

EFNS guidelines on neuropathic pain assessment: revised 2009

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biopsy

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Background and purpose: We have revised the previous EFNS guidelines on neuro-
pathic pain (NP) assessment, which aimed to provide recommendations for the
diagnostic process, screening tools and questionnaires, quantitative sensory testing
(QST), micro-neurography, pain-related reflexes and evoked potentials, functional
neuroimaging and skin biopsy.

Methods: We have checked and rated the literature published in the period 2004–
2009, according to the EFNS method of classification for diagnostic procedures.

Results: Most of the previous recommendations were reinforced by the new studies.
The main revisions relate to: (i) the new definition of NP and a diagnostic grading
system; (ii) several new validated clinical screening tools that identify NP components,
and questionnaires which assess the different types of NP; (iii) recent high-quality
studies on laser-evoked potentials (LEPs) and skin biopsy.

Conclusions: History and bedside examination are still fundamental to a correct
diagnosis, whilst screening tools and questionnaires are useful in indicating probable
NP. QST is also useful for indicating the latter, and to assess provoked pains and
treatment response. Amongst laboratory tests, LEPs are the best tool for assessing Aδ
pathway dysfunction, and skin biopsy for assessing neuropathies with distal loss of
unmyelinated nerve fibres.

Background and objectives

Neuropathic pain (NP) is a major symptom which may be intractable in common neurological disorders such as neuropathy, spinal cord injury, multiple sclerosis and stroke. Pain is a complex sensation strongly modulated by cognitive influences, and understanding the underlying pathophysiological mechanisms in patients remains a challenge for pain specialists. The EFNS launched a task force that published guidelines for the assessment of NP to address an unmet clinical need [1]. The aim of this new task force was to revise the previous guidelines, in accord with evidence-based studies published thereafter. We have now performed so,

drawing in part on similar work in this field by the NP special interest group (NeuPSIG) of the International Association for the Study of Pain (IASP).

Search methods

Search methods adhered to those used in previous guidelines [1] and complied with EFNS recommenda-
tions [2]. Briefly, after an initial search through the
central database in the Cochrane Library, Medline, and
other electronic databases (2004 to date), two task
force participants were assigned to check the sorted
material per method of assessment, i.e. screening tools
and questionnaires, quantitative sensory testing (QST),
micro-neurography, reflexes and evoked potentials,
functional neuroimaging and skin biopsy. Pertinent
studies were rated for evidence level according to EFNS
rules [2] whenever applicable; in some instances, such as

Correspondence: Prof Giorgio Cruccu, Dep. Scienze Neurologiche,
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Revised Report Of Efns Migraine 2009

**Michel Ferrari, Andrew Charles, Joost
Haan, David Dodick, Fumihiko Sakai**

Revised Report Of Efn's Migraine 2009:

The Neuropsychiatry of Headache Mark W. Green, Philip R. Muskin, 2013-03-07 Whilst the vast majority of headaches are minor ailments some patients develop chronic symptoms that have psychiatric dimensions These symptoms can be immensely challenging to manage and can have a serious impact on the patient's quality of life The relationship between headache and psychiatric disease is often rationalized as cause and effect however the interplay between the two is complex Management of each of the co-morbid disorders affects the other one in positive and or negative ways The Neuropsychiatry of Headache details the current concepts of various headache conditions and the psychiatric syndromes topics covered include migraine mood disorders medication overuse and personality disorders Headache specialists neurologists psychiatrists neuropsychiatrists and neuropsychologists will find this an invaluable resource for understanding and co-managing these conditions *Pregnancy and Neurologic Illness, An Issue of Neurologic Clinics* Autumn Klein, 2012-08-28 Neurologic illness in pregnant women requires special consideration on the part of the neurologist These disorders can impact pregnancy in distinct ways and their therapies must often be modified to protect the health of the mother and fetus This issue of Neurologic Clinics features 11 articles on the interaction of the main neurologic disorders and pregnancy

