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KEY=OF - DARIEN GAIGE

The Mechanism and Management of Headache

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Mechanism and Management of Headache

Butterworth-Heinemann For this sixth edition of Mechanism and Management of Headache, Professor Lance has been joined by Professor Peter Goadsby to present a practical account of the latest advances in research into the clinical aspects, pathophysiology and treatment of headache. The text has been completely revised, and provides a very accessible guide to the management of headache problems in practice as well as insights acquired from functional MRI, PET scanning and new work on the neurotransmitters involved in the production of headache.

The Mechanism and Management of Headache [by] James W. Lance

Mechanism and Management of Headache

Butterworth-Heinemann A comprehensive reference for any medical practitioner dealing with headache patients. Explains such aspects as taking a medical history, diagnosis and physical examination, details of each type of headache organized according to the International Headache Society classification, pathophysiology, and new medications. Draws from empirical studies, clinical experience, insights acquired from functional magnetic-resonance imaging and positron-emission tomography scanning, and new research on the neurotransmitters involved in producing headaches. First published in 1969, and most recently in 1993; Goadsby (neurology, U. College London) joins Lance (neurology, U. of New South Wales) for this edition. Annotation copyrighted by Book News, Inc., Portland, OR

Mechanism and management of headache

Headache and Migraine Biology and Management

Academic Press There are two crucial issues in the treatment and management of headache patients: More than 50% of individuals experiencing headache have only been treated symptomatically, with no appropriate diagnosis established; and history and neurologic examination are essential to establishing a diagnosis, and thus selecting appropriate therapy. Headache and Migraine Biology and Management is a practical text that addresses these issues, featuring contributions from expert clinical authors. The book covers in detail topics including chronic and episodic migraine, post-traumatic headache, sinus headache, cluster headache, tension headache, and others. Chapters are also dedicated to treatment subjects, including psychiatric and psychological approaches, medication overuse, inpatient treatment, and pediatric issues. This book is an ideal resource for researchers and clinicians, uniting practical discussion of headache biology, current ideas on etiology, future research, and genetic significance and breakthroughs. This resource is useful to those who want to understand headache biology, treat and manage symptoms, and for those performing research in the headache field. A practical discussion of headache biology, current ideas on etiology, future research, and genetic significance and breakthroughs Features chapters from leading physicians and researchers in headache medicine Full-color text that includes both an overview of multiple disciplines and discusses the measures that can be used to treat headaches

Magnesium in the Central Nervous System

University of Adelaide Press The brain is the most complex organ in our body. Indeed, it is perhaps the most complex structure we have ever encountered in nature. Both structurally and functionally, there are many peculiarities that differentiate the brain from all other organs. The brain is our connection to the world around us and by governing nervous system and higher function, any disturbance induces severe neurological and psychiatric disorders that can have a devastating effect on quality of life. Our understanding of the physiology and biochemistry of the brain has improved dramatically in the last two decades. In particular, the critical role of cations, including magnesium, has become evident, even if incompletely understood at a mechanistic level. The exact role and regulation of magnesium, in particular, remains elusive, largely because intracellular levels are so difficult to routinely quantify. Nonetheless, the importance of magnesium to normal central nervous system activity is self-evident given the complicated homeostatic mechanisms that maintain the concentration of this cation within strict limits essential for normal physiology and metabolism. There is also considerable accumulating evidence to suggest alterations to some brain functions in both normal and pathological conditions may be linked to alterations in local magnesium concentration. This book, containing chapters written by some of the foremost experts in the field of magnesium research, brings together the latest in experimental and clinical magnesium research as it relates to the central nervous system. It offers a complete and updated view of magnesiums involvement in central nervous system function and in so doing, brings together two main pillars of contemporary neuroscience research, namely providing an explanation for the molecular mechanisms involved in brain function, and emphasizing the connections between the molecular changes and behavior. It is the untiring efforts of those magnesium researchers who have dedicated their lives to unraveling the mysteries of magnesiums role in biological systems that has inspired the collation of this volume of work.

