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Springer Science & Business Media

This book addresses the challenges in the differential diagnosis and management of paroxysmal movement disorders. It provides the latest information on the genetics and pathophysiology, neurophysiology and neuroimaging of the core group of disorders in the field, namely the paroxysmal dyskinesias (PxD). Focused and concise, this guide features chapters that discuss other conditions that may be paroxysmal such as, episodic ataxia, startle syndromes and other more complicated groups of

paroxysmal movement disorders such as ATP1A3 spectrum disorders. A chapter on secondary (acquired) paroxysmal dyskinesia highlights medical and other disorders that may result in paroxysmal dyskinesia. The book features a particularly nuanced chapter that discusses recent discoveries in the genetic aspects of PxD, relaying that paroxysmal dyskinesias are not channelopathies, but in fact are synaptopathies and transportopathies. Additionally, expertly written chapters are supplemented by high quality images, tables, and videos. Paroxysmal Movement Disorders: A Practical Guide is primarily written to educate the reader on how to make a syndromic

diagnosis of paroxysmal movement disorders and how to build the diagnostic work-up accordingly, as well as how to manage patients with paroxysmal movement disorders.

Palliative Care in Neurology John Wiley & Sons

Sports Neurology is designed to be a comprehensive overview of neurology within the context of sports medicine. This definitive text addresses the history of sports neurology, including its unique role within sports medicine, and provides a detailed assessment of central and peripheral nervous system injuries and illnesses in athletes. *Sports Neurology* is a critical companion for all sports medicine clinicians and for neurologists who manage

athletes. Provides an introduction and overview of concussion in sport, discussing the epidemiology, biomechanics and pathophysiology of concussion, as well as considerations for sideline evaluation and emergency room diagnosis and management. Explores the long-term consequences of concussion and repetitive head impacts and the relationship with neurodegeneration. Offers an overview of mild, moderate and severe brain injury classification; compares moderate and severe traumatic brain injury within the context of civilian, military and sports circumstances. Provides an overview of neuroepidemiology and the importance of obtaining meaningful sport-related neuroepidemiologic data that will ultimately provide the foundation for making data-driven decisions for central and peripheral nervous system injuries in sport.

Teleneurology John Wiley & Sons

The second revised edition of this text will update and present current state of the art clinical approaches to this subject. This book will continue to be the source text of information on drug-induced movement disorders authored and edited by the pioneers in the field. It will be an invaluable addition to the library of any neurologist.

Acute Brain and Spinal Cord Injury Elsevier

There is perhaps no area of neuro-ophthalmology that is advancing more rapidly with respect to an understanding of its anatomy and physiology than the ocular motor system. For this reason, it is difficult not only to keep up with the latest information concerning the basic mechanisms involved in the control of eye movements but also to remain up to date regarding the pathophysiology of specific disorders of eye movement. The material in this book is derived from a two-day course on eye movements held in The Netherlands in 1986. The course was designed as an introduction to the normal ocular motor system and to disorders of eye movements and was aimed toward orthoptists, ophthalmologists, optometrists, neurologists, and neurosurgeons. The chapters in this book were compiled by a trio of experts in the field of eye movements and contain discussions of anatomy and physiology of the ocular motor system, techniques of examination of patients with diplopia, and pathophysiology of specific disorders of ocular motility. Many of the authors of these chapters are among the most active investigators of eye movements in the world today, and their

comments thus reflect the latest information in the field. This text is both basic and comprehensive and thus has something for everyone, from the student just beginning a study of the ocular motor system to the seasoned 'veteran' who wishes to know the latest information regarding central ocular motor control mechanisms. Neil R.

Infections of the Nervous System Springer Science & Business Media

Following recent guidelines set by the International Classification of Headache Disorders, this reference presents the most current diagnostic and treatment protocols for migraine and other headache conditions. Chapters are authored by internationally renowned headache clinicians and scientists, including several past presidents of the American Headache Society and the International Headache Society. User-friendly and up-to-date, this reference offers useful tables, algorithms, and diagrams that lead clinicians to effective treatments for the management of migraine and the reduction of migraine severity.

