

# Spasticity— a topical survey

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# Spasticity A Topical Survey

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## **Spasticity A Topical Survey:**

*Spasticity - a Topical Survey* Walther Birkmayer, 1972      **Local-spinal Therapy of Spasticity** Hermann Müller, Jan Zierski, Richard D. Penn, 2012-12-06 Historical photograph of spinal anaesthesia In 1884 the American neurologist J L Loewen His discovery however marks the beginning by blocking the neural conduction onset of the era of regional anaesthesia It took almost one hundred years until his induction to the hind extremities of a dog by injecting cocaine solution into the lumbar region original idea of local medication of the vertebral interspace was the first to per cord was again reconsidered due to two forms spinal or epidural anaesthesia 1 reasons At that time he was unaware of the local I The discovery of different drug receptors anaesthetic properties of cocaine in the spinal cord made it possible by in covered in the same year by C Koller who intrathecal injection or epidural application if the drug penetrates the dura applied cocaine to the eye of one of his patients 3 and did not intend to introduce to alter nociceptive or motor transmission an anaesthetic procedure Corning's position within the spinal cord many aims was the application of drugs in 2 Implantable devices for long term application proximity of the central nervous system i.e. cation of drugs to specific sites of the spinal cord in order to treat or even heal body including the spinal spaces were developed during the 1970s      **Neurosurgery for Spasticity** Marc P. Sindou, I. Richmond Abbott, Yves

Keravel, 2012-12-06 Spasticity is one of the commonest sequelae of neurological disease and during the last few years many advances have been made in the treatment of this complaint by functional neurosurgery This book will appeal to neurosurgeons orthopaedic surgeons and neurologists amongst others Annals of the Royal College of Surgeons of England

Upper Motor Neurone Syndrome and Spasticity Michael P. Barnes, Garth R. Johnson, 2001-02 This is a thorough practical reference and guide for all health professionals involved in the management of spasticity      Clinical Uses of Botulinum Toxins Anthony B. Ward, Michael P. Barnes, 2007-03-22 Botulinum toxins now play a very significant role in the management of a wide variety of medical conditions from headaches to hypersalivation and from spasticity to sweating In this book a strong international team of experts outline the basic neurochemistry of botulinum toxins and chart the progress of the drug from laboratory to clinic Then individual chapters summarize their use for the main clinical indications in the context of other available treatments This book will be of interest to neuroscientists and practising clinicians working in a wide range of specialities from neurology and dermatology to pediatrics plastic surgery and rehabilitation medicine      *Spasticity* Elie Elovic, MD, 2010-08-31 Spasticity Diagnosis and Management is the first book solely dedicated to the diagnosis and treatment of spasticity This pioneering work defines spasticity in the broad context of Upper Motor Neuron Syndrome and focuses not on a single component but on the entire constellation of conditions that make up the UMNS and often lead to

*Neurological Rehabilitation* Sudha Balakrishnan, Anthony B. Ward, 2013-01-10 This chapter aims to address the questions of the definition and effective management of spasticity in order to assist the reader to recognize assess and treat people with this impairment Spasticity is a physiological consequence of an insult to the brain or spinal cord which can lead to life

threatening disabling and costly consequences It is a common but not inevitable outcome of the upper motor neuron UMN syndrome and is characterized by muscle overactivity and high tone spasms which if left untreated will lead to muscle and soft tissue contracture and limb deformity There have been several attempts to define spasticity The difficulty reflects the complex features of the syndrome The most cited definition is by Lance but does not fulfil all the clinical scenarios seen in clinical practice The term spasticity in the therapeutic world covers the several other features of the UMN syndrome and therefore an all embracing definition is probably required as well Rates for the prevalence of spasticity in different clinical conditions are variable This may be due to the presence of many patients with mild spasticity for whom little or no treatment is required for their condition However it is estimated that 38% of patients following stroke develop a degree of spasticity and about 19% require pharmacological treatment Of these about one third 5% of the total will benefit from botulinum toxin injections for focal problems This chapter will inform the reader about the pathophysiology of spasticity but also includes the practicalities and principles of management the delivery of its longer term treatments and the utilization and measurement of relevant outcomes

