

# Lance, 1980

“spasticity is a motor disorder characterized by a **velocity dependent increase in tonic stretch reflexes** (muscle tone) with exaggerated tendon jerks, resulting from hyper-excitability of the stretch reflexes, as one component of the upper motor neuron syndrome.”

Lance, J. (1980). Pathophysiology of spasticity and clinical experience with baclofen. In R. Feldman, R. Young & W. Koella (Eds.), *Spasticity: disordered motor control* (485-495). Chicago: Year book medical publishers.

# Spasticity Disordered Motor Control

**Robert G. Feldman, Robert R.  
Young, Werner Paul Koella**



## **Spasticity Disordered Motor Control:**

Spasticity, Disordered Motor Control Robert G. Feldman, Robert R. Young, Werner Paul Koella, 1980      Spasticity Feldman, 1980-08-01      **Functional Electrical Stimulation** Alojz R. Kralj, Tadej Bajd, 1989-01-31 This reference text covers the fundamental knowledge and principles of functional electrical stimulation FES as applied to the spinal cord injured SCI patient The principles of FES application and basic biomechanical issues related to FES in SCI are stressed The fundamentals regarding patient selection criteria indication contraindications and descriptions of procedures are clearly presented Also included are the fundamentals and rationale of gait restoration with patient selection control strategies and the synthesis of gait sequences with trends in the field Each chapter contains numerous references to the FES literature for the reader to easily evaluate and extend his knowledge in the area of interest Biomedical and rehabilitation engineering professionals and researchers for medical doctors physical therapists and orthotists will find this publication invaluable      **A Physiological Approach to Clinical Neurology** James W. Lance, James G. McLeod, 2013-10-22 A Physiological Approach to Clinical Neurology Third Edition is a 13 chapter book that first describes pain and other sensations weakness neuromuscular disorders spinal reflexes as well as muscle tone and movement This text also explores the disordered muscle tone a term used to describe the sensation of resistance felt by the clinician as he manipulates a joint through a range of movement with the subject attempting to relax Other chapters discuss the basal ganglia and their disorders and the cerebellum and its disorders The anatomy and physiology of the special senses cranial nerves and autonomic nervous system are also explained The last three chapters elucidate consciousness unconsciousness epilepsy and the relationship between brain and mind This book will be useful to those in the field of clinical neurology      **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      **Spasticity, Second Edition** Allison Brashear, 2015-12-09 Since publication of the first edition Spasticity Diagnosis and Management has been the defining reference and go to source for physicians therapists and other healthcare providers who care for patients with spasticity For this new updated edition Dr Brashear and a diverse team of specialists have come together to integrate new research clinical trials measurement tools therapies and other recent advances that reflect this evolving field The book is organized into four sections each of which covers a broad scope of material The first is a general overview of spasticity and its effects on movement in patients Other chapters cover epidemiology and ancillary findings commonly associated with spasticity Part II details assessment tools and measurements treatment goals and how to aim for realistic outcomes Part III outlines various treatment modalities including heavily updated chapters on the use of botulinum toxin in the upper and lower extremities guidance techniques for injections intrathecal baclofen neuromodulation surgery physical therapy and more The last section which contains several new chapters discusses evaluation of outcomes and management of patients with stroke traumatic brain injury spinal cord injuries

multiple sclerosis cerebral palsy and cancer followed by chapters on spasticity management in long term care facilities and economic considerations This book remains the most comprehensive guide to diagnosis and management of spasticity in adults and children and the revised second edition will continue to serve as an invaluable resource for professionals in any discipline who strive to provide quality care to spasticity patients

**Key Features** Revised edition of the premier clinical reference on spasticity Incorporates the latest advances in assessment and treatment Contains six entirely new chapters highlighting key topics including Tardieu scale and other measurement tools ultrasound guidance for botulinum toxin management spasticity in special populations emerging therapies and economic impact More than 200 figures and 70 tables accompany the updated text

**Brain Injury Medicine** Nathan D. Zasler, Douglas I. Katz, Ross Zafonte, DO, 2007 Covers the full continuum from early diagnosis and evaluation through rehabilitation post acute care and community re entry Includes assessment and treatment epidemiology pathophysiology neuroanatomy neuroimaging the neuroscientific basis for rehabilitation ethical and medicolegal issues life care planning and more

