeply investigated and is now recognized as an epileptic syndrome in infancy (ILAE Task Force, 1989). West syndrome has become a paradigmatic model of an epileptic syndrome causing neurological deterioration (epileptic encephalopathy) and the object of a number of studies aimed at understanding the complex relationships between an epileptic disorder and neurodevelopment. Although the symptomatic triad (peculiar electrographic findings named hypsarrhythmia, brief tonic spasms, and arrest of psychomotor development) that characterizes the syndrome suggests a unique pathogenetic mechanism, causal heterogeneity heavily influences syndrome variability in terms of neurodevelopment, treatment choices, management and, possibly, electroclinical semiology. Important insights may arise for that might help developing models of epileptic encephalopathies in the basic sciences. However, a more immediate benefit may arise for clinicians in everyday practice. A group of clinical researchers recently met in Rome to discuss hot points concerning infantile spasms and West syndrome. Their contributions were collected and are presented in this book that we hope will contribute to the progress of knowledge of this paradigmatic epileptic disorder.

Advances in Epilepsy Research and Treatment: 2013 Edition Nov 02 2020 Advances in Epilepsy Research and Treatment: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Seizures. The editors have built Advances in Epilepsy Research

and Treatment: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Seizures in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Epilepsy Research and Treatment: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

The Treatment of Epilepsy Aug 31 2020 A practical reference to the medical and surgicaltreatment of epilepsy The third edition of The Treatment of Epilepsy has beenthoroughly updated. It is a reference work, but has a strongpractical bias, and is designed to assist neurologists,neurosurgeons and other clinicians at all levels who are involvedin the treatment of patients with epilepsy. It is a definitivesource of clinical information to guide clinical practice andrational therapy. Written and edited by leading experts, many actively involvedwith the International League Against Epilepsy, this newedition: covers the recent advances in the principles and approaches toepilepsy therapy, the introduction of new drugs and the developmentof new surgical techniques contains 26 completely new chapters and 61 newcontributors includes pharmacological properties and prescribing informationfor all drugs used in the treatment of epilepsy features the important contribution of a new editor JeromeEngel Jr, Professor of Neurology at the University of CaliforniaSchool of Medicine in Los Angeles.

Long-term Evolution of Epileptic Encephalopathies Sep 24 2022 The essential guide for physicians, healthcare professionals and social services dealing with epileptic encephalopathies. The present book covers the long-term evolution of epileptic encephalopathies in terms of clinical symptomatology, cognitive functions, treatment strategies and social care options. It will help clinicians, healthcare practitioners and social service professionals to better understand the natural history of epileptic encephalopathies, to identify specific management issues and to develop appropriate care strategies for this category of patients.

Epilepsy Oct 02 2020 Epilepsy is among the most common scourges afflicting the health of humankind and perhaps the most terrifying. In one form or another, it is suffered by one in everyone hundred people on earth, with a disproportionate prevalence at the early and late extremes of life. There is nothing sacred or sanctifying about it in spite of Hippoc rates' terming epilepsy "The Sacred Disease" in a famous treatise. There is nothing ennobling about it despite its occasional designa tion as a "noble disorder" by virtue of i ts having affected the likes of Alexander of Macedon, Julius Caesar and other persons of royal lineage. From time to time, epilepsy is hailed as a condition which is artistically inspirational; Fyodor Dostoyevsky's dependence on his own personal experience with complex partial epilepsy as a source of imagery in the transfiguration scenes of The Brothers Karamazov and as a source of experience in The Idiot is often cited in this respect. In fact, for all its victims in human history, epilepsy has been a sad burden which has disrupted and shortened life, causing suffering and castigation for the duration of their terrestrial journey.

