

PAIN AND OPIOID (NARCOTIC) ANALGESICS¹

● DRUGS USED FOR TREATMENT OF PAIN

Pain is the most common symptom for which patients see a doctor. Optimal management of pain requires that clinician should have a conceptual framework for what is happening to the patient in mind and body. Different types of drugs are used for treatment of pain. In general, they include:

1. Drugs relieving pain due to multiple causes (analgesics):

- **narcotic analgesics** (morphine, fentanyl etc): act chiefly in the CNS
- **non-narcotic analgesics** (paracetamol, metamizole): act chiefly peripherally

2. **Drugs relieving pain due to a single cause or specific pain syndrome only.** They are not classified as analgesics: e.g. naratriptan (migraine), carbamazepine (neuralgias), glyceryl trinitrate (angina pectoris), adrenal steroids (inflammatory pain), butylscopolamine (spasm of visceral smooth muscles), baclofen (spasm of striated muscles), etc.

3. **Adjuvant drugs** (anxiolytics, neuroleptics, antidepressants) may modify the perception of pain and remove the concomitants of pain such as anxiety, fear, and depression. Placebo gives relief in 3%.

4. **Anaesthetics** are used during surgical operations, some diagnostic and other painful procedures.

● FOUR MAJOR ASPECTS OF PAIN

1. **Nociception** is a consequence of tissue injury (trauma, inflammation) causing the release of chemical mediators (ACh, PGE, NA, 5-HT, glutamate, bradykinin, endogenous opioids, adenosine) which have neuronal or non-neuronal origin. These mediators activate nociceptors. *Nociceptors (pain receptors)* transmit information by thin myelin (A-delta) and non myelin (C) fibers to the spinal cord and brain.
2. **Pain perception** has a complex mechanism. It is a result of nociceptive impulses reaching the brain (thalamus, cortex), plus impulses from other peripheral receptors, e.g. heat and mechanoreceptors, whose threshold of response is reduced by the same chemical mediators. These are processed in the brain whence modulated inhibitory impulses pass down to regulate the continuing afferent input. But pain can occur without nociception (some neuralgias). *Pain is a psychological state*; though most types of pain have a physical cause.
3. **Suffering** is a consequence of pain and lack of understanding by patients what the meaning of pain is. Suffering comprises of *anxiety, fear* (particularly in acute pain) and *depression* (in chronic pain), which will be affected by patient's personality and his beliefs about the significance of pain. Depression makes a major contribution to suffering. *Pain threshold* is lowered by anxiety, anger, sadness, fatigue or insomnia.
4. **Pain behavior** comprises of nociception, pain perception and suffering. It includes facial expression of patients, restlessness, seeking isolation or company, medicine-taking, etc. The clinician's task is to determine the significance of these items for each patient and according to them to give suitable treatment. Analgesics may be needed, but not as a mainstay of therapy; adjuvant drugs may be needed, as well as non drug therapy (surgery, radiation).

¹ Adapted from P.N. Bennett and M. J. Brown (Clinical Pharmacology, 9th Ed.Churchill Livingstone, London, 2003) by I. Lambey.

Narcotic Analgesics In Anesthesiology

Robert K. Stoelting, Simon C. Hillier



Narcotic Analgesics In Anesthesiology:

Narcotic Analgesics in Anesthesiology Luke M. Kitahata, Jerry G. Collins, 1982 *Opioids in Anesthesia* Fawzy G. Estafanous, 1984 *Regional Opioid Analgesia* J. de Castro, J. Meynadier, Michael Zenz, 2012-12-06 by E K ZSIGMOND M D