Drug-Induced Headache

Springer Science & Business Media M. WILKINSON Patients with frequent or daily headaches pose a very difficult problem for the physician who has to treat them, particularly as many patients think that there should be a medicine or medicines which give them instant relief. In the search for the compound which would meet this very natural desire, many drugs have been manufactured and the temptation for the physician is either to increase the dose of a drug which seems to be, at any rate, partially effective, or to add one or more drugs to those which the patient is already taking. Although there have been some references to the dangers of overdosage of drugs for migraine in the past, it was not until relatively recently that it was recognized that drugs given for the relief of headache, if taken injudiciously, may themselves cause headache. The first drugs to be implicated in this way were ergotamine and phenazone. In the case of ergotamine tartrate, the dangers of ergotism were well known as this was a disorder which had been known and written about for many years. In the treatment of headache, fully blown ergotism is rare and in recent years has usually been due to self-medication in doses much greater than those prescribed although there are a few recorded cases where toxic amounts have been given.

Pathophysiology of Headaches

From Molecule to Man

Springer This book provides a detailed overview of the current state of knowledge regarding the pathophysiology of both primary headaches – migraine, tension-type headache (TTH), and cluster headache – and the very important and frequent type of secondary headache, medication overuse headache (MOH). After an introductory chapter describing relevant neuroanatomy and vascular anatomy, the evidence gained from animal models regarding the pathophysiology of migraine and the other primary headaches is reviewed. Knowledge of the genetic component in the different types of headache is then examined with reference to recent evidence, for example regarding the implication of the trigeminovascular system and cortical spreading depression in migraine. Detailed information is provided on insights into primary headaches from imaging studies, including functional magnetic resonance imaging and positron emission tomography and on their neurophysiology and biochemistry. A further series of important chapters describe present knowledge of the pathophysiology of each specific type of headache and consider future directions. Written by acknowledged experts in their fields from Europe and the United States, clinicians and students will find Pathophysiology of Headaches to be an excellent source of up-to-date information on why patients experience headaches. In addition, it will be of value for pain researchers investigating the underlying mechanisms of headache.

Cluster Headache

Springer Science & Business Media This book constitutes a compilation and integration of the latest advances in the management of cluster headaches. It encompasses the work of nine experts in the field of headache in the U.S. and presents a thorough and comprehensive view of the subject. Most of the participants at the symposium have spent years studying cluster headache and its variants. They present a variety of conceptions in a comprehensive manner. It is believed that the generalist, neurologist, or other medical specialist involved in the treatment of this difficult syndrome will derive diagnostic and therapeutic insight into its management. The patients seeking help and understanding of their condition will be the ultimate beneficiaries of its information. SEYMOUR DIAMOND, M.D. March, 1984 Preface The past decade has witnessed a surge of interest in the field of headache and related disorders. Even though the pathophysiology and pathogenesis of primary headache disorders are still poorly understood, recent clinical and therapeutic observations have greatly contributed to improvement of patient care in the headache field. Headache clinics specializing in the diagnosis and comprehensive management of headaches, now available in most major cities, have also helped in the progress of patient care and research.

Case Studies in Pain Management

Cambridge University Press Edited by internationally recognized pain experts, this book offers 73 clinically relevant cases, accompanied by discussion in a question-and-answer format.

Multidisciplinary Management of Migraine

Jones & Bartlett Publishers The first textbook that focused on the multidisciplinary treatment of migraine including pharmacological and non-pharmacological approaches. This comprehensive text discusses epidemiology, pathophysiology, diagnosis, and management of patients with migraine headache integrating clinical experience and expertise with current evidence-based best practices. The authors are worldwide experts recognized in migraine and headache with experience in academic, research, and practice settings. This book reviews the options for medical management of patients with migraine by way of: pharmacological interventions; musculoskeletal interventions including muscle and joint-centered interventions, manual therapy, and dry needling; and complementary and alternative medicine techniques including naturopathy, acupuncture, and placebo. With a multimodal and multidisciplinary approach, this comprehensive resource provides a variety of therapeutic tools for students and practitioners to provide excellent care and medical management of patients with migraine headache.

