

The role of 5-hydroxytryptamine and 5-hydroxytryptaminergic mechanisms in hypertension

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1 The possible role of 5-hydroxytryptamine (5-HT) and 5-HT-receptors in hypertension, already suggested by Page in 1954, has been subject to a renaissance of interest owing to the development of antihypertensive drugs which interact with 5-HT-receptors. These drugs, like ketanserin, urapidil and flesinoxan are used as tools to study the role of 5-HT and its receptors in hypertension.

2 The following arguments would plead in favour of a certain role of 5-HT and 5-HT-receptors in the pathogenesis and maintenance of hypertension: hyperresponsiveness of blood vessels from hypertensive patients and animals to 5-HT-induced constriction; the antihypertensive/vasodilator activity of the 5-HT₂-receptor antagonist ketanserin; enhanced sensitivity of platelets from hypertensives to 5-HT.

3 However, at least as many arguments would deny a role of peripheral 5-HT in hypertension, like for instance: the fact that 5-HT is not a generally accepted pressor agent, whereas its concentration in the circulating blood is subthreshold; the hyperresponsiveness of vessels from hypertensives is not specific for 5-HT; the elevated local concentration of 5-HT released by platelets is mainly limited to the microcirculation; the 5-HT₂-receptor antagonist ketanserin is the only agent of this type which lowers blood pressure, other 5-HT₂-receptor blockers like ritanserin and LY 53587 being inactive.

4 The various data and arguments available do not unequivocally support a relevant role of peripheral 5-HT and its receptors in hypertensive disease. 5-HT₂-receptor blockade may, however, have a favourable effect on the microcirculation under pathological conditions.

5 Finally, it may be speculated that central mechanisms of blood pressure regulation, which respond to 5-HT_{1A}-receptor stimulation with drugs like urapidil and flesinoxan, may play a role in hypertension.

Keywords 5-hydroxytryptamine hypertension

Introduction

As early as the 1950s, Page (1954) and Frohlich (1988) suggested that 5-hydroxytryptamine (5-HT), besides many other factors, might play a role in the development and maintenance of

essential hypertension and he incorporated 5-HT as a pathogenic factor in his well-known mosaic-theory of hypertension. After a long period of limited attention for the possible role

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Five Hydroxytryptamine Mechanisms In Primary Headaches Volume

**Jes Olesen, Timothy J. Steiner, Richard
B. Lipton**



Five Hydroxytryptamine Mechanisms In Primary Headaches Volume :

From Basic Pain Mechanisms to Headache Jes Olesen, Troels Staehelin Jensen, 2006 Though the topics of pain and headache are obviously linked these two research fields have in recent years developed at their own pace often with scant attention paid to the other By forging closer links between these fields it should be possible to develop a deeper understanding of both the pain mechanisms associated with headache and a deeper understanding of pain itself This book brings together researchers and clinicians from the forefront of these two disciplines to explore how the basic pain mechanisms relate to migraine and other forms of headache With cutting edge research from the frontiers of headache and pain research the book will be essential for clinicians treating headache sufferers providing answers to many of the commonly asked questions about the mechanisms of their headache It will also be of interest to those pain researchers dealing with mechanisms related to headache and migraine

Innovative Drug Development for Headache Disorders

Jes Olesen, Nabih Ramadan, 2008-08-21 This latest volume of the Frontiers in Headache Research series summarizes the several promising new avenues for the development of future drugs for the treatment of migraine

Headache Care, Research and Education Worldwide Jes Olesen, Nabih Ramadan, 2010-05-27 This book brings the theme of a global campaign to the forefront Researchers scientists and respected clinicians from around the world discuss aspects of access to care individual and societal burden

Headache Clinics Rigmor Jensen, Hans-Christoph Diener, Jes Olesen, 2007 Headache is a huge public health problem and migraine alone cost 27 billion Euros per year in Europe It is therefore important how the health care service for headache patients is organised throughout the world Patients seen at headache clinics are more severely affected than those seen in general practice and headache clinics need to be familiar with a long list of relatively rare headache disorders Part of the Frontiers in Headache Research series this volume is the first book to focus specifically on headache clinics their classification and organization their methods of diagnosis and their approaches to multi disciplinary management The clinical features of patients seen in headache clinics are thoroughly discussed The value of a number of diagnostic laboratory techniques including when and how to use neuro imaging is discussed Also a number of more specialised methods employed only in referral headache centres are covered such as nitro glycerine challenge indomethacin test and oxygen breathing The treatment options for severely affected patients are discussed including the possibilities of combining two or more prophylactic medications the use of epidural blood patch and the different methods for discontinuation of medication overuse This volume will be an invaluable resource for neurologists physicians in headache pain clinics and interested general practitioners

