

Scientific advances in headache research: an update on neurostimulation

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The pathophysiological understanding of migraine and other primary headaches has been substantially improved over the last 20 years. A milestone that paved the way for successful research was the development of the International Classification of Headache Disorders published by the International Headache Society in 1988. The classification facilitated a clear clinical diagnosis of headache disorders and allowed research efforts to be focused on clearly defined syndromes. Recent advances in the understanding of headache disorders have been driven by the availability of new research tools, such as advanced imaging techniques, genetic tools, pharmaceutical compounds and devices for electrical or magnetic stimulation. The latest scientific and clinical advances were presented at the recent European Headache and Migraine Trust International Congress (EHMTIC) in London (UK).

The European Headache and Migraine Trust International Congress (EHMTIC) was held from 20 to 23 September in London, UK. The scientific program of this biennial congress included several informative teaching courses on experimental techniques for migraine research as well as clinical management of migraine and other primary headaches. Tobias Kurth from Bordeaux University (Bordeaux, France) opened the congress with the MacDonald Critchley lecture on migraine genetics/epidemiology. The scientific core of the congress were multiple poster sessions covering basic laboratory and experimental clinical science on novel aspects of the pathophysiology of headache disorders, clinical aspects of headache care and recent advances in the acute and preventative treatment of migraine. Beside the poster sessions, lectures were given for the awarding of the Enrico Greppi Award and the Giuseppe Nappi Cluster Headache Award conferred to Sait Ashina (Beth Israel Medical Center, NY, USA) and Delphine Magis (University of Liège, Liège, Belgium) for their respective research contributions on depression and risk of transformation of episodic to chronic migraine, and central mechanisms of occipital nerve stimulation (ONS) in cluster headache. The Migraine Trust lecture was given by Karl

Messlinger (University of Erlangen–Nürnberg, Germany), who provided an extensive overview of the neurobiology of migraine. Finally, in the Jes Olesen EHF lecture Rigmor Jensen (Danish Headache Center, Copenhagen, Denmark) presented the recent advances and challenges in headache research.

Neurostimulation is of increasing interest for the treatment of primary headaches. Initial experiences with invasive methods, such as deep brain stimulation for drug-refractory cluster headache, have been effective but were hampered by severe side effects. Research efforts are now being focused on noninvasive or minimally invasive neurostimulation therapies that could be used in less disabled patients. A variety of neurostimulation devices and first data about their potential efficacy were presented at the conference and are reviewed here.

Noninvasive neurostimulation devices Transcranial magnetic stimulation

Transcranial magnetic stimulation (TMS) is an established method to modulate cortical excitability and has been used for several neurological purposes for many years. Holland *et al.* demonstrated in an *in vivo* model of migraine, that single-pulse TMS (sTMS) was able to inhibit

New Advances In Headache Research

Jonathan M. Borkum



New Advances In Headache Research:

Chronic Headaches Jonathan M. Borkum, 2007-02-13 This is the first new book in many years to provide a comprehensive review of the latest theory research and treatment of chronic headaches from a biopsychological perspective. It is designed to make the tools of assessment and therapy widely accessible while placing them in the context of how the disorders arise. The physiology and psychology of *Trigeminal Autonomic Cephalalgias—Advances in Research and Treatment: 2012 Edition*, 2012-12-26 Trigeminal Autonomic Cephalalgias Advances in Research and Treatment 2012 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Trigeminal Autonomic Cephalalgias in a concise format. The editors have built Trigeminal Autonomic Cephalalgias Advances in Research and Treatment 2012 Edition on the vast information databases of ScholarlyNews. You can expect the information about Trigeminal Autonomic Cephalalgias 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 Trigeminal Autonomic Cephalalgias Advances in Research and Treatment 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>. *Pathological Conditions: New Insights for the Healthcare Professional: 2013 Edition*, 2013-07-22 Pathological Conditions New Insights for the Healthcare Professional 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Diagnosis and Screening. The editors have built Pathological Conditions New Insights for the Healthcare Professional 2013 Edition on the vast information databases of ScholarlyNews. You can expect the information about Diagnosis and Screening 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 Pathological Conditions New Insights for the Healthcare Professional 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>. *Ophthalmology E-Book* Myron Yanoff, Jay S. Duker, 2013-11-06 Get the quick answers you need on every aspect of clinical ophthalmology and apply them in your day-to-day practice. The latest edition of Ophthalmology by Drs. Yanoff and Duker presents practical expert concise guidance on nearly every ophthalmic condition and procedure, equipping you to efficiently overcome whatever clinical challenges you may face. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle, nook, and other popular devices. Focus on the clinically actionable information you need thanks to a more streamlined format. Make optimal use of the

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The Headaches Jes Olesen, 2006 Established worldwide as the one definitive encyclopedic reference on headache The Headaches is now in its thoroughly revised updated Third Edition The foremost international authorities examine the mechanisms of over 100 types of headache and provide evidence based treatment recommendations including extensive tables of controlled clinical trials This edition presents the revised International Headache Society classification of headaches and explains how to use this new classification for accurate diagnosis Many headache entities are discussed for the first time such as chronic migraines primary headache attributed to sexual activity primary stabbing cough exertional and thunderclap headaches hypnic headaches and new daily persistent headaches A new section focuses on childhood headaches Chapters that focus on headaches in elderly patients and patients with psychiatric or medical diseases are also included

Critical Decisions in Headache Management Rose Giammarco, John Edmeads, David Dodick, 1998 Critical Decisions in Headache Management explains the clinical process of assessing and treating the headache patient in the office and hospital settings Covering adults and children acute and chronic sufferers and routine and challenging patients this extensive work features easy to follow decision trees that aid accurate diagnosis graphically demonstrating critical decision points clearly and effectively Comments are keyed to designated decision nodes to thoroughly explain a principle or give background support and selected references provide additional sources for information

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Handbook of Child Psychopathology Thomas H. Ollendick, Michel Hersen, 2013-11-11 In our first edition of the Handbook in 1983 we the origins and course s of maladaptive behavior whatever the causes whatever the age of on noted that child psychopathology should no longer be viewed as a downward extension of set whatever the transformations in behavioral adult psychopathology Rather we suggested expression and however complex the develop that children should be viewed as children not mental pattern may prove to be It strives to inte as miniature adults

and that a merger of the disciplines of clinical child psychology and developmental psychology must occur for this evolution to be fully realized In the second edition of the Handbook in 1989 we asserted that the synthesis of these two fields of inquiry was underpinned by the need to solicit contributors for this third edition

Neurological Disorders Thomas Brandt, 2003-01-03 This single volume reference covers the natural course and treatment and management of all neurological diseases affecting the brain spinal cord nerves and muscles This comprehensive text reference seeks to assist physicians with treatment by providing an easy to use compendium covering the treatment and management of all neurological diseases along with details on the natural course of these diseases Organized for ease of use and quick reference each chapter presents a neurological disorder or key symptoms and systematically discusses the clinical syndrome and differential diagnosis natural course principles of therapy and practical management of each Covers wide range of neurological conditions and potential treatments including the evidence for and against each treatment Describes the spontaneous course of neurological diseases along with discussion of the management of different stages and variants of a disorder Presents special situations and exceptional cases in which alternative therapies should be considered

Managing Your Migraine Susan L. Burks, 2013-03-07 Managing Your Migraine speaks to your needs as a migraine sufferer It confirms that you suffer from a genuine physical illness and that others share your frustration disappointments and anger Its goal is to move you beyond learning to live with it to a full understanding of its mechanisms symptoms and treatments This book proves that you can take charge of your illness and shows you how to do so safely effectively and with real confidence

The Abnormal Menstrual Cycle Margaret Rees, Sally Louise Hope, Veronica A. Ravnkar, 2005-08-12 Disorders of menstruation are among the most common problems encountered in women's health and include early delayed and irregular menstrual cycles painful menses and excessive menstrual bleeding and early menopause Their treatment presents a variety of complex challenges especially since some of the treatments used can themselves result in further menstrual and hormonal complications This text provides a comprehensive review of our current knowledge of the causes of these conditions their investigation and the treatment options available It has been designed as a practical reference for the doctor's office or clinic presenting the physician with a detailed account of how to assess the patient and then determine the most appropriate course of treatment which may extend beyond pharmacologic interventions to surgery Practice points conclude each section and summarize the most important clinical and management issues

Drug Treatment of Migraine and Other Headaches Hans-Christoph Diener, 2000 In many respects this is an outstanding book It provides an invaluable source of published evidence for the treatment of patients with headache

Drug Treatment of Migraine and Other Headaches H. -C. Diener, Julien Bogousslavsky, 2000-07 Drug therapy of migraine and other headaches underwent a dramatic change in the last 10 years This book is an overview of the drugs in the treatment

of acute headache attacks and their prophylaxis Each chapter is written by a top expert in most cases the principal investigator of large clinical trials and a review on the pharmacology of each substance is provided Treatment recommendations rely on evidence based data and are put into a clinical context Chapters cover all the new triptans but also more traditional drugs such as analgesics opioids and ergots The list of authors is the who s who of modern headache research and practice Physicians treating patients with headaches and pharmacologists interested in headache drugs will benefit most from this up to date critical overview