Department of Anesthesiology University of Illinois Chicago U S A It is indeed a distinct honor and privilege to be invited by the authors to write a preface to this monumental monograph *Regional Opioid Analgesia* *Regional Opioid Analgesia* is a colossal undertaking by Drs De Castro Meynadier and Zenz shortly after the introduction of this revolutionary approach to pain relief which opened a new epoch in analgesiology This is indeed the first authentic and comprehensive textbook encompassing the current knowledge on this novel approach to pain relief We are indebted to the authors for introducing the new opioids to regional analgesia with the scientists who developed the potent short and ultrashort acting opioids with high therapeutic indices which many researchers dreamt about but never before materialized The side effect liabilities of these new opioids are minute as compared to morphine and meperidine *Regional Opioid Analgesia* could not have been more authentically written than by Drs De Castro Zenz and Meynadier who have conducted daily clinical investigations on all known opioids for regional analgesia as well as for neurolept analgesia Therein lies the great value of this monograph it is the most authentic work on this topic **Opioid Agonists, Antagonists, and Mixed Narcotic Analgesics** Enno Freye, 1987 The concept of this manuscript is to incorporate the basic knowledge which is necessary for the practical use of central analgesics and their antagonists in a concise and understandable form With this concept in mind the enormous advances of the last decade with regard to the mode of action of opioids are covered The manuscript is not intended to be a scientific textbook rather it is meant to be an introductory reference book about opioids and their antagonists and about their pros and cons with regard to the various specialities where opioids are used for the alleviation of pain Because of its brevity there is no question of its being complete Where new information necessitates extended explanation there is a detailed discussion In other cases value has been placed on conciseness The author is grateful for any advice corrections and suggestions The work of William A Coleman who prepared the translation is greatly appreciated Dusseldorf January 1987 Enno Freye Contents Preface V The Use of Opioids During Anaesthesia and Their Importance in Clinical Application 1 Classical Potentiated Anaesthesia 3 Relaxation Anaesthesia 3 Neurolept 4 Neuroleptanaesthesia 6 Sequential Anaesthesia 8 Synaptanalgesia 8 Balanced Anaesthesia 9 Technique for Balanced Anaesthesia Using Narcotic Analgesics 10 The Mode of Action of Opioids 15 Specific Binding Sites for Opioids in the CNS 15 The Three Main Characteristics of Pain 19

Anesthesiology 1986 T.H. Stanley, W.C. Petty, 2012-12-06 Theodore H Stanley M D W Clayton Petty M D *Anesthesiology* 1986 contains the Refresher Course manuscripts of the presentations of the 31st Annual Postgraduate Course in Anesthesiology which took place at the Westin Hotel Utah Convention Center in Salt Lake City Utah February 14 18 1986 The chapters reflect recent and future developments in anesthetic techniques monitoring instruments and devices and

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Anesthesiology and Pain Management T.H. Stanley,M.A. Ashburn,P.G. Fine,2012-12-06 Theodore H Stanley M D Anesthesiology and Pain Management contains the Refresher Course manuscripts of the presentations of the 36th Annual Postgraduate Course in Anesthesiology which took place at The Cliff Conference Center in Snowbird Utah February 22-26 1991 The chapters reflect new data and concepts within the general framework of pain research and basic science clinical topics in pain management The purposes of the textbook are to 1 act as a reference for the anesthesiologists attending the meeting and 2 serve as a vehicle to bring many of the latest concepts in anesthesiology to others within a short time of the formal presentation Each chapter is a brief but sharply focused glimpse of the interests in anesthesia expressed at the conference This book and its chapters should not be considered complete treatises on the subjects addressed but rather attempts to summarize the most salient points This textbook is the ninth in a continuing series documenting the proceedings of the Postgraduate Course in Salt Lake City We hope that this and the past and future volumes reflect the rapid and continuing evolution of anesthesiology in the late twentieth century

ix list of Contributors Ashburn Michael A Department of Anesthesiology University of Utah Salt Lake City Utah Basbaum Allan Department of Anatomy Physiology University of California San Francisco San Francisco California Bonica John J Department of Anesthesiology The University of Washington Seattle Washington Cousins Michael J

Pharmacology and Physiology in Anesthetic Practice Robert K. Stoelting, Simon C. Hillier, 2012-01-11 Dr Stoelting's best selling and highly acclaimed text *Pharmacology and Physiology in Anesthetic Practice* is now in its thoroughly updated Fourth Edition. In 60 concise clearly written chapters this book provides comprehensive current clinically oriented authoritative information on all aspects of pharmacology and physiology that are relevant to perioperative patient management. This edition includes all new drugs and new findings on actions and interactions of established drugs. More than 400 diagrams and more than 100 tables complement the text. This edition's new two color page design will help readers spot key information. A separate drug index is included for quick reference. Cardiovascular Actions of Anesthetics and Drugs Used in Anesthesia, Vol. 2 B. M. Altura, S. Halevy, 1986-06-12 **Clinical Anesthesia** Paul G Barash, Bruce F Cullen, Robert K Stoelting, Michael Cahalan, M Christine Stock, 2011-01-01 The premier single volume reference in the field of anesthesia *Clinical Anesthesia* is now in its Sixth Edition with thoroughly updated coverage, a new full color design and a revamped art program featuring 880 full color illustrations. More than 80 leading experts cover every aspect of contemporary perioperative medicine in one comprehensive clinically focused clear concise and accessible volume. Two new editors Michael Cahalan MD and M Christine Stock MD join Drs Barash Cullen and Stoelting for this edition. A companion Website will offer the fully searchable text plus access to enhanced podcasts that can be viewed on your desktop or downloaded to most Apple and BlackBerry devices. This is the tablet version which does not include access to the supplemental content mentioned in the text.

Decision-Making in Orthopedic and Regional Anesthesiology Michael R. Anderson, Sylvia H. Wilson, Meg A. Rosenblatt, 2015-09-17 In light of evolving techniques and strategies for increasingly complex orthopedic procedures this accessible guide to patient management outlines the considerations involved in selecting the most suitable anesthetic for both common and complex clinical scenarios. Chapters cover a multitude of clinical presentations and procedures ranging from orthopedic trauma to total joint replacement outpatient hand procedures and regional anesthetic placement in patients with pre-existing conditions. Each chapter discusses and evaluates multiple approaches accompanied by a review of the current literature. Abundant case scenarios of patients undergoing orthopedic surgical or regional anesthesia provide a handy framework for specialists and consultants as well as an invaluable guide for trainees in anesthesia regional anesthesia and emergency medicine. , **Opioids in Medicine** Enno Freye, 2008-03-12 This book fills the void to provide a comprehensive review of the theoretical knowledge and scope of opioid pharmacotherapy in pain medicine. While the information provided is obtainable in other major texts already in print the present format style plus the illustrations will make easy reading and fast accessibility of information on opioids available. Information provided is based on clinical practice rather than pure experimental for use in daily practice. *The Wondrous Story of Anesthesia* Edmond I Eger II, Lawrence J. Saidman, Rod N. Westhorpe, 2013-09-14 Edited and written by an international who's who of more than 100 authors including anesthesiologists nurse anesthetists bench scientists a surgeon and representatives of industry this text provides a

comprehensive history of anesthesia unique in its focus on the people and events that shaped the specialty around the world particularly during the past 70 years when anesthesia emerged from empiricism and developed into a science based practice

Pediatric Regional Anesthesia Bernard J. Dalens, 2019-08-15 This book provides a precise description of safe and reliable procedures for regional anesthesia in children It covers the advantages and disadvantages specific features related to the pediatric range of ages and the practical importance of the described procedures Written in two main parts emphasis is placed on scientific basis and technical approach It includes both anatomical and psychological aspects of pain as well as detailed viewpoints of parents children surgeons and anesthesiologists This book is a must for all anesthesiologists and will be particularly useful to students of medicine and anesthesiology and nurses working with intensive care units

Clinical Pain Management Second Edition: Acute Pain Pamela Macintyre, David Rowbotham, Suellen Walker, 2008-09-26 Acute Pain brings coverage of this diverse area together in a single comprehensive clinical reference from the basic mechanisms underlying the development of acute pain to the various treatments that can be applied to control it in different clinical settings Much expanded in this second edition the volume reflects the huge advances that continue to be made in acute pain management Part One examines the basic aspects of acute pain and its management including applied physiology and development neurobiology the drugs commonly used in therapy assessment measurement and history taking post operative pain management and its relationship to outcome and preventive analgesia Part Two reviews the techniques used for the management of acute pain Methods of drug delivery and non pharmacological treatments including psychological therapies in adults and children and transcutaneous electrical nerve stimulation are considered here Part Three looks at the many clinical situations in which acute pain can arise and the methods of treatment that may be suitable in each circumstance whether the patient is young or old has pain due to surgery trauma medical illness or childbirth or is undergoing rehabilitation Issues specific to the management of acute pain in the developing world are also covered here

Neural Blockade in Clinical Anesthesia and Management of Pain Michael J. Cousins, Phillip O. Bridenbaugh, 1998 This unique text details the use of regional anesthesia for the management of all aspects of pain It demonstrates the various blocks used with lavish and classic illustrations to illuminate the text describing each procedure It also covers the latest aspects of pain management with recent advances and breakthroughs reported and discussed as to their relative usefulness and efficacy in clinical practice Classic contributions are balanced with reports of new technologic and research developments providing the best overview of regional anesthesia and pain management available today

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Anesthesiology: Today and Tomorrow T.H. Stanley, W.C.

Petty,2012-12-06 *Wylie Churchill-Davidson's A Practice of Anesthesia 7th Edition* Thomas EJ Healy,Paul R Knight,2003-10-31 The new edition of this popular text has been extensively revised and updated throughout It will continue to provide the trainee or practising anesthetist with all the information both background and practical that will be needed in the busy clinical setting or during revision for qualifying examinations Major changes for the new edition include increased international relevance made possible by the extensive input of a new American co editor and the selection of well known contributing authors from around the world The content is thus applicable to all trainees studying for and passing the variety of different certifying examinations for practising anesthesia in a wide range of locales The book presents both the basic science underlying modern anesthetic practice and up to date clinical anesthetic management techniques in a comprehensive but concise and accessible style Reviews are well referenced throughout to guide the reader towards additional information beyond the scope of this text The book will continue to provide in a single volume all the information relevant to the physician in training and serve as a convenient and reliable reference for the anaesthetist to use after training

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