



Review

The Pharmacological Treatment of Chronic Pain: From Guidelines to Daily Clinical Practice

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Abstract: In agreement with the International Association for the Study of Pain, chronic pain is an unpleasant sensory and emotional experience associated with actual or potential tissue damage. To date, there are several types of pain: nociceptive, neuropathic, and nociplastic. In the present narrative review, we evaluated the characteristics of the drugs used for each type of pain, according to guidelines, and their effects in people with comorbidity to reduce the development of severe adverse events.

Keywords: nociceptive pain; neuropathic pain; nociplastic pain; drug treatment; drug interactions; guidelines



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1. Introduction

The International Association for the Study of Pain (IASP) describes chronic pain as an unpleasant sensory and emotional experience associated with, or resembling that associated with, actual or potential tissue damage [1]. Chronic pain lasting for at least 3 months may impair the social, psychological, and physical sphere of a subject, leading to serious impairment of both their autonomy and mood [2]. Social factors (e.g., job, lifestyle, and economic and religious status), self-perception, mood alterations, and physical illness are risk factors for chronic pain [3]. According to IASP recommendations, chronic pain is classified as nociceptive (involving tissue or potential tissue damage), neuropathic (involving disease or injury affecting the nervous system), and nociplastic (with no evidence of tissue or nerve damage but persistent overregulation of the nociceptive system) [3,4].

Concerning the types (mechanisms) of pain, the choices of drugs for chronic pain include non-steroidal anti-inflammatory drugs (NSAIDs) (for cyclic short-course treatment), opioids, and central nervous system (CNS)-acting drugs.

1.1. NSAIDs

In patients with chronic nociceptive pain (e.g., tendonitis, osteoarthritis, or back pain), a shorter course of NSAIDs can be considered [5–7]. Evaluating their pharmacodynamic differences, ibuprofen and naproxen are non-selective COX inhibitors, and celecoxib and diclofenac are COX-2 semi-selective drugs, whereas etoricoxib is a COX-2 selective inhibitor [8,9].

Pharmacological Approaches To The Treatment Of Chronic Pain

Pat Schofield



Pharmacological Approaches To The Treatment Of Chronic Pain:

Pharmacological Approaches to the Treatment of Chronic Pain Howard L. Fields, John C. Liebeskind, 1994 **Pain and Neurogenic Inflammation** Susan Brain, P.K. Moore, 1999 This volume is intended to bring together recent advances in the often separate fields of pain and neurogenic inflammation To this end eminent researchers from both domains have contributed in depth discussion of the mechanisms underlying these processes Individual chapters focus on important recent discoveries such as the cloning of the capsaicin receptor and the discovery of RAMP proteins for CGRP receptors This book provides an integrated account of recent advances in the fields of pain and neurogenic inflammation The volume is intended to bring together studies from eminent researchers in the often separate research fields of pain and inflammation Pain and Neurogenic Inflammation is aimed primarily at postgraduate researchers as well as academic and industrial researchers in pain and inflammation but is also likely to be of interest to undergraduate students seeking a firm grounding in the mechanisms underlying these important clinical conditions **Weiner's Pain Management** Mark V. Boswell, B. Eliot Cole, 2005-08-31 This seventh edition of a bestseller has been totally revised and updated making this the most comprehensive rewrite in the book's long and distinguished history It includes new chapters new sections and section editors and new contributors Offering an interdisciplinary approach to pain management the book delivers a scholarly presentation for *Fundamental Orthopedic Management for the Physical Therapist Assistant - E-Book* Gary A. Shankman, Robert C. Manske, 2010-10-01 More than 30 new contributors participated in this new edition allowing you to learn from experts in each field Unique Rheumatic Disorders chapter covers disorders such as arthritis gout fibromyalgia and systemic lupus erythematosus including pathophysiology a description of the inflammation and pharmacological and non pharmacological interventions Unique Pain and Pain Syndromes chapter covers types of pain pain mechanisms its measurement and its management Unique Bracing Orthotics and Prosthetics chapter outlines the types of materials used to construct braces orthotics and prosthetics the use of each unit by anatomic area their biomechanics the indications and contraindications for each as well as an introduction to amputation **Pain Management** Richard S. Weiner, 2001-12-20 This authoritative reference the Sixth Edition of an internationally acclaimed bestseller offers the most up to date information available on multidisciplinary pain diagnosis treatment and management Pain Management A Practical Guide for Clinicians is a compilation of literature written by members of The American Academy of Pain Management the largest multidisciplinary society of pain management professionals in North America and the largest physician based pain society in the United States This unique reference covers both traditional and alternative approaches and discusses the pain of children as well as adult and geriatric patients It includes approximately 60 new chapters and each chapter is written to allow the reader to read independently topics of interest and thus may be viewed as a self contained study module The collection of chapters allows an authoritative self study on many of the pressing issues faced by pain practitioners Regardless of your specialty or medical