Pharmacology of 5-HT₆ receptors, Part I, 2010-12-07 The serotonin 5 HT₆ receptor represents a novel pharmacological target whose impact on physiopathology of CNS functions remains undetermined Some receptor antagonists have been synthesized and they show a modulatory role in learning and memory processes and food intake The pharmacology of 5 HT₆ receptor agonists is still under evaluation However both 5 HT₆

antagonists and agonists seem to exert potential antidepressant activity Recently a second messenger system has been discovered 5 HT₆ receptor function is becoming more and more intriguing Thus the aim of the present book is to try to clarify the pharmacology of 5 HT₆ receptors Written by expert researchers Covers all published literature to date in the field of 5 HT₆ receptors 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 Headache Pathogenesis Jes Olesen, 1997 The contributors to this volume explore the role of several messenger molecules in the pathogenesis of migraine tension type headache and cluster headache Coverage includes extensive studies of these molecules and their receptors in the cranial blood vessels as well as measurements in patients during actual migraine and other headache attacks The findings presented are important to the development of anti migraine drugs targeted to specific receptors Experimental Headache Models Michael A. Moskowitz, 1995 Contains papers from the November 1994 Fifth International Headache Research Seminar in Copenhagen Denmark plus summaries of articles in sections on the general use of models in drug development models currently in use at the preclinical level in migraine research the use of animal experiments to study the neurobiological basis for pain the molecular biology of the 5 HT_{1D} receptor system in vivo models headache models in humans following nitroglycerin or histamine administration and nonmigrainous headaches Annotation copyright by Book News Inc Portland OR **Wall & Melzack's Textbook of Pain** Stephen McMahon, FMedSci, FSB, Martin Koltzenburg, MD, FRCP, Irene Tracey, Dennis C. Turk, PhD, 2013-06-21 2014 BMA Medical Book Awards Highly Commended in Anaesthesia category Apply the latest scientific and clinical advances with Wall Melzack's Textbook of Pain 6th Edition Drs Stephen McMahon Martin Koltzenburg Irene Tracey and Dennis C Turk along with more than 125 other leading authorities present all of the latest knowledge about the genetics neurophysiology psychology and assessment of every type of pain syndrome They also provide practical guidance on the full range of today's pharmacologic interventional electrostimulative physiotherapeutic and psychological management options Benefit from the international multidisciplinary knowledge and experience of a who's who of international authorities in pain medicine neurology neurosurgery neuroscience psychiatry psychology physical medicine and rehabilitation palliative medicine and other relevant fields Access the complete contents online anytime anywhere at www.expertconsult.com Translate scientific findings into clinical practice with updates on the genetics of pain new pharmacologic

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Preventive Pharmacotherapy of Headache Disorders Jes Olesen, Stephen D. Silberstein, Peer Tfelt-Hansen, 2004 Most of the familiar headache drugs are used to stop a headache attack that is already in progress or about to begin However there is now a growing body of research aimed at developing medications that can be taken on a regular basis to prevent headaches from starting These drugs will be targeted at patients whose headaches are frequent or who get their headaches at predictable times This book reviews the potential for prophylactic treatment of headache It provides most of the existing evidence in the field of pharmacoprophylaxis of migraine and other chronic headaches and may thus serve as a platform for new initiatives in the field The book reviews the research into the pharmacological mechanisms involved the classes of drugs in development and the clinical trials methodology The editors have gathered together the leading international experts to produce a book that will appeal neurologists caring for headache patients researchers in the field and those based in the pharmaceutical industry

Ergot Vladimir Kren, Ladislav Cvak, 1999-04-08 This volume provides readers with biotechnological aspects of ergot alkaloid production and genetic and physiological data Toxicology and environmental risks of ergot infection and contamination of food and forage are also detailed

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1992 *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