*The Origin and Treatment of Spasticity* R. Benecke, Murat Emre, Robert A. Davidoff, 1990 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1973 First multi year cumulation covers six years 1965 70 **Spasticity, Disordered Motor Control** Robert G. Feldman, Robert R. Young, Werner Paul Koella, 1980

**Functional and Stereotactic Neurosurgery** E.I. Kandel, 2012-12-06 Soon after neurosurgery had advanced past the stage of that older neurosurgeons will consider their cra removing lesions on the surface of the brain it became notomies quite adequate for the relief of many neu apparent that subcortical diseased tissue could not be rological disorders that Professor Kandel shows so excised safely by the usual surgical techniques because clearly to be amenable to stereotactic intervention of the risk of damaging overlying normal structures there are many lesions that undoubtedly can be reached Various means of reaching deep seated lesions were more easily and with less risk to life and limb by ster devised most of which attempted to approach the eotactic than by open procedures pathological tissue through silent areas of the brain This book is not just a description of operative However these operations often resulted in serious procedures although it does give clear accounts of neurological deficits Spiegel and Wycis s modifica surgical techniques It presents the postoperative histo tion of the Horsley Clarke apparatus to reach targets ries of patients who have been cured or markedly re deep in the human brain introduced a new approach to lieved of longstanding afflictions these persons have subcortical surgery True as Professor Edward Kandel been followed for 10 to 15 or more years so that the relates Russian surgeons had pioneered in the field results may be considered more or less permanent **Treating Spasticity** C. David Marsden, International Medical Society of Motor Disturbances. Congress, 1989 Hypothalamic Hormones Choh Hao Li, 2012-12-02 Hypothalamic Hormones is a collection of papers that elucidates the various aspects chemical properties effects and history of hypothalamic hormones The book is composed of five chapters on the detailed study of hypothalamic hormones Chapter 1 is

about a review of basic and clinical studies of corticotropin releasing factor CRF thyrotropin releasing hormone TRH prolactin releasing factor prolactin release inhibiting factor factors affecting the release of melanotropin luteinizing hormone release hormone LHRH growth hormone release factor and somatostatin The second chapter is a discussion on the various aspects of luteinizing hormone release hormone LHRH Subsequent chapters are concerned with the study of factors that control the secretion of growth hormone with particular emphasis on brain neurotransmitters the mechanism of action of hypothalamic hormones and effects of androgens estrogens and other peripheral hormones on the hypothalamus function The last chapter gives a history of neurosecretion and neuroendocrinology Biochemists physicians pharmacologists endocrinologists researchers and students in the medical field will find this book invaluable Advances and Technical Standards in Neurosurgery L. Symon,J. Brihaye,F. Cohadon,B. Guidetti,F. Loew,J. D. Miller,H. Nornes,E. Pásztor,B. Pertuiset,M. G. Ya?argil,2012-12-06 As an addition to the European postgraduate training system for young neurosurgeons we began to publish in 1974 this series devoted to Advances and Technical Standards in Neurosurgery which was later sponsored by the European Association of Neurosurgical Societies The fact that the English language is well on the way to becoming the international medium at European scientific conferences is a great asset in terms of mutual understanding Therefore we have decided to publish all contributions in English regardless of the native language of the authors All contributions are submitted to the entire editorial board before publication of any volume Our series is not intended to compete with the publications of original scientific papers in other neurosurgical journals Our intention is rather to present fields of neurosurgery and related areas in which important recent advances have been made The contributions are written by specialists in the given fields and constitute the first part of each volume In the second part of each volume we publish detailed descriptions of standard operative procedures furnished by experienced clinicians in these articles the authors describe the techniques they employ and explain the advantages difficulties and risks involved in the various procedures This part is intended primarily to assist young neurosurgeons in their post graduate training However we are convinced that it will also be useful to experienced fully trained neurosurgeons Drugs for the Control of Epilepsy Carl L. Faingold,Gerhard H. Fromm,2019-06-04 Originally published in 1991 This book brings together the ideas of an international group of experts on clinical and experimental epilepsy These authors consider how antiepileptic drugs may act on elements of neuronal networks to reduce seizure incidence and severity The book addresses such topics as the four general classes of anticonvulsant drug mechanisms major epilepsy models the proposed mechanisms of action of major antiepileptic drugs and the clinical use of antiepileptic drugs in the treatment of various forms of human epilepsy This volume is special for its focus on the neuronal network approach to epilepsy as well as for its comprehensive review and integration of human and animal data Neurologists pharmacologists psychiatrists and other investigators actively working on epilepsy research will find this book to be a useful thought provoking reference volume **Neurotransmitters And Anterior Pituitary Function**