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

Motor System Disorders, Part II David S. Younger, 2023-08-22 This comprehensive review of research and best practice clinical management of spinal cord neurodegenerative and cerebral disorders is intended for both researchers and clinicians Encompassing hereditary and acquired disorders from disease and accident the book explores motor control disorders associated with stroke dementia seizure encephalitis and more Covering disorders of both children and adults the book discusses the latest advances in treatments related to neuroplasticity neural tissue transplantation and immunotherapy Summarizes assessment disease course and best practice treatment Includes hereditary disorders and disorders from disease or accident Discusses advances in neuroplasticity tissue transplantation immunotherapy and other treatments Reviews effects of dementia stroke seizure encephalitis cancer and more

*Spasticity Management* Valerie Stevenson, Louise Jarrett, 2006-07-26 Spasticity is a common symptom seen in many neurological conditions notably head injury spinal cord injury stroke cerebral palsy and multiple sclerosis It is also the dominant feature in a number of rarer conditions such as tropical and hereditary spastic paraparesis HSP The fact that it is relevant to many chronic neurological conditions and that the absence of multi disciplinary input can result in progressive disability ensures spasticity management is a prominent feature in the current National Service Framework NSF for long term neurological conditions In the future more long term care for such patients will be done in primary care and the community It is therefore essential that a multi disciplinary approach is used with successful liaison between secondary primary and social care Optimum management of spasticity is dependent on an understanding of its underlying physiology an awareness of its natural history an appreciation of the impact on the patient

and a comprehensive approach to minimising that impact which is both multi disciplinary and consistent over time. Regrettably these essential requirements are rarely met and consequently inadequately managed spasticity results in a range of painful and disabling sequelae which with the right approach are for the most part preventable. Although there are several excellent publications looking at this area none are a truly practical guide relevant to all members of the multi disciplinary team involved in spasticity management. Anyone who has been involved in setting up a new service knows how difficult and how protracted a process this can be and if it has been done before why reinvent it. The basis of this manual is to collect together the experience and knowledge of such a team who have worked in this area for 10 years now. It pulls together all areas including how to set up and develop a service as well as useful management strategies. On a practical note it includes complete copies of all of our patient information assessment proformas protocols for different interventions nursing care plans and an integrated care pathway for outpatient spasticity management both as hard copy but also on CD ROM to aid in reproduction. These protocols are of course specific to our team but could easily be adapted for use in other centres. We are not saying this is the right or only way to run a spasticity service and there is certainly room for improvement but we hope by sharing our experience we can help others to develop their own service thus improving management for all individuals with spasticity.

**Spasticity Management** Valerie L. Stevenson, Louise Jarrett, 2016-04-27 Spasticity is a common symptom that arises in a wide range of neurological conditions. Unfortunately a poor understanding and inadequate management of spasticity often results in it having a greater impact on patients than necessary. Using a multidisciplinary approach *Spasticity Management: A Practical Multidisciplinary Guide* provides the essential information. Alfred F. Thilmann, David J. Burke, William Z. Rymer, 2012-12-06 Over the past 10-20 years there has been an explosion of work on the disturbance of motor control that is manifested as spasticity. This work has been based on new insights from animal experiments into the basis of normal motor control and the development of experimental techniques that could be used in patients with neurological disturbances. For this reason on the initiative of Alfred Thilmann the editors of this volume organized a workshop on spasticity held in Essen Germany in November 1992. The intention of the meeting was to bring together leading scientists in an atmosphere that would generate discussion and hopefully consensus and ideas for future work. The attendance was restricted and deliberately selective with a mix of basic scientists, clinical scientists and practicing clinicians. The product of their presentations and deliberations is this volume. The book is organized in the same sequence as the workshop so that the discussion sessions could be summarized by the appropriate chairman.