Livewired John Wiley & Sons

This book approaches the basic features of autonomic dysfunction in a practical way, complemented by an examination of unique and didactic case reports. Unlike other books on autonomic disorders, its goal is to provide a brief, practical and ready to use resource for physicians faced with patients' autonomic complaints. Autonomic dysfunctions are specific disorders that affect or are related to the autonomic nervous system. Despite being primarily a field of neurology, it also has important ties to cardiology, endocrinology, gastroenterology and many other medical specialties. Moreover, as the action of the autonomous system tends to be diffuse, affecting different systems and organs throughout the body, its disorders may present a complex and multifaceted background, complicating its diagnosis, clinical evaluation and management. Thus, it is important to gather all the relevant information about autonomic dysfunction in a handy and practical way, providing an accessible guide for professionals and practitioners across a wide range of specialties. The content presented in this book is divided into two main parts: In the first part, the general principles of autonomic dysfunction are discussed. Here the reader will find information on the anatomy, physiology and pharmacology of the nervous system, the classification of autonomic disorders, general evaluation of these

disorders and the principles of their management. In the second part, clinical cases for the most important autonomic disorders are presented and discussed in detail, particularly in light of their special importance for differential diagnosis. Using a clinical case-based approach, *Evaluation and Management of Autonomic Disorders* offers readers – primarily but not exclusively general practitioners in the fields of neurology, internal medicine, family medicine and cardiology – rapid access to the information required for the evaluation and management of these complex patients.

Autoimmune Neurology Elsevier

This book is an invaluable resource for the diagnosis and management of neurological illnesses in the emergency setting. It emphasizes the quality of prognosis to be contingent on the prompt management of these illnesses. *Emergency Neurology, Second Edition* follows the exemplary format of the previous edition, with comprehensive chapters on every neurological emergency, including stroke, headache, back pain, dizziness, vertigo, syncope, visual loss, diplopia, facial nerve palsy, weakness, altered mental status, coma, meningitis and encephalitis, seizures, and spinal cord disorders. Chapters emphasize the clinical presentation, diagnostic studies and management, and include high-quality images and tables that are invaluable for rapid diagnosis and therapy. Building off its predecessor's success, *Emergency Neurology, Second Edition* is an excellent reference for neurologists, emergency room physicians, internists, neurology residents, emergency medicine residents, and internal medicine residents.

Public Health Nursing in the Philippines CRC Press

Mitochondrial Disorders in Neurology provides an overview of mitochondrial diseases. This book discusses the effects of mitochondrial dysfunction based on the relevant biochemistry and molecular genetics. The abnormal muscle and mitochondrial morphology in a variety of clinical presentations from isolated ophthalmoplegia to severe encephalopathy are also elaborated. This text likewise deliberates Leber's hereditary optic neuropathy, neurodegenerative disorders, and respiratory chain defects. Other topics covered include mitochondrial DNA and the genetics of mitochondrial disease; cytochrome ox ...

Conversion of Petroleum Humana

Individual Participant Data Meta-Analysis: A Handbook for

Healthcare Research provides a comprehensive introduction to the fundamental principles and methods that healthcare researchers need when considering, conducting or using individual participant data (IPD) meta-analysis projects. Written and edited by researchers with substantial experience in the field, the book details key concepts and practical guidance for each stage of an IPD meta-analysis project, alongside illustrated examples and summary learning points. Split into five parts, the book chapters take the reader through the journey from initiating and planning IPD projects to obtaining, checking, and meta-analysing IPD, and appraising and reporting findings. The book initially focuses on the synthesis of IPD from randomised trials to evaluate treatment effects, including the evaluation of participant-level effect modifiers (treatment-covariate interactions). Detailed extension is then made to specialist topics such as diagnostic test accuracy, prognostic factors, risk prediction models, and advanced statistical topics such as multivariate and network meta-analysis, power calculations, and missing data. Intended for a broad audience, the book will enable the reader to: Understand the advantages of the IPD approach and decide when it is needed over a conventional systematic review Recognise the scope, resources and challenges of IPD meta-analysis projects Appreciate the importance of a multi-disciplinary project team and close collaboration with the original study investigators Understand how to obtain, check, manage and harmonise IPD from multiple studies Examine risk of bias (quality) of IPD and minimise potential biases throughout the project Understand fundamental statistical methods for IPD meta-analysis, including two-stage and one-stage approaches (and their differences), and statistical software to implement them Clearly report and disseminate IPD meta-analyses to inform policy, practice and future research Critically appraise existing IPD meta-analysis projects Address specialist topics such as effect modification, multiple correlated outcomes, multiple treatment comparisons, non-linear relationships, test accuracy at multiple thresholds, multiple imputation, and developing and validating clinical prediction models Detailed examples and case studies are provided throughout.

Individual Participant Data Meta-Analysis Elsevier Health Sciences
The branch of medicine that deals with the disorders of the nervous system is referred to as neurology. It focuses on the

diseases of central and peripheral nervous systems as well as their coverings and blood vessels. The most common symptoms of these disorders occur due to structural, electrical and biochemical abnormalities in the brain. Such disorders can result in paralysis, muscle weakness, seizures, confusion and loss of sensation. The examination of nervous system disorders is based on the physical examination. It analyzes the mental health and functioning of the cranial nerves, sensation, reflexes and strength. This book contains some path-breaking studies in the field of neurology. Some of the diverse topics covered in this book address the varied disorders that fall under this category. It will serve as a valuable source of reference for graduate and post graduate students.

Evaluation and Management of Autonomic Disorders

Springer Nature

Patients with degenerative neurological disorders are among the most handicapped patients in medicine. Many of these diseases are incurable. Expert palliative care is the duty of every neurologist: however, to date, this has not been a standard feature of neurological practice or training. This book helps define a new field, namely palliative care in neurology. It brings together all necessary information for neurologists caring for a patient with advance disease. Palliative care is an approach to the management of patients with life-threatening illness that attempts to enhance comfort, relieve psychosocial and spiritual distress, assure respect for decision making, provide support for the family, and prepare the patient and family for the end of life. This unique book covers each of the many dimensions of palliative care as they relate to patients with advanced neurological disorders. Basic principles of palliative care and specific ethical issues (such as euthanasia, food and hydration and advance directives) are covered. The needs of populations with specific neurological disorders are described and the management of symptoms that are common to all is explored in detail. Each chapter introduces its topic using a case report which may be used directly for teaching purposes. The authors have put together an invaluable resource, which lays the foundation for further research in the field.

Eye Movement Disorders CRC Press

Developmental Neurology

Drug Induced Movement Disorders Springer Science & Business

Media

"Eagleman renders the secrets of the brain's adaptability into a truly compelling page-turner." —Khaled Hosseini, author of *The Kite Runner* "Livewired reads wonderfully like what a book would be if it were written by Oliver Sacks and William Gibson, sitting on Carl Sagan's front lawn." —The Wall Street Journal What does drug withdrawal have in common with a broken heart? Why is the enemy of memory not time but other memories? How can a blind person learn to see with her tongue, or a deaf person learn to hear with his skin? Why did many people in the 1980s mistakenly perceive book pages to be slightly red in color? Why is the world's best archer armless? Might we someday control a robot with our thoughts, just as we do our fingers and toes? Why do we dream at night, and what does that have to do with the rotation of the Earth? The answers to these questions are right behind our eyes. The greatest technology we have ever discovered on our planet is the three-pound organ carried in the vault of the skull. This book is not simply about what the brain is; it is about what it does. The magic of the brain is not found in the parts it's made of but in the way those parts unceasingly reweave themselves in an electric, living fabric. In *Livewired*, you will surf the leading edge of neuroscience atop the anecdotes and metaphors that have made David Eagleman one of the best scientific translators of our generation. Covering decades of research to the present day, *Livewired* also presents new discoveries from Eagleman's own laboratory, from synesthesia to dreaming to wearable neurotech devices that revolutionize how we think about the senses.

Sports Neurology Elsevier

This case-based text provides treatment approaches to common and uncommon movement disorders. The first two parts of the book are devoted to the wide spectrum of motor and non-motor problems encountered in caring for people with Parkinson's disease, as well as Parkinsonian syndromes. Next are parts with chapters addressing essential and other tremor disorders followed by management of the various dystonic syndromes and other hyperkinetic disorders including chorea, tics, and myoclonus. Other disorders covered are drug-induced movement disorders, psychogenic movement disorders, Wilson's disease, hemifacial spasm and more. Authored by experts globally, this practical guide will help physicians, other healthcare professionals and trainees care for patients with a wide spectrum of movement

disorder related problems.