Update on Emerging Treatments for Migraine, 2020-09-05 Update on Emerging Treatments for Migraine Volume 255 the latest release in the Progress in Brain Research series highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Progress in Brain Research series Updated release includes the latest information on Update on Emerging Treatments for Migraine [Migraine Pain Management](#) Stephen B. Shrewsbury, 2024-10-24 Migraine Management Current Pharmacological and Non pharmacological Options is a comprehensive guide to established recent and ongoing pharmaceuticals and device development projects The book provides detailed information on the historical developments of migraine pain management druggable targets drugs action mechanisms drugs for acute treatment and preventive care of patients administration routes and alternative treatments This is the ideal reference for academic researchers interested in anti migraine pharmacology It will also be a perfect reference for physicians and care professionals involved in the well being of migraine patients Offers a comprehensive overview of pharmacological and alternative migraine pain treatment options Covers the historical developments and current targets for drug development and delivery routes Provides insights into comorbidities and their impact in patient compliance to treatment *Headache and Migraine Biology and Management* Seymour Diamond, Roger K. Cady, Merle L. Diamond, Mark W. Green, Vincent T. Martin, 2015-03-13 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

Practical Assessment and Treatment of the Patient with Headaches in the Emergency Department and Urgent Care Clinic Dawn A. Marcus, Philip A. Bain, 2011-07-29 Migraine is an extremely common condition affecting 28 million Americans Fully 1 in every 6 adult women suffers from this malady Patients with migraine are frequently seen in the Emergency Room and Urgent Care Clinic for acute treatment of their headaches Headache generally accounts for nearly 3 % of all ER visits resulting in almost 3.5 million visits annually There currently are no widely used guidelines for the treatment of patients with headache in the ER or UCC and reducing the number of CT scans remains a key goal for administrators in many ER or urgent care settings In one study 35 drugs alone or in combination were used to treat migraine The most common medication class used was narcotics which were used in 25% of the visits The next two most commonly used classes were antiemetics and NSAIDs Only 5% of patients seen for headache received headache specific medications during their visit ER and Urgent Care physicians generally have little or no formal training in treating these patients Consequently they often feel less comfortable ruling out secondary causes of headaches and using appropriate headache treatment medications and procedures Since many patients have received narcotics in previous visits providers may view them as drug seekers Patients seen in ERs and UCCs for acute treatment of their headaches often report high levels of dissatisfaction They often end up in the ER or UCC because they don't have a formal treatment strategy for their severe headaches Health plans and insurance agencies are often frustrated by the high cost of fragmented care for patients with headaches Because of the environment that most ER and UCC providers operate in many unnecessary scans and tests are done because of uncertainty of the diagnosis and unfamiliarity of the patient Primary care physicians are also frustrated by patients with headaches presenting to them after being seen in the ER or UCC wanting a refill of their narcotics that they were given Many patients don't follow up with their PCPs and simply keep returning to the ER UCC for their treatment In short all involved in the care for patients with headache are frustrated by the current system The care for these patients is

clearly not optimal. It doesn't have to be that way. There are a wide variety of effective treatment options available but are underutilized in the acute setting. With these treatment options patients no longer have to be treated only with parenteral narcotics only to perpetuate the cycle of suboptimal care described above. This concise handbook covers all aspects of acute headache care including care of the child and adolescent with acute headaches, treatment of pregnant and breastfeeding women with acute headaches and appropriate evaluation of secondary headaches. In addition, two other novel chapters are included: one on caring for older patients with acute headaches as well as a chapter describing how to ensure a seamless transition of the patient back to a headache interested provider. Representing an important milestone in the care of patients with headache, this is the first concise handbook available to exclusively address the issue of headache treatment in the acute care setting. Including protocols and strategies that can be used right away. *Management of Headaches in Emergency Room and Urgent Care Settings*. Diagnosis and Management provides information about lesser known but effective strategies such as greater occipital nerve blocks that can be easily learned and incorporated in the acute care setting. It emphasizes the continuity of care that is so vital to keep headache patients from returning to the ER and UCC for acute treatment.