*McGlamry's Comprehensive Textbook of Foot and Ankle Surgery* The Podiatry Institute, Joe T. Southerland, Jeffrey S. Boberg, Michael S. Downey, Aprajita Nakra, Linnie V. Rabjohn, 2012-10-31 The definitive text in its field *McGlamry's Comprehensive Textbook of Foot and Ankle Surgery* is the ideal reference for the podiatric or orthopedic surgeon, resident or student preparing for certification exams. From perioperative management to postoperative complications and considerations, this must-have resource prepares you for

a full range of podiatric surgeries and procedures ranging from routine trauma of the foot and leg to compound deformities enabling you to face any challenge with confidence This is the tablet version of McGlamry s Comprehensive Textbook of Foot and Ankle Surgery which does not include access to the supplemental content mentioned in the text

*Brain Injury Medicine, Third Edition* Nathan D. Zasler, Douglas I. Katz, Ross D. Zafonte, 2021-09-01 This updated textbook was much needed as there has been increased attention in recent years toward brain injuries The book provides updated guidelines and clinical practice recommendations that support the intended audience of trainees and current practitioners This update makes it the current standard text for any brain injury specialist Doody s Review Service 4 stars This revised and greatly expanded Third Edition of Brain Injury Medicine continues its reputation as the key core textbook in the field bringing together evidence based medicine and years of collective author clinical experience in a clear and comprehensive guide for brain injury professionals Universally praised as the gold standard text and go to clinical reference the book covers the entire continuum of care from early diagnosis and assessment through acute management rehabilitation associated medical and quality of life issues and functional outcomes With 12 new chapters and expanded coverage in key areas of pathobiology and neuro recovery special populations sport concussion disorders of consciousness neuropharmacology and more this state of the science resource promotes a multi disciplinary approach to a complex condition with consideration of emerging topics and the latest clinical advances Written by over 200 experts from all involved disciplines the text runs the full gamut of practice of brain injury medicine including principles of public health and research biomechanics and neural recovery neuroimaging and neurodiagnostic testing sport and military prognosis and outcome acute care treatment of special populations neurologic and other medical complications post injury motor and musculoskeletal problems post trauma pain disorders cognitive and behavioral problems functional mobility neuropharmacology and alternative treatments community reentry and medicolegal and ethical issues Unique in its scope of topics relevant to professionals working with patients with brain injury this third edition offers the most complete and contemporary review of clinical practice standards in the field

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**Ultrasound-Guided Chemodenervation Procedures** Katharine E. Alter, Mark Hallett, Barbara Karp, Codrin Lungu, 2012-12-24 Ultrasound Guided Chemodenervation Procedures provides a comprehensive

multimedia approach to neurotoxin therapy using ultrasound This combined text atlas offers a complete review of toxin therapy both current indications and emerging applications as well as a detailed review of ultrasound technology and ultrasound guidance techniques for botulinum toxin injections and nerve blocks The work also includes a detailed anatomic and pictorial atlas which will be invaluable to clinicians performing procedures with or without ultrasound guidance The text section of the book is a reference manual covering conditions and indications chemodenervation agents and ultrasound basics including essential physics machine settings artifacts scanning techniques and procedural guidance techniques The illustrated atlas sections offer a stunning visual roadmap for understanding ultrasound anatomy localizing muscles and safely and successfully performing chemodenervation procedures Features of Ultrasound Guided Chemodenervation Procedures include More than 1 300 clinical pictures anatomical drawings and ultrasound stills Practical yet comprehensive an indispensable print and electronic reference for clinicians Review of ultrasound technology techniques and clinical applications for chemodenervation Review of clinical indications and emerging uses of botulinum toxin

**Evidence-based Clinical Chinese Medicine - Volume 13: Post-stroke Spasticity** Claire Shuiqing Zhang, Shaonan Liu, 2020-07-17 The thirteen volume in the Evidence based Clinical Chinese Medicine series is a must read for Chinese medicine practitioners interested in neurology or rehabilitation Using a whole evidence approach this book aims to provide an analysis of the management of post stroke spasticity with Chinese and integrative medicine This book describes the understanding and management of post stroke spasticity with conventional medicine and Chinese medicine Chinese medicine treatments used in past eras are analysed through data mining of classical Chinese medicine books Several treatments are identified that are still used in contemporary clinical practice Attention is then turned to evaluating the current state of evidence from clinical studies using an evidence based medicine approach Scientific techniques are employed to evaluate the results from studies of Chinese herbal medicine acupuncture and other Chinese medicine therapies The findings from these reviews are discussed in terms of the implications for clinical practice and research Chinese medicine practitioners and students can use this book as a desktop reference to support clinical decision making Having ready access to the current state of evidence for herbal formulas and acupuncture treatments allows practitioners to be confident in providing evidence based health care This book provides With this information provided in an easy to use reference practitioners can focus on giving high quality care supported by the best available evidence