training or whether you are in a large hospital or a small clinic if you work with patients in need of pain management this complete reference is for you Sourcebook of Occupational Rehabilitation Phyllis M. King, 2013-11-11 Experts from academia clinical settings and the business world pool their knowledge about work injury prevention and management in the new Sourcebook of Occupational Rehabilitation The 22 contributions in this wide ranging reference address aspects of the three primary areas of service delivery prevention assessment and rehabilitation The text takes a multidisciplinary viewpoint toward its subject in order to shed light on the mechanisms and management of work related disorders It boasts a wealth of current and in depth information and takes a practical applications approach to rehabilitation **Practical Management of Pain** Honorio MD Benzon, James P. Rathmell, Christopher L. Wu, Dennis C. Turk, Charles E. Argoff, Robert W Hurley, 2013-09-12 Obtain all the core knowledge in pain management you need from one of the most trusted resources in the field The new edition of Practical Management of Pain gives you completely updated multidisciplinary overview of every aspect of pain medicine including evaluation diagnosis of pain syndromes rationales for management treatment modalities and much more In print and online it is all the expert guidance necessary to offer your patients the best possible relief In summary this is the best explanation of what lies behind MRI that I have read taking what can be a dry subject and making it readily understandable and really interesting I would recommend it to anyone starting their MRI training and anyone trying to teach MRI to others Reviewed by RAD Magazine June 2015 Understand and apply the latest developments in pain medicine with brand new chapters covering disability assessment central post stroke pain chronic widespread pain and burn pain Effectively ease your patients pain with today s best management techniques including joint injections ultrasound guided therapies and new pharmacologic agents such as topical analgesics Access up to the minute knowledge on all aspects of pain management from general principles to specific management techniques with contributions from renowned experts in the field Read the full text and view all the images online at expertconsult com Understand and apply the latest developments in pain management with brand new chapters covering disability assessment central post stroke pain widespread chronic pain and burn pain Effectively ease your patients pain with today s best management techniques including joint injections ultrasound guided therapies and new pharmacologic agents such as topical analgesics Psychological Approaches to Pain Management, Third Edition Dennis C. Turk, Robert J. Gatchel, 2018-07-03 This authoritative handbook now significantly revised with more than 50% new material has introduced thousands of practitioners and students to the state of the art in psychological interventions for managing pain Leading experts review the most effective treatment approaches for enhancing patients coping and self efficacy and reducing pain related disability including cognitive behavioral therapy biofeedback clinical hypnosis group therapy and more Strategies for integrating psychosocial and medical treatments for specific populations are described with chapters on back pain headache cancer and other prevalent chronic pain disorders Attention is given to customizing intervention for individual patients maximizing treatment adherence and preventing overuse of

opioids and other medications New to This Edition Chapter on resilience focusing on mindfulness and acceptance based approaches Chapters on managing pain with comorbid psychological disorders posttraumatic stress disorder and substance use disorder Chapter on emerging uses of technology Even more practitioner friendly every chapter concludes with bulleted Clinical Highlights Many new authors extensively revised with over 15 years of research and clinical advances *Textbook of Palliative Medicine and Supportive Care* Eduardo Bruera,Irene Higginson,Charles F. von Gunten,Tatsuya Morita,2015-01-15 the thoroughness of the text has to be admired It is an excellent starting point for students of palliative care which makes an important contribution to any library British Journal of Hospital Medicine covers a plethora of topics ranging from the development of palliative medicine in different countries to clinical topics and bioethics an General Practice Kerry Phelp, Craig Hassed,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 Kerry Phelp well known Australian medical practitioner and President of the Australasian Integrative Medicine Association AIMA Evaluation and Treatment of Chronic Pain Gerald M. Aronoff,1999 **The Management of Pain in Older People** Pat Schofield,2007 A workbook designed to give you a basic introduction into the issues around pain in older people It explores the size and nature of the

problem along with practical assessment and management approaches and will help you to think about the issues in your own area of practice it is not designed to make you an expert in pain management but to increase your awareness of the complexity of the pain experience when working with older adults and to help you to understand the need for a creative and innovative approach to dealing with the person in your care who may be in pain