The Dementias 2 Emerald Group Publishing

Autoimmune Neurology presents the latest information on autoimmune neurologic disease, the immune response to the body where organs run wild, causing the immune system to attack itself. Autoimmunity is a main element in numerous nervous system diseases and can target any structure within the central or peripheral nervous system. Over the past 20 years, significant advances in our understanding of the pathophysiology of autoimmune disorders, including the use of biomarkers has led to new diagnosis and treatment options. Neurologic conditions associated with autoimmune reactions include dementia, neuromuscular disease, epilepsy, sleep disorders, diabetes, and other common neurologic disorders and disease. This current tutorial-reference will be a must-have title for clinical neurologists, research neurologists, neuroscientists, and any medical professional working with autoimmune disease and disorders. Includes comprehensive coverage of autoimmune neurology Details the latest techniques for the study, diagnosis, and treatment of diseases and disorders, including dementia, neuromuscular disease, epilepsy, and sleep disorders Presents a focused reference for clinical practitioners and the clinical neurology and neurology research communities

Disability and Community American Medical Publishers

Examines an array of issues related to disability and community. This title also examines a range of social institutions and practices such as education, employment, and cultural venues and the extent to which and how they include people with disabilities in the workings of these institutions.

Infectious Diseases of the Central Nervous System Springer

The contents of this volume are based upon the proceedings of a Symposium entitled "Infectious Diseases of the Central Nervous System" held in Phoenix, Arizona, and sponsored by the Barrow Neurological Institute and Foundation during its Ninth Annual Symposium. The purpose of the Symposium was to bring together knowledgeable experts in this field to review information that is available and to enhance our knowledge of new developments in the field of infectious diseases in the central nervous system. Because the subject could not be covered in its entirety by this volume, we have placed particular emphasis on recent developments and new information. The volume includes a remarkably fresh and interesting discussion of viral diseases as they affect the nervous system, including conventional and unconventional virus agents, and in addition, discussions of pathophysiology and epidemiology and postinfectious diseases of the nervous system. A similar approach is taken to the treatment of bacterial infection. Discussions of pathophysiology are intertwined with discussions of diagnostic techniques, prevention techniques and treatment of bacterial infections. Additional surgical problems are discussed regarding prevention and management of perioperative infection and brain abscess. Special consideration was given to coccidioidomycosis which is prevalent in the western states; also, there is a discussion of parasitic infections. This volume will be of interest to neurologists and neurosurgeons and any physician dealing with infectious disease. RICHARD A. THOMPSON, M.D. JOHN R. GREEN, M.D.
Sensory Neuropathies Springer Nature
Dr. David Schlossberg presents his fifth volume in the series

Clinical Topics in Infectious Disease, Infections of the Nervous System. This edited monograph brings together the leading authorities in infectious disease, neurology, and radiology to review the diagnosis and treatment of all major neurological infections. Topics covered include meningitis; acute CNS inflammation; infections of CNS shunts; brain and spinal epidural abscesses; the cerebellum and CNS infection; post-infection complications and syndromes; acute viral encephalitis; neurodegenerative peripheral nerve diseases; myelitis; CNS tuberculosis; cryptococcal, fungal, and parasitic infections; neurosyphilis, AIDS; Lyme disease; diagnostic imaging of CNS infection and inflammation; and evaluation of spinal fluid.

Migraine and Other Headache Disorders Vintage

In its different presentations, headache is one of the most common symptoms seen by family practitioners. The difficulty is in diagnosing the cause of the headache so that the appropriate treatment is provided, or if referral to a specialist is the recommended course of action. The ABC of Headache helps with this dilemma and guides the healthcare professional to look for the possible causes of presenting symptoms. Based on real case histories, each chapter guides the reader from symptoms through to diagnosis and management. This new ABC is a highly illustrated, informative, and practical source of knowledge. With links to further information and resources, it is a valuable text for healthcare professionals at all levels of practice and training.
Developmental Neurology Case Studies in Neurology
This guide delivers problem-based scenarios in neuropalliative care; improving quality of life for patients with neurologic diseases.