The Mechanism and Management of Headache

Common Pitfalls in the Evaluation and Management of Headache

Case-Based Learning

Cambridge University Press Discussing real-world cases, this practical guide highlights areas of diagnostic uncertainty and shows common pitfalls in headache diagnosis and treatment.

Peripheral Interventional Management in Headache

Springer This book discusses interventional treatment options on intractable (drug resistant) headache patients and extended headache attacks and extensively reviews the reasons behind treatment failure in intractable headaches, offering potential solutions based on clinical black holes of headache outpatient practice. The most appropriate interventions for certain types of headache such as chronic migraine and medication-overuse headaches, are discussed among others. The book provides practical advice on properly administering the interventional treatments either as a bridge treatments or prophylaxis options. The expected complications of the treatments, and strategies to minimize them are also discussed. Approaches in special patient populations such as pediatric or pregnancy cases and other non-standard cases are also extensively discussed.

Advanced Headache Therapy

Outpatient Strategies

Springer This cutting-edge book will cover various aspects of headache management, with a focus on difficult patients. Practical, step-by-step advice for treating challenging headaches, including migraine, refractory and cluster headaches, will be provided in detail along with how to approach patients of different ages and those with psychological disorders. Unique and complex case studies and complete explanations to the vast array of medications will also be featured. Authored by one of the leading experts on refractory headaches, Advanced Headache Management will be an invaluable guide for the resident or clinician and an easy-to-read resource for many patients.

Mechanism and Management of Headache

Butterworth-Heinemann Based on the current classification of the International Headache Society, this revised and updated 7th Edition provides up-to-date, practical guidance on the very latest advances in research into the pathophysiology, clinical aspects, and treatment of all types of headache – including migraine, tension-type headache, cluster headache, and chronic daily headache. It provides an optimal blend of clinical know-how and relevant basic science, written in an easy-to-read, engaging style. Features a chapter organization based on the IHS classification of headache, making information easy to find. Delivers balanced coverage of the most recent scientific discoveries as well as tried and true clinical observations. Includes updated discussions on the pathophysiology and treatment of migraine, plus a new chapter on Trigeminal Autonomic Cephalgias (cluster headaches).

Delivers a completely revised chapter on tension-type headache that reflects recent changes in clinical practice. Provides revisions based on updated guidelines presented at the International Headache Society, Congress of Headache, September 2003.

Symposium on Headache: Its Mechanism, Diagnosis, and Management

Presented at the Fourteenth Annual Meeting of the American Academy of Neurology, New York City, April 28, 1962

Pituitary Adenylate Cyclase-Activating Polypeptide

Springer Science & Business Media Pituitary Adenylate Cyclase-Activating Polypeptide is the first volume to be written on the neuropeptide PACAP. It covers all domains of PACAP from molecular and cellular aspects to physiological activities and promises for new therapeutic strategies. Pituitary Adenylate Cyclase-Activating Polypeptide is the twentieth volume published in the Endocrine Updates book series under the Series Editorship of Shlomo Melmed, MD.