Bonica's Management of Pain Scott M. Fishman, 2012-03-29 Now in its Fourth Edition with a brand new editorial team Bonica's Management of Pain will be the leading textbook and clinical reference in the field of pain medicine An international group of the foremost experts provides comprehensive current clinically oriented coverage of the entire field The contributors describe contemporary clinical practice and summarize the evidence that guides clinical practice Major sections cover basic considerations economic political legal and ethical considerations evaluation of the patient with pain specific painful conditions methods for symptomatic control and provision of pain treatment in a variety of clinical settings

Pain Eileen Mann, Eloise Carr, 2017-09-16 Broadened to include coverage of community settings and updated to address changes in practice Pain 2 e is a solid introduction to the subject Developed from original learning tools it is underpinned by a comprehensive pedagogic framework and is an essential resource for all involved in pain management and assessment

Pain Management in Veterinary Practice Christine M. Egger, Lydia Love, Tom Doherty, 2013-12-31 Pain Management in Veterinary Practice provides veterinary practitioners with the information needed to recognize and manage pain in a wide range of large small and exotic animal species Encompassing acute adaptive and chronic maladaptive pain the book provides an up to date review of the physiology and pathophysiology of pain Pain Management in Veterinary Practice offers specific strategies for addressing pain in animals including local and regional analgesia continuous rate infusions and novel methods of analgesic drug delivery With comprehensive information on the pharmacokinetic and pharmacodynamic characteristics of analgesic drugs the book goes beyond pharmaceutical options to incorporate scientific information on techniques for complementary treatment including physical therapy acupuncture chiropractic techniques and nutritional strategies Pain Management in Veterinary Practice is a valuable resource for developing pain management protocols in the veterinary clinic

[Pain Management Approaches](#) Felicia Dunbar, AI, 2025-05-05 Pain Management Approaches offers a comprehensive guide for individuals seeking relief from chronic pain emphasizing a multifaceted approach beyond just masking symptoms It highlights the importance of understanding pain as a complex biopsychosocial experience noting that effective management requires integrating clinical treatments lifestyle modifications like diet and exercise and informed healthcare access Did you know that pain management has evolved from rudimentary methods to sophisticated interdisciplinary approaches Or that a holistic approach is essential in addressing pain This book doesn't assume prior medical knowledge it introduces neurophysiological concepts of pain in an accessible manner It progresses logically starting with fundamental pain concepts and moving through pharmacological and non pharmacological therapies lifestyle adjustments and strategies for navigating

the healthcare system It empowers readers to become active participants in their care providing practical tools for self management and shared decision making **Handbook of Pain and Palliative Care** Rhonda J. Moore,2013-10-25

Handbook of Pain and Palliative Care Biobehavioral Approaches for the Life Course Rhonda J Moore editor This book takes both a biobehavioral and a lifespan approach to understanding long term and chronic pain and intervening to optimize patients functioning Rich in clinical diversity chapters explore emerging areas of interest computer based interventions fibromyalgia stress ongoing concerns cancer pain low back pain and special populations pediatric elderly military This coverage provides readers with a knowledge base in assessment treatment and management that is up to date practice strengthening and forward looking Subject areas featured in the Handbook include Patient practitioner communication Assessment tools and strategies Common pain conditions across the lifespan Biobehavioral mechanisms of chronic pain Pharmaceutical neurological and rehabilitative interventions Psychosocial complementary alternative narrative and spiritual approaches Ethical issue and future directions With the rise of integrative perspective and the emphasis on overall quality of life rather than discrete symptoms pain management is gaining importance across medical disciplines Handbook of Pain and Palliative Care stands out as a one stop reference for a range of professionals including health practitioners specializing in pain management or palliative care clinical and health psychologists public health professionals and clinicians and administrators in long term care and hospice *Fundamental Orthopedic Management for the Physical Therapist Assistant* Robert C. Manske,2015-05-22

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of Trauma and Orthopaedic Nursing Rebecca Jester, Julie Santy Tomlinson, Jean Rogers, 2021-01-28 Nurses must deliver up to date clinically effective evidence based care across a range of settings and develop nursing services to meet changing demands The revised and expanded Oxford Handbook of Trauma and Orthopaedic Nursing 2nd edition is tailored to provide the essential knowledge nurses need at their fingertips when they need it This handbook will guide the reader systematically through the care of patients with a wide range of musculoskeletal problems Each chapter contains the up to date evidence based guidelines covering a continuum from birth to death covering everything from emergency care rehabilitation discharge and end of life care It now includes new topics such as pharmacological alternatives to blood transfusion disability and enabling environments hip articulations and health promotion Providing key summaries of common problems and essential issues it will provide both an invaluable reference for trauma and orthopaedic nurses as well as a precise targeted guide for nurses from other specialties caring for patients with musculoskeletal problems

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