Pediatric Neurology Part I Jul 23 2022 Infantile spasms are a unique disorder of infancy and early childhood. The average age at onset of infantile spasms is 6 months and the average incidence of the disorder is approximately 0.31 per 1000 live births. Approximately one-quarter of patients will spontaneously stop having spasms within 1 year of onset. There are three main types of epileptic spasms: flexor, extensor, and mixed flexor–extensor. Spasms frequently occur in clusters and commonly occur upon arousal from sleep. The motor spasms are frequently confused with other normal and abnormal infant behaviors. Typically, the interictal EEG reveals hypsarrhythmia or one of its variants. A variety of ictal EEG patterns may be seen, the most common of which is a generalized slow-wave transient followed

by an attenuation of the background activity in all regions. The primary treatment objective is to improve the EEG and stop the spasms as soon as possible and to avoid prolonged treatment durations with any form of therapy. Currently, there is no conclusive evidence that medical or surgical treatment of infantile spasms significantly alters long-term outcome. Although the pathophysiological mechanism underlying infantile spasms is unknown, several animal models of infantile spasms have been developed in recent years

Plan for Nationwide Action on Epilepsy Jun 09 2021

Epileptic Syndromes in Infancy, Childhood and Adolescence - 5th edition Mar 07 2021 The ultimate reference book : the 5th updated edition of the famous “blue guide”. Incluided : A DVD with new sequences completes each chapter! Epileptology changes. The syndromic approach is completed by an etiological approach, based on the major advances in genetics and functional genetics. New entities have found their place, and a purely descriptive, “electroclinical” approach is no longer adapted in many circumstances. The 5th edition of the Blue Guide includes the most recent advances. It was necessary to justify the physiological, epidemiologic, genetic and therapeutic approaches and to consider them in the light of the new classification efforts, which are still in the making. Nevertheless, the description of epileptic syndromes, both classical and recent, remains at the core of this book.

Infantile Spasms Mar 31 2023 The etiology of infantile spasms/West syndrome remains unknown; the pathophysiology is poorly understood and the optimal course of treatment is controversial. The primary goal of this volume is to carefully assess all aspects of the disorder, provide the reader with a concise guide to the most effective and efficient means for establishing the diagnosis, formulating an appropriate treatment plan and assessing the outlook for long-term outcome. Infantile Spasms: Diagnosis, Management and Prognosis also aims to provide a compact and structured knowledge-base which can be used to facilitate the development of future research protocols designed to uncover the basic mechanisms underlying this disorder and lead to more effective treatment modalities.

Myoclonic Seizures Apr 19 2022

Seizures and Syndromes of onset in the Two First Years of Life Aug 12 2021 A reference book on diagnosis, consequences and management of neonatal and infantile seizures There is a very high incidence of seizures during the first two years of life. This may reflect multiple etiologies depending on the circumstances under which seizures occur. They may have a benign cause but for others they may lead to more devastating consequences. This book provides new insights on how it is best to approach seizures and epilepsy in the first two years of life, to systematically create a blueprint upon which diagnostic and treatment decisions can be based. Ongoing efforts are to understand: - How seizures may occur in the developing brain? - What are their consequences? - Which biomarkers are being developed? - What are the effective treatments to promptly stop ongoing seizures and alter the course of epileptic encephalopathies? The data are highly reflecting the state of the art and also individualize for the particular milieu of the patient in taking into account both nature (i.e. genetics), and nurture (i.e. events that may interfere with normal development) and result in seizures and epilepsy.

Intractable Seizures Jun 21 2022 About 20% of people with epilepsy have seizures which are resistant to anticonvulsant medications. These drug-resistant seizures are called `intractable', and the patients who have them - about 1 in 500 of the general population - present a major challenge to neurologists and epilepsy associations. The present volume describes the symptomatology of the major `intractable' syndromes, the most appropriate drugs for each, and the possibilities for surgical control. Research related to the causes and effects of unchecked seizures is presented, and new directions in prevention and therapy are discussed.

Pediatric Epilepsy Jan 05 2021 Market: Neurologists and pediatricians Diagnostic and treatment algorithms appear throughout Includes sections on comorbidities and monotherapy vs. polytherapy

Epilepsy in Childhood and Adolescence Jul 11 2021 This book analyses the impact of epilepsy that develops in childhood. As sufferers of epilepsy move from childhood into adulthood, the shift in primary responsibility for their healthcare moves from their guardians onto themselves; the transition through this important time is also addressed. As well as reviewing the literature, the authors have provided their personal approach to caring for individual problems.