*A Dictionary of Neurological Signs* A.J. Larner, 2007-05-08 Neurology has always been a discipline in which careful physical examination is paramount The rich vocabulary of neurology replete with eponyms attests to this historically The decline in the importance of the examination has long been predicted with the advent of more detailed neuroimaging However neuroimaging has often provided a surfeit of information from which salient features have to be identified dependent upon the neurological examination A dictionary of neurological signs has a secure future A dictionary should be informative but unless it is unwieldy it cannot be comprehensive nor is that claimed here Andrew Larner has

decided sensibly to include key features of the history as well as the examination There is no doubt that some features of the history can strike one with the force of a physical sign There are entries for palinopsia and environmental tilt both of which can only be elicited from the history and yet which have considerable significance There is also an entry for the head turning sign observed during the history taking itself as well as the majority of entries relating to details of the physical examination This book is directed to students and will be valuable to medical students trainee neurologists and professions allied to medicine Neurologists often speak in shorthand and so entries such as absence and freezing are sensible and helpful

*Handbook of Spasticity* Monica Verduzco-Gutierrez, Nicholas C. Ketchum, 2023-07-24 Concise and accessible Handbook of Spasticity is the essential reference for residents and practicing physicians in the fields of PM R and neurology It allows readers to learn the fundamentals of spasticity management while also adding important spasticity concepts to their day to day practice This high yield resource provides current evidence based treatment paradigms and discusses advances in the field to address assessment treatment options and disease management in adult and pediatric patients Written by experts from institutions around the world this valuable handbook fuses the fundamentals of spasticity with a case based approach to enhance learning for those early into their career as well as practicing physiatrists neurologists nurses physician assistants and therapists who care for patients with spasticity Assessment and evaluation measures are detailed focusing on measurements and scales gait assessment and techniques for setting appropriate goals A wide variety of treatment options available for spasticity patients are explored including physical therapy pharmacologic and non pharmacologic treatments emerging technologies toxins surgical options and more Complete with accompanying online videos ultrasound and anatomical figures and toxin dosing tables Handbook of Spasticity is the premier one stop shop resource on how to improve spasticity management Key Features Succinctly covers key spasticity definitions assessment scales treatment options and disease management for a wide range of conditions Provides the latest guidelines and evidence based practices in the field Features contributions from leading clinicians and educators in physiatry and neurology Case based chapters and accompanying online video content showcase patient assessment in real world settings Includes images for ultrasound guidance and anatomical correlates and tables with dosing guidance for toxins

*Handbook of Spinal Cord Injuries and Related Disorders* Hyun-Yoon Ko, Sungchul Huh, 2021-10-22 This easy to use handbook is designed to assist in the evaluation and management of spinal cord injuries and the diverse related disorders and conditions Spinal cord injuries can cause abnormalities in all body systems due to dysfunction of the somatic motor and sensory systems and damage to the autonomic nerve system The latter gives rise to respiratory and cardiac problems temperature regulation disorders endocrine system disorders and many associated metabolic disorders Other potential consequences of spinal cord injuries include pressure injuries and various disabilities and obstacles ranging from physical limitations to social embarrassment This handbook offers extensive guidance on medical management in different scenarios from the acute phase to long term care with a particular



focus on information of importance for the solution of clinical problems commonly encountered in daily practice It will be ideal for practitioners in rehabilitation medicine neurosurgery orthopedics neurology and other relevant specialties that deal with patients with spinal cord injuries      *Neuromechanical Property Identification in Spastic Muscles: Perspectives for Instrumented Assessment, Modeling and Intervention Evaluation* Ruoli Wang,Elena Marie Gutierrez Farewik,Le Li,Lynn Bar-On,Ping Zhou,2021-08-03

## **Spasticity Disordered Motor Control** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Spasticity Disordered Motor Control**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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