Tension-Type and Cervicogenic Headache

Pathophysiology, Diagnosis, and Management

Jones & Bartlett Learning The first textbook covering physical therapy as well as physical medicine aspects of these two highly prevalent headache disorders from both a clinical and evidence-based perspective. Written and contributed by international experts, Tension-Type and Cervicogenic Headache: Pathophysiology, Diagnosis, and Management provides the best current evidence on the pathophysiology, diagnosis, and management of patients with the highly prevalent tension type and cervicogenic headache, integrating the most recent clinical research data with basic science knowledge. It covers both physical therapy and phy

6th International Headache Seminary

Focus on Headaches ; New Frontiers in Mechanism and Management ; Stresa (VB), May 29-30, 2009 ; Proceedings

Brain Neurotrauma

Molecular, Neuropsychological, and Rehabilitation Aspects

CRC Press Every year, an estimated 1.7 million Americans sustain brain injury. Long-term disabilities impact nearly half of moderate brain injury survivors and nearly 50,000 of these cases result in death. Brain Neurotrauma: Molecular, Neuropsychological, and Rehabilitation Aspects provides a comprehensive and up-to-date account on the latest developments in the area of neurotrauma, including brain injury pathophysiology, biomarker research, experimental models of CNS injury, diagnostic methods, and neurotherapeutic interventions as well as neurorehabilitation strategies in the field of neurotrauma research. The book includes several sections on neurotrauma mechanisms, biomarker discovery, neurocognitive/neurobehavioral deficits, and neurorehabilitation and treatment approaches. It also contains a section devoted to models of mild CNS injury, including blast and sport-related injuries. Over the last decade, the field of neurotrauma has witnessed significant advances, especially at the molecular, cellular, and behavioral levels. This progress is largely due to the introduction of novel techniques, as well as the development of new animal models of central nervous system (CNS) injury. This book, with its diverse coherent content, gives you insight into the diverse and heterogeneous aspects of CNS pathology and/or rehabilitation needs.

ABC of Headache

John Wiley & Sons 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.

Current Perspectives on Less-known Aspects of Headache

BoD - Books on Demand Headache, as a main neurological problem in everyday life, still takes place as a contributor on top of the list of many partially solved neurological conditions. Not only primary headaches but secondary headaches are still clinical concerns of diagnosis, differential diagnosis, and therapy. This book is quite different from classical headache books. First of all, it does not contain the classical schema of a classical headache textbook. Most of the chapters composing this book contain many answers for many unanswered questions about headache in general, for example, "Is headache a genetic condition?", "What do smartphones do to our brains? Do they cause headaches?", and "Does botulinum toxin really improve chronic migraine?". We hope this book will be an interesting read and perhaps a guide in some new aspects of headache and help understand "some interesting headache issues" while stressing some of the less known mentioned above.

Chronic Headache

A Comprehensive Guide to Evaluation and Management

Springer This comprehensive, practical title invites all clinicians to take a fresh look at the evaluation and management of chronic daily headache (CDH). Developed by a distinguished international panel of experts, the book examines key social and economic issues around CDH and clarifies the diagnosis of CDH disorders, providing an understanding of the underlying biological substrates, offering guidance on the use of diagnostic testing and additional consultations, and outlining treatment strategies with the greatest potential to alleviate the burden of these patients and to provide the highest quality of care. The book fully examines the constellation of symptoms that constitute chronic daily headache, while also discussing the role of behavioral medicine and the important elements involved in taking a good history. The major forms and biology of chronic daily headache are covered, as is the role of diagnostic testing and treatment. The risk factors that lead patients to transform episodic primary headache disorders into the chronic form are examined. Invasive and neuromodulatory techniques are also discussed. A section on the classification of these disorders rounds out this

important contribution to the literature. *Chronic Headache – A Comprehensive Guide to Evaluation and Management* will be of great interest to neurologists, primary care physicians, nurse practitioners, physician assistants, medical students, and other clinicians with an interest in chronic daily headache.