Giuseppe Nistico, Umberto Scapagnini, 2012-12-02 Neurotransmitters and Anterior Pituitary Function discusses research findings on neurotransmitter neurohormone interactions in the control of the anterior pituitary. This book contains five chapters that specifically tackle the most salient constituents of the neural endocrine communication system in mammals. This book deals first with the biochemistry, physiology and pharmacology of proved or putative neurotransmitters as well as some of the techniques used for determining their synthesis or turnover in the central nervous system (CNS) of experimental animals or in man. These topics are followed by a discussion on the principal functions of the most well known neurotransmitter-containing neurons based on sophisticated techniques for neurotransmitter measurements. A chapter highlights both traditional and a vast series of developed drugs that affect both neurotransmitter and neuroendocrine function. Discussions then shift to the experimental evidence on pituitary function control by the brain through releasing and inhibiting hormones secreted by hypothalamic neuroendocrine cells, the chemical isolation, identification and synthesis of hypothalamic neurohormones and concepts of their mechanism of action at the level of the pituitary cells. This text further explores the role of specific brain neurotransmitters in controlling pituitary hormone secretions in both experimental animals and in man and the possible CNS sites where neurotransmitters and neurohormones interact for the control of anterior pituitary secretion. The concluding chapter describes the actual or potential application of neuropharmacologic approaches to the diagnosis of and therapy for specific disorders of neuroendocrine function. Clinical neuroendocrinologists and researchers and students in neuroendocrinology, neurobiology, neuropharmacology, neurophysiology and psychiatry will find this book invaluable.

*Muscles, Masses and Motion* E. Geoffrey Walsh, Ewart Geoffrey Walsh, 1992 This book reviews current understanding of normal muscle tone and how it differs in spastic, thixotropic and hypotonic patients. The book contains practical advice on measuring the postural system and will be of interest to pediatricians and also to physiologists involved in investigating muscle tone.

**Glutamate and GABA Receptors and Transporters** Jan Egebjerg, Arne Schousboe, Povl Krogsgaard-Larsen, 2001-10-04 The ubiquitous presence of glutamate and GABA receptors in the nervous system makes these receptor systems pivotal to our understanding of neurotransmission. Cloning of the molecular components of these receptor systems has provided insights to the selectivity of many drugs and detailed characterisation at the molecular level is emerging. Moreover,

**The GABA Receptors** S. J. Enna, Norman Bowery, 2013-03-14 In this long-awaited 2nd edition of a classic book, leading neuroscientists critically review the latest advances made in our understanding of the fundamental molecular, biochemical, behavioral and pharmacological properties of GABA receptors. The distinguished contributors clarify the approaches being taken to identify and develop new therapeutic agents for such neurological and psychiatric disorders as epilepsy, memory loss, affective illnesses and psychosis. They also examine the therapeutic potential that remains in the cloning and expression of the GABA transporter and in developing additional agents capable of regulating GABA receptor function. The book will play a key role in further expanding the list of drugs that interact with the GABA neurotransmitter.

system      Pharmacology and Therapeutics in the New Millennium S.K. Gupta, 2001-09-30 During the past several years tremendous advancements have been made in the field of pharmacology and therapeutics While new therapeutic strategies are coming up old ones are being improved by modifications or being replaced with newer ones The major topics covered in this book include endothelins current topics in cardiovascular research molecular pharmacology recent developments in cancer research antioxidants oxidants and human disease herbal drugs developments in neuropharmacology myelin biology and demyelinating disease pharmacovigilance role of cytokines in health and disease ocular pharmacology detoxification of xenobiotics biotransformation and transport and several other topics of current interest The aim of this book is to fulfill the needs of the basic and clinical researchers as well as the students particularly related to areas of current interest in pharmacology and therapeutics

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