Reducing the Burden of Headache Jes Olesen, Timothy J. Steiner, Richard B. Lipton, 2003 This is the first book devoted to the study of the social and economic consequences of headache Reducing the Burden of Headache analyses the financial cost of headache diseases the disability and suffering they cause and the impact they have on the quality of life of the sufferers and their families These are issues of major importance migraine appears in the top 20 list of diseases ranked according to years lived with disability Headache in general is thought to account for approximately 20% of all days lost from work Of even greater importance is the impact on everyday life studies

have shown that migraine has a greater impact on the quality of life of sufferers than many other diseases generally considered to be more serious This book describes and analyses the epidemiological data accumulated in the field and suggests guidelines and interventions aimed at improving healthcare for headache Adoption of these suggestions combined with judicious use of existing resources and modern treatment options can lead to great improvements in the lives of headache sufferers world wide This book will be of interest to neurologists general practitioners epidemiologists public health specialists health service managers and all those interested in improving services and outcomes for sufferers of headache

Headache Classification and Epidemiology Jes Olesen,1994 Based on the 4th International Headache Research Seminar this volume begins with two introductory papers Headache Classification and Diagnosis According to the International Headache Society and Clinical Characteristics of Migraine and Episodic Tension Type Headache in Relation to Old and New Diagnostic Criteria followed by six sections devoted to general principles of disease classification and diagnosis the classification and diagnosis of primary headaches the classification and diagnosis of secondary headaches general principles of epidemiology epidemiological studies of headache and sociodemographic and psychosocial factors Each section concludes with a discussion summary Annotation copyright by Book News Inc Portland OR

The Triptans Patrick Humphrey,M. D. Ferrari,Jes Olesen,2001 A new era in the treatment of migraine headache arrived with development of a revolutionary class of drugs known as the triptans The book describes the development of this class of drugs starting with the discovery of sumatriptan covers the pharmacology and the mechanisms of action of the full range of triptans before comparing their clinical efficacy and tolerability Each drug is described by the company who produces it and then reviewed based on experimental and clinical evidence by independent scientists This comprehensive review will provide clinicians with guidance on which triptan to select for which patient The editors have gathered together the leading international experts to produce a book that will appeal to all neurologists and general physicians caring for headache patients as well as those with research interests in the field

Headache Treatment Jes Olesen,Peer Tfelt-Hansen,1997 Cluster Headache and Related Conditions Jes Olesen,Peter J. Goadsby,1999 Cluster headache affects 0 1% of the population and is a severe form of primary headache This volume of *Frontiers in Headache Research* is the only up to date and comprehensive review of the condition and its related disorders The book begins with a discussion of the basic circadian biology of the condition followed by an overview of relevant epidemiological studies Cluster headache is then described in comparison with related disorders including paroxysmal hemicrania SUNCT hemicrania continua and hypnic headache and the system of classification discussed The volume then moves on to look at the wealth of basic research into cluster headache including animal studies work on the autonomic nervous system in man neuropeptide research studies of biological rhythms the associated endocrinology information derived from neuroimaging and the influence of genetic factors The final sections of the book examine acute treatment prophylaxis the potential for surgical treatment and the opportunities for further innovative

therapies The contributing authors are all international specialists in this field Headache Giuseppe Nappi, Michael A. Moskowitz, 2016-02-16 Handbook of Clinical Neurology Headache covers various aspects of headaches It covers up to date information about the cultural developments and the scientific advances in the field of neurological science One of the most frequent symptoms that people encounter is migraine or other type of headaches At least 40% of neurological consultations are headache related With this significant advances in basic and applied brain sciences have emerged in the field of headache related problems Divided into six sections the book discusses the socioeconomic aspects of headaches the contribution of biological sciences to the study of the pathophysiology of headache and the management of headache and other related problems It also deals with headache related issues such as pathogenic chronobiological endocrinological and neuroimaging correlates nosographic i e migraine vertigo and headache in children and treatment related issues The book will serve as a reference for researchers clinical physicians and other readers who want additional knowledge about the clinical features of headaches A comprehensive guide to the advancements made in headache research and medicine including the role of genetics and genomics An exhaustive accounting of cultural developments and scientific advances in headache medicine Critical information on primary and secondary headaches including new therapies prevention techniques and management protocols *Current Catalog* National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965 70

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Five Hydroxytryptamine Mechanisms In Primary Headaches Volume**

In some sort of inundated with displays and the cacophony of instantaneous connection, the profound power and psychological resonance of verbal beauty usually diminish into obscurity, eclipsed by the regular barrage of noise and distractions. Yet, set within the lyrical pages of **Five Hydroxytryptamine Mechanisms In Primary Headaches Volume**, a captivating work of literary brilliance that pulses with fresh feelings, lies an memorable trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this enchanting opus books visitors on a psychological odyssey, delicately revealing the latent possible and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect its fascinating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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web cinderella cinderella a or the little glass slipper is a folk tale with thousands of variants that is told throughout the world
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