Vestibular Migraine and Related Syndromes Bruno Colombo, Roberto Teggi, 2014-08-18. This book provides a multidisciplinary approach to vestibular migraine and related syndromes in which dizziness is the most predominant feature. Starting from the neurological point of view, the pathophysiology, classification, neurophysiology and therapy of migraine are discussed. Readers will learn how to recognize and properly treat vestibular migraine which is often undiagnosed or misdiagnosed as Meniere's syndrome, a form of vertigo characterized by vertigo spells and hearing loss that presents comorbidity with migraine or benign paroxysmal positional vertigo in which patients experience brief episodes of vertigo lasting from seconds to 1 minute when they move their heads in a certain way. The described diagnostic and therapeutic strategies include the newest state of the art approaches. Further aspects of migraine that are considered include hyperexcitability in the brain and the triad of migraine, dizziness and anxiety. In addition, the imaging of migraine and of vestibular migraine in particular is discussed and clinical records are reported. *Vestibular Migraine and Related Syndromes* is based on the practical and clinical experiences of an authoritative group of well known neurologists, ENT specialists and neuro-otologists. It provides neurologists with a complete overview of relevant clinical features, otolaryngologists with clear descriptions of clinical aspects and the pathophysiology of migraine and radiologists with guidance on the role of imaging techniques.

Migraine Management Jerry W. Swanson, Manjit Matharu, 2024-02-01. *Migraine Management* Volume 196 covers the effective treatment of migraines including different subtypes of migraines in different patient populations. The classification and diagnostic criteria of common and uncommon subtypes of migraine is explored in detail including childhood variants. An in-depth analysis of the pharmacology of acute and prophylactic agents is presented along with an evidence based review of pharmacologic management. This includes recently developed CGRP monoclonal antibodies and non

peptide small molecule CGRP antagonists Advances in neuromodulatory treatments both noninvasive and implantable are also critically reviewed Finally specific treatment related issues in pregnancy and lactation and childhood as well as the elderly are covered Issues related to the diagnosis and management of vestibular migraine and the co morbid disorder of persistent postural perceptual dizziness is also explored Summarizes evidence based best treatment for migraines Differentiates treatment based on patient population migraine type and clinical setting Includes pharmacological biobehavioral and physical treatments Provides specialized treatments for children the elderly and pregnant patients

Handbook of Headache Paolo Martelletti, Timothy J. Steiner, 2011-08-14 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 represents a compendium for medical students who are usually introduced to this topic through multidisciplinary university programmes

Traumatic Brain Injury Jack W. Tsao, 2019-11-19 This thoroughly revised and updated work covers numerous advances in traumatic brain injury diagnosis evaluation treatment and pathophysiology Since publication of the first edition in 2012 there has been greatly increased public awareness of the clinical consequences of even the mildest of head injuries and the result has been a concerted effort of countries around the world to increase research funding This second edition continues to focus on mild traumatic brain injury or concussion and contains updates to all the original chapters as well as adding new chapters addressing clinical sequelae including pediatric concussion visual changes chronic traumatic encephalopathy and blast associated TBI

Traumatic Brain Injury A Clinician's Guide to Diagnosis Management and Rehabilitation Second Edition is a comprehensive resource designed for neurologists primary care clinicians sports physicians and other medical providers including psychologists and neuropsychologists as well as athletic trainers who may evaluate and care for individuals who have sustained a TBI The book features summaries of the most pertinent areas of diagnosis and therapy which can be readily accessed by the busy clinician professional In addition the book's treatment algorithms provide a highly practical reference to cutting edge therapies and an updated appendix of ICD codes is included An outstanding contribution to the literature

Traumatic Brain Injury A Clinician's Guide to Diagnosis

Management and Rehabilitation Second Edition again offers an invaluable resource for all providers who treat patients with TBI

Neurologic Emergencies, An Issue of Neurologic Clinics Alireza Minagar,Alejandro A. Rabinstein,2012-02-28 Many neurologic disorders can appear in quick and severe forms that require immediate medical attention This issue of Neurologic Clinics features 14 articles on conditions that commonly present acutely such as epilepsy headache visual loss nervous system infections ischemic stroke head and spinal cord injury and intracranial hemorrhage