Epilepsies of Childhood Jan 23 2020

The role of EEG in the diagnosis and classification of the epilepsy syndromes Dec 04 2020 This book, written by international experts in clinical epileptology and EEG, comprehensively covers the clinical and EEG features of all paediatric and adult epilepsy syndromes, as recognized by the ILAE. Each syndrome-chapter provides detailed description of the associated seizure types and the characteristic interictal findings in wakefulness and sleep, illustrated by a plethora of EEG plates. It also includes recording protocols that, adapted to available resources and complete with practical information to improve recording strategies, are designed to maximize diagnostic yield. Finally, the diagnostic confidence of the EEG report is rated according to the findings in hand and the available clinical information. A fully informative, but concise and easy-to-use, companion in the daily clinical practice for electroencephalographers and EEG technologists, but also a reference guide for epileptologists and general neurologists who care for children and adults with epilepsy.

Falls in Epileptic and Non Epileptic Seizures During Childhood Aug 24 2022 At the Mariani Foundation meeting held in Milan, October 1995, highly qualified specialists were invited to assist in understanding of the basic principles of cerebral development and brain function, with specific attention to those structures and mechanisms involved in the phenomenon of falls. Epiliptologists illustrate the different semiologic modalities and clinical conditions in which the fall is an essential symptom. A main part of the book is dedicated to the medical and surgical treatment of syndromes where falls appear in the foreground. This volume has the mission of improving life conditions of children who suffer from drop seizures, by limiting the risks to which they are subjected, and to try and compensate for the psychological and social limitations affecting them.

Atlas of Epilepsies May 09 2021 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.

Epileptic Syndromes in Infancy, Childhood and Adolescence - 6th edition Jan 17 2022 Since 1984, the year of the publication of its first edition, the famous "Blue Guide" has been the international reference for paediatricians and neuropaediatricians with regard to epileptic syndromes in infants, children and adolescents. This 6th edition reviews some of the most noteworthy developments in the field, particularly

in epileptic syndromes, but also focuses on the genetic aspects of the syndromes and their development. Progress brought about by advances in neuroimaging is also discussed in addition to specific etiologies such as parasitic diseases and immune and autoimmune diseases. The different backgrounds of the contributors - coordinators and authors – ensure that the book's longstanding reputation for objectivity and seriousness, built over almost 35 years, remain well-deserved. This book written by the current leading specialists is recognized worldwide as the international reference in epilepsy.

Epileptic Syndromes in Infancy, Childhood and Adolescence Nov 26 2022 Book and DVD. The fourth edition of Epileptic syndromes in Infancy, Childhood and Adolescence is based on the syndromic approach to epilepsy that is the trademark of the Marseille School of European epileptology, including new perspectives. The accompanying DVD includes video sequences of the various syndromes.

Infantile Spasms Oct 14 2021

The Causes of Epilepsy Mar 26 2020 Causation is an aspect of epilepsy neglected in the scientific literature and in the conceptualization of epilepsy at a clinical and experimental level. It was to remedy this deficiency that this book was conceived. The book opens with a draft etiological classification that goes some way to filling the nosological void. The book is divided into four etiological categories: idiopathic, symptomatic, cryptogenic, and provoked epilepsies. Each chapter considers topics in a consistent fashion, dealing with the phenomenon of epilepsy in each etiology, including its epidemiology, clinical features and prognosis, and any specific aspects of treatment. The book is a comprehensive reference work, a catalogue of all important causes of epilepsy, and a clinical tool for all clinicians dealing with patients who have epilepsy. It is aimed at epileptologists and neurologists and provides a distillation of knowledge in a form that is helpful in the clinical setting.