Fast Facts: Headaches

Karger Medical and Scientific Publishers The management of people suffering with headaches forms a substantial part of the workload of the family physician and the practising neurologist. While some patients can perform normally using self-medication, headache can be a symptom of a potentially serious illness and disabling headaches, either continuous or as intermittent attacks, require careful assessment and treatment. 'Fast Facts: Headaches' equips the primary care physician with the knowledge required to accurately investigate, assess and treat (or refer) the patient presenting with disabling primary headache. • Enables physicians to distinguish between the benign and potentially life-threatening condition • An expert guide to differential diagnosis • Reviews current processes of assessment, summarises current thinking on pathogenesis and covers management of common forms of disabling headache • Key points are summarised at each chapter-end and clear, simple diagrams and tables support clinical information Contents: • Differential diagnosis • Epidemiology • Clinical features of migraine and tension headaches • Mechanisms of migraine • Precipitating causes • Acute treatment • Prophylactic treatment • Chronic daily headache • Cluster headache; Post-traumatic headache • Future trends

Pain

A Review Guide

Springer This concise but comprehensive guide covers common procedures in pain management necessary for daily practice, and includes topics on international pain medicine curricula, for example, the American Board of Anesthesiology, World Institute of Pain/Fellow of Interventional Pain Practice, and American Board of Pain Medicine. Treatments for pain are discussed, including nerve blocks (head, neck, back, pelvis and lower extremity). Chapters have a consistent format including high yield points for exams, and questions in the form of case studies. *Pain: A Review Guide* is aimed at trainees in pain medicine all over the world. This book will also be beneficial to all practitioners who practice pain.

Problem-Based Pain Management

Cambridge University Press Pain management is an essential part of clinical practice for all healthcare providers from trainees, physician assistants and nurse practitioners through to practising physicians. *Problem-Based Pain Management* is a collaboration between experts in anesthesiology, geriatric medicine, neurology, psychiatry and rehabilitation which presents a multidisciplinary management strategy. Over 60 chapters follow a standard, easy-to-read, quick access format on: clinical presentation, signs and symptoms, lab tests, imaging studies, differential diagnosis, pharmacotherapy, non-pharmacologic approach, interventional procedure, follow-up and prognosis. The broad spectrum of topics include headache, neck and back pain, bursitis, phantom limb pain, sickle cell disease and palliative care. Unlike other large, cumbersome texts currently available, this book serves as a quick, concise and pertinent reference in the diagnosis and management of common pain syndromes.

Helping You Successfully Manage Your Headache and Migraine

A Patient's Guide

Cambridge Scholars Publishing Authored by a consultant neurologist who sees about a thousand headache patients a year and with 20 years of experience, this book is designed to help headache and migraine sufferers who have heard such statements as, "There is nothing else we can do to help you," "I've tried all possible medications," or "This is just stress-related." Advising on what can be done to alleviate and even prevent symptoms, this book provides the reader with a better understanding of headaches and a guide to their self-management. There are over 150 types of headache, and, once the doctor knows what type they are dealing with, they are a long way towards treating it successfully.

Wolff's Headache and Other Head Pain

Oxford University Press, USA The 8th edition of *Wolff's Headache and Other Head Pain* remains the definitive reference text in the field. Knowledge and understanding of headache and its management have changed significantly in the twenty-first century. This new edition encompasses all of this new material, with all chapters updated and many new authors added.

Heal Your Headache

Workman Publishing Based on the breakthrough understanding that virtually all headaches are forms of migraine--because migraine is not a specific type of headache, but the built-in mechanism that causes headaches of all kinds, along with neck stiffness, sinus congestion, dizziness, and other problems--Dr. Buchholz's *Heal Your Headache* puts headache sufferers back in control of their lives with a simple, transforming program: Step 1: Avoid the "Quick Fix." Too often painkillers only make matters worse because of the crippling complication known as rebound. Step 2: Reduce Your Triggers. The crux of the program: a migraine diet that eliminates the foods that push headache sufferers over the top. Step 3: Raise Your Threshold. When diet and other lifestyle changes aren't enough, preventive medication can help stay the course. That's it: in three steps turn your headache problems around.