Taylor's Manual of Family Medicine Paul M. Paulman,Audrey A. Paulman,Kimberly J. Jarzynka,Nathan P. Falk,2015-03-18 Designed for today's busy practitioner Taylor's Manual of Family Medicine 4th Edition provides practical expert guidance for the issues you face daily in family practice and primary care Easy to understand and clinically useful this trusted manual has been thoroughly updated with the latest clinical information and evidence including electronic resources Whether you're a physician in a clinic extended care or hospital setting or a resident or practitioner looking for a high yield board review tool this manual addresses the real world issues you see most allowing you to provide optimum care for every patient Stay up to date with all new chapters and expanded chapters on delirium movement disorders dementia pregnancy loss and stillbirth acute musculoskeletal injuries and more Get the latest practical information on commonly encountered clinical problems including OB GYN and childbirth pediatrics and mental health Find what you need quickly with templated chapters that cover diagnostic criteria clinical presentation differential diagnosis and screening including physical diagnosis laboratory findings and imaging studies Understand how to make the right diagnosis and know when to order the right test based on common presenting symptoms Use this manual to study efficiently and effectively for the ABFP certification and recertification exams Topics follow ACGME and AAFP program requirements for residency training

Pharmacological Management of Headaches Dimos D. Mitsikostas,Koen Paemeleire,2015-08-26 In this book headache experts summarize all the currently available therapies for primary headaches and most importantly describe the tricks that can ensure the success of headache pharmacotherapy Prevention and acute treatment of migraine and cluster headache receive particular attention and individual chapters are devoted to the treatment of primary headaches in special groups i.e children pregnant women and the elderly Further chapters focus on selected secondary headache disorders and cranial neuralgias for which pharmacotherapy is available The book is designed to meet the daily practice needs of general physicians general neurologists neurologists in training and medical students Headache remains a leading reason for people to seek medical consultation and migraine and other primary headache disorders are classified by the WHO as among the most disabling medical conditions in the general population often affecting individuals during their most productive years Unfortunately under treatment and mismanagement are the fate of many headache patients and this book provides a sound basis for optimizing treatment

Oxford Textbook of Headache Syndromes Michel Ferrari,Andrew Charles,Joost Haan,David Dodick,Fumihiko Sakai,2020 Headache syndromes rank amongst the most common presenting symptoms in general practice

and neurology affecting up to 15% of the adult population Part of the Oxford Textbooks in Clinical Neurology series the Oxford Textbook of Headache Syndromes provides clinicians with a definitive resource for diagnosing and managing patients with primary and secondary forms of headaches either as isolated complaints or as part of a more complex syndrome Split into 7 key sections with 59 chapters this comprehensive work discusses the scientific basis and practical management of headache syndromes in a logical format Each chapter is written by international experts in neurology who share their research and extensive experience by providing a wealth of practical advice for use in clinical situations In addition all content is up to date and chapters incorporate discussions on the latest International Classification of Headache Disorders 3rd edition when relevant

Integrative Medicine E-Book David Rakel,2012-04-12 Integrative Medicine by Dr David Rakel provides the practical evidence based guidance you need to safely and effectively integrate complementary and alternative medical treatments into your practice This medical reference book lays the framework for making the best use of these therapeutic modalities and understanding the mechanisms by which these interventions work keeping you at the forefront of the trend toward integrative health care Incorporate therapeutic integrative medicine modalities into clinical practice through the Tools for Your Practice section that offers how to application for recommending mediation prescribing probiotics and how to do an elimination diet Apply integrative treatments for a full range of diseases and conditions including autism stroke chronic fatigue syndrome and various forms of cancer see how to advise patients on health maintenance and wellness and get valuable advice on topics such as meditation diet and exercises for back pain Avoid potential complications with recommended dosages and precautions Enhance patient care with therapy based guidance and printable patient education guides Implement proven integrative treatments for various diseases thanks to an evidence based therapeutic approach Weigh the likely effectiveness of various treatments vs their potential harm with helpful icons based on the SORT Strength of Recommendation Taxonomy method Validate potential interventions through the latest research in genomics and advanced imaging technologies such as MRI

Orofacial Pain, An Issue of Dental Clinics of North America Steven D. Bender,2018-09-07 This issue of Dental Clinics of North America focuses on Orofacial Pain and is edited by Dr Steven D Bender Articles will include An Introduction to Orofacial Pain Clinical Assessment of the Orofacial Pain Patient Imaging in Orofacial Pain Musculoskeletal Disorders Neuropathic Orofacial Pain Burning Mouth Syndrome Painful Oral Lesions The Primary Headaches Sleep and Pain Sleep Bruxism Sex Gender and Orofacial Pain Mind Body Considerations in Orofacial Pain and more

Migraine in Medicine Paolo Martelletti,2022-08-05 This book on migraine is the first machine generated scientific book in medicine published by Springer Nature and reflects a new publication format which focuses on literature reviews state of the art computer algorithms were applied to select relevant sources from Springer Nature journal articles rearrange them in a topical order and provide short summaries of these articles The result is the auto summarization of current texts organized by means of a similarity based clustering routine in coherent chapters and sections The human

intervention of a world renowned expert in this field grants the scientific soundness and appropriate organization of the contents identified The AI based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex interdisciplinary and multidisciplinary as is migraine the most important among the chronic non communicable diseases under the age of 50s The result of this innovative process will be of help especially for readers with limited time interested in migraine and wishing to learn more about the subject quickly and particularly if they are new to the topic Springer Nature seeks to support anyone who needs a fast and effective start in their content discovery journey from the undergraduate student exploring interdisciplinary content to Master or PhD thesis developing research questions to the practitioner seeking support materials this book can serve as an inspiration to name a few examples **Advances in**

Headache Disorders Debashish Chowdhury,2024-10-20 **General Practice** Kerryn Phelps,Craig Hassel,2011 The aim of the book is to provide a comprehensive General Practice text book which takes a contemporary integrative approach to diagnosis investigation and management of health issues and disease states encountered in the general practice environment The book will cover the philosophy underpinning general practice in the 21st Century and deal with primary and secondary prevention as well as acute and chronic disease management General Practice The Integrative Approach will inform doctors as fully as possible about potential treatment and prevention options as well as potential pitfalls according to the growing evidence base in this area The book is directed at best practice rather than alternative practice The first section of the textbook lays the foundations and principles of Integrative Medicine and the second section examines important medical conditions in a systems based approach Each chapter begins by detailing the allopathic medical and consulting knowledge required of a standard GP text discussing physiology and pharmacological management plans of systems based conditions The chapter then leads into an evidence based discussion of the therapeutic options available for the treatment of associated factors essentially providing practitioners with the knowledge required to adapt their approach to meet the needs of the individual patient A national panel of experts with experience in Chinese medicine herbal medicine nutritional medicine naturopathy and exercise therapy have contributed to their various fields of expertise to incorporate management plans that utilise a variety of therapeutic modalities to achieve the best clinical outcome incorporates evidence based and safe therapies including conventional medical care lifestyle interventions and complementary therapies is directed at best practice rather than alternative practice focuses on prevention and health promotion a symptomatic layout matching the approach of contemporary medical curriculum each therapeutic modality and therapeutics contributor is coded with an icon for easy modality reference a unique chapter covering medico legal issues a ready reference herb drug interaction chart expert authors include Dr Kerryn Phelps well known Australian medical practitioner and President of the Australasian Integrative Medicine Association AIMA Metabolism of Human Diseases Eckhard Lammert,Martin Zeeb,2014-06-02 Metabolism of Human Diseases examines the physiology of key organs e g brain eye lung heart blood vessels blood immune system

gastrointestinal tract pancreas liver fat tissue kidney reproductive system teeth bone and joints and how defective metabolism and signaling pathways within these organs contribute to common human diseases The latter include depression schizophrenia epilepsy Parkinson s disease Alzheimer s disease migraine multiple sclerosis Down syndrome macular degeneration glaucoma asthma COPD pneumonia atherosclerotic heart disease heart failure stroke varicose veins Sickle cell disease hyperlipidemia fever sepsis allergies peptic ulcer gastroenteritis lactose intolerance colon cancer diabetes cirrhosis metabolic syndrome hypertension chronic kidney disease gout urinary tract infections kidney stones dental caries osteoporosis osteoarthritis rheumatoid arthritis breast cancer and prostate cancer The book also describes commonly used drugs and explains their molecular targets It provides the first comprehensive and detailed summary of the metabolism of individual organs and their physiological and pathological functioning Thus it serves as a useful supplement to previous textbooks of human physiology Metabolism of Human Diseases is a must have state of the art textbook written by International experts for graduate students postdocs and scientists in metabolic research biochemistry physiology and pharmacy as well as for physicians interested in molecular mechanisms underlying common human diseases

Adopting the Song of Term: An Emotional Symphony within **Revised Report Of Efns Migraine 2009**

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