Ophthalmology Myron Yanoff, Jay S. Duker, 2008-12-16 Based on valuable customer feedback Doctors Yanoff and Duker have streamlined their best selling reference Ophthalmology to zero in on just the clinical answers you need in day to day practice This new edition presents unparalleled guidance on nearly every ophthalmic condition and procedure including the latest advances in the field such as optical coherence tomography OCT the ocular surface new pharmacologic therapies updated oculoplastic surgical techniques the latest in refractive surgery and so much more Discusses every aspect of clinical ophthalmology for complete coverage in a single volume Uses 2250 full color illustrations that depict a wide range of ophthalmic techniques and disorders Presents a more streamlined format to the printed text to help you focus on the clinically actionable information you need everyday Discusses hot topics such OCT the ocular surface glaucoma testing refractive surgery advances in molecular biology and genetics neuro ophthalmology and retinal studies to keep you absolutely current Provides enhanced coverage of cataracts including advances in phacoemulsification and surgical complications Helps you make optimal use of the newest drug therapies including Anti VEGF treatment for wet ARMD and bevacizumab treatment for complications of diabetes Offers authoritative guidance on the newest treatment options for cornea disorders including evolving ocular surface reconstruction techniques and new cornea procedures such as DSEK Incorporates new chapters on increasingly popular aesthetic oculoplastic surgical techniques to help you meet today s demands

Migraine David Dodick FRCP (C), FACP, MD, Stephen Silberstein MD, FACP, FAHS, FAAN, 2016-03-16 Migraine is a complex neurological disorder that is characterized by a complex neurobiology clinical features that may overlap with over 300 causes of headache and an association with major medical illnesses and comorbid diseases This book draws upon the authors vast clinical experience and exhaustive knowledge of the science of migraine and the practice of headache medicine and provides this knowledge in a comprehensive yet digestible format While migraine is often a subject in other textbooks on headache it is the sole focus of this volume The authors provide an up to date overview of the evidence base and combine this with their experience and expertise to help practitioners make informed treatment decisions This book also provides a glimpse into the future describing new treatment modalities including neurostimulation technologies and biologics that are emerging as potentially valuable treatment options The authors also deal extensively with the unique and complex management of migraine in women throughout the reproductive life cycle For those looking for a practical insightful and in depth review on the subject of migraine there is no other option ECAB

Reviews in Neurology 2013 - E-Book Shyamal Kumar Das,Gagandeep Singh,2014-12-11 ECAB Reviews in Neurology 2013 E Book **Born Together—Reared Apart** Nancy L. Segal,2012-06-18 The Minnesota Study of Twins Reared Apart startled

scientists by demonstrating that twins reared apart are as alike across a number of personality traits and other measures as those raised together suggesting that genetic influence is pervasive Segal offers an overview of the study s scientific contributions and effect on public consciousness Multidisciplinary Management of Migraine César

Fernández-de-las-Peñas,Leon Chaitow,Jean Schoenen,2012-02-03 Another selection of the Jones and Bartlett Series Contemporary Issues in Physical Therapy and Rehabilitation Medicine Multidisciplinary Management of Migraine Pharmacological Manual and Other Therapies is the first textbook 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 Multidisciplinary Management of Migraine Pharmacological Manual and Other Therapies 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 Key Topics Theories of migraine pathophysiology Sensitization mechanisms Migraine triggers Examination of the cervical and thoracic spinal joints Pharmacological interventions Musculoskeletal interventions Alternative medicine techniques This textbook is perfect for completing a headache library combined with tension type and cervicogenic headache Browse additional titles in the Jones Bartlett Learning Series Contemporary Issues in Physical Therapy and Rehabilitation Medicine at [http go.jblearning.com](http://go.jblearning.com) PTseries **Handbook of Emergency Neurology** Thomas P. Campbell,Kevin M. Kelly,2023-08-17 Patients with

neurologic symptoms are frequently seen in the emergency department and require rapid and thorough evaluation Appropriate assessment with tailored history taking localization of the neurological problem differential diagnosis focused testing and urgent treatment when indicated are essential to prevent patient morbidity Neurological examination and testing of patients are covered in depth along with common neurological presentations using a symptom based approach such as coma dizziness and gait disturbance Specific neurological disorders are also explored including traumatic brain injury ischemic stroke and transient ischemic attack and neurotoxicology Chapters follow a basic outline including an introduction and a pearls and pitfalls section providing a succinct overview and key takeaway points for the busy clinician This well organized handbook will serve as a concise valued reference for the clinician to use in assisting the evaluation of the most

common neurology related emergency department visits **Analgesia** Christoph Stein, 2007-01-26 This book presents the development and experimental validation of the structural test strategy called Oscillation Based Test OBT in short The results presented here assert not only from a theoretical point of view but also based on a wide experimental support that OBT is an efficient defect oriented test solution complementing the existing functional test techniques for mixed signal circuits

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