Infantile Spasms: New Insights for the Healthcare Professional: 2012 Edition May 21 2022 Infantile Spasms: New Insights for the Healthcare Professional / 2012 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about Infantile Spasms in a compact format. The editors have built Infantile Spasms: New Insights for the Healthcare Professional / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Infantile Spasms in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Infantile Spasms: New Insights for the Healthcare Professional / 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Epilepsy Case Studies May 28 2020 This book presents a case based approach to epilepsy management in both diagnostic challenges and treatment of complex cases. Cases reflect "real life" patient scenarios that practitioners encounter with up-to-date terminology and treatment approaches. With 51 chapters, the book presents 51 unique, nuanced cases. Beginning with an initial presentation of a case history, the book opens with a basis for drawing in multiple aspects in the treatment of patients with epilepsy. Each chapter is organized into a clinical history, physical examination results, and ancillary testing to concentrate on differential diagnosis and focus on a definitive procedural approach to the final diagnosis. Subsequent information about the condition expands on the knowledge of the clinical features to a solution of common patient clinical scenarios as it affects people with epilepsy. A comprehensive successor edition, Epilepsy Case Studies is an invaluable resource to clinicians ranging from those looking for a quick review of a topic present in the table of contents, to those crossing disciplines into medical areas where seizures are a symptom of disordered or dysfunctional brain.

Pediatric Epilepsy Apr 07 2021 The extensively updated third edition of Pediatric Epilepsy: Diagnosis

and Therapy continues to be the definitive volume on the diagnosis, treatment, classification, and management of the childhood epilepsies. Written by nearly 100 international leaders in the field, this new edition progresses logically with major sections on the basic mechanisms of the disease, classification, epidemiology, etiology, diagnosis, and age-related syndromes of epilepsy. The core of the new third edition is its completely updated section on antiepileptic drugs, including an in-depth discussion of dosage considerations, drug toxicity, teratogenicity, and drug interactions, with recommendations for optimal combinations when multiple drug therapy is required. Features unique to the third edition include: Expanded section on the basic science and mechanism of epilepsy Completely updated drug chapters, including newly released drugs and those in development Expanded chapters on vagus nerve stimulation and surgical treatment Expanded section on co-morbidities The third edition includes 21 new chapters, including discussions of: epileptic channelopathies; epileptogenic cerebral cortical malformation; epilepsy genes; etiologies and workup; evidence-based medicine issues related to drug selection; Levetiracetam; Sulthiame; Pregabalin; herbal medications; basic and advanced imaging; immunotherapy issues; vagus nerve stimulation therapy; cognitive and psychiatric co-morbidities and educational placement; and psychosocial aspects of epilepsy.

Jasper's Basic Mechanisms of the Epilepsies Dec 16 2021 H.H. Jasper, A.A. Ward, A. Pope and H.H. Merritt, chair of the Public Health Service Advisory Committee on the Epilepsies, National Institutes of Health, published the first volume on Basic Mechanisms of the Epilepsies (BME) in 1969. Their ultimate goal was to search for a "better understanding of the epilepsies and seek more rational methods of their prevention and treatment." Since then, basic and clinical researchers in epilepsy have gathered together every decade and a half with these goals in mind -- assessing where epilepsy research has been, what it has accomplished, and where it should go. In 1999, the third volume of BME was named in honor of H.H. Jasper. In line with the enormous expansion in the understanding of basic epilepsy mechanisms over the past four decades, this fourth edition of Jasper's BME is the most ambitious yet. In 90 chapters, the book considers the role of interactions between neurons, synapses, and glia in the initiation, spread and arrest of seizures. It examines mechanisms of excitability, synchronization, seizure susceptibility, and ultimately epileptogenesis. It provides a framework for expanding the epilepsy genome and understanding the complex heredity responsible for common epilepsies as it explores disease mechanisms of ion channelopathies and developmental epilepsy genes. It considers the mechanisms of conditions of epilepsy comorbidities. And, for the first time, this 4th edition describes the current efforts to translate the discoveries in epilepsy disease mechanisms into new therapeutic strategies. This book, considered the 'bible' of basic epilepsy research, is essential for the student, the clinician scientist and all research scientists who conduct laboratory-based experimental epilepsy research using cellular, brain slice and animal models, as well as for those interested in related disciplines of neuronal oscillations, network plasticity, and signaling in brain strucutres that include the cortex, hippocampus, and thalamus. In keeping with the 1969 goals, the book is now of practical importance to the clinical neurologist and epileptologist as the progress of research in molecular genetics and modern efforts to design antiepileptic drugs, cures and repairs in the epilepsies converge and impact clinical care.

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