Migraine in Women

PMPH-USA Fifteen specialists serve as chapter authors, covering sex hormones and genetics, as well as the social, cultural, psychiatric, and psychological factors that contribute to headache disorders. Their approach is evidence-based, but where there are gaps in research, the authors provide advice based on expert consensus and clinical experience. Each chapter opens with a case report that synthesizes the chapter's treatment recommendations, as well as key points listing the chapter's contents. The main body of the chapter features an introductory overview, a closing summary, tables, and an extensive list of suggestive reading.

Headache

Cambridge University Press Headache is the most common presenting symptom in neurology and constitutes more than one-third of primary care consultations. Organized according to the presenting features of the headache (acute, episodic and chronic), this handbook provides diagnostic and treatment information for both common and uncommon causes of headache. Making maximum use of lists, bullet points, summary boxes and illustrations, it allows the reader fast access to essential information where it is needed most. Each topic is dealt with succinctly, using up-to-date knowledge and experience of the authors, all of whom are headache experts from leading clinical centers in the USA and Canada. Providing comprehensive and detailed coverage to satisfy the needs of the busy neurologist, residents in neurology, neurosurgery, psychiatry and other fields of internal medicine, this book will also be a valuable guide to practising clinicians who do not deal with headache on a regular basis.

Bonica's Management of Pain

Lippincott Williams & Wilkins Bonica's Management of Pain was the first major textbook written primarily to guide practitioners as a comprehensive clinical text in the field of pain medicine. We aim to build on Bonica's tradition to assemble an updated, comprehensive textbook for pain practitioners that is seen as the leading text in the field of pain medicine. Prior editions have been largely based on contributions from leading practitioners who described current practice; this revision will make every attempt to include concise summaries of the available evidence that guides current practice.

Jasper's Basic Mechanisms of the Epilepsies

Oxford University Press 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 structures 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.

Migraine

Emerging Innovations and Treatment Options

Springer Nature This book covers proper migraine diagnostic tools and treatment options. It addresses the complex nature of treating this pain condition and underscores the intricacies of diagnosis and management. Succinct yet thorough, the book opens with information on migraine diagnosis, symptomology, and pathophysiology. Subsequent chapters examine various current and emerging evidence-based treatment options including immune modulation, stem cell regenerative therapy, and new potential applications of therapeutics for use in pediatric migraine. Following this, the chapters discuss the processes of neuro-modulation, dietary modifications, and surgical treatment for chronic migraine disorders. The book concludes with a handy set of reference guides of commonly prescribed drugs and doses. Written by experts in the field, Migraine provides the headache or pain practitioner with a comprehensive yet quick reference that fills a current gap in the literature for treating migraines and emerging therapeutic options.

Migraine Headache Disease

Diagnostic and Management Strategies

Aspen Pub This presentation of up-to-date information on headache mechanism and detailed descriptions of clinical symptoms provides a strong foundation for improved understanding and clinical care of patients with headache.

Handbook of Headache

Practical Management

Springer Science & Business Media Headache disorders are among the most common disorders of the nervous system. They are pandemic and, in many cases, they are recurrent and can accompany the patient for the whole life. These disorders impose a substantial burden on headache sufferers, on their families and on society: the individual impact is measured by the frequency and severity of attacks, while the societal burden is measured in terms of loss of activity at work and school as well as of costs for the health system. As a matter of facts, headaches are ranked in the top ten, and maybe the top five, causes of disability worldwide: they are therefore extraordinarily common. Population-based studies have mostly focused on migraine, which, even if it is the most frequently studied headache disorder, is not the most common. Other types of headache, such as the more prevalent TTH and sub-types of the more disabling chronic daily headache, have so far received less attention and need to be better investigated. This book will provide a useful tool to a wide medical population, who is required specific skills to diagnose and manage these frequent and often disabling disorders. Furthermore, it could also represent a compendium for medical students who are usually introduced to this topic through multidisciplinary university programmes.

The Migraine Brain

Imaging Structure and Function

Oxford University Press 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.