

Upper Motor Neuron Functions And Dysfunctions

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Neurolaryngology - Christian Sittel 2017-10-30

This book, endorsed by the European Laryngological Society, is a comprehensive guide to key topics in neurolaryngology, which enables readers to quickly identify and implement solutions in concrete situations likely to arise in everyday clinical practice. It includes detailed information on conditions such as vocal cord paresis/paralysis, laryngeal dystonia, and upper motor neuron disorders and offers clear advice on imaging and assessment, highlighting the role and performance of electromyography. Treatment options are extensively described, and there are individual chapters on functional therapy, botulinum toxin injection, the full range of phonosurgery options (including transoral endoscopic techniques, office-based phonosurgery, framework surgery, and laryngeal reinnervation), and laryngeal transplantation. With numerous accompanying videos, the book is a valuable resource for otorhinolaryngologists, speech pathologists and neurologists.

Motor Neuron Disease in Adults - Mark Bromberg 2014-10-02

Motor Neuron Disease in Adults reviews new information as it applies to all aspects of motor neuron disease (ALS, PLS, PMA). The choice of articles is for those that use evidence-based methods to ensure that the new information is solid and advances the topic or issue. The book can be used by anyone who provides any type of care to ALS patients. In particular, neurologists will find the latest information on diagnosis and management, as well as new information on genetics and frontotemporal lobe involvement. Allied health providers will find useful information for their discipline. Patients will also find both specific and general information to help understand what they are experiencing and how to help manage their symptoms.

Neuromuscular Disorders - Rabi Tawil 2011-09-07

A new addition to the Neurology in Practice series, Neuromuscular Disorders provides a clinical guide to the challenging diagnosis and management of neuromuscular disorders. As a part of the series, various feature boxes are highlighted throughout. "Tips and Tricks" give suggestions on how to improve outcomes through practical technique or patient questioning. In addition, "Caution" warning boxes supply helpful advice on how to avoid problems and 'Science Revisited' boxes offer quick reminders of the basic science principles necessary for understanding the presented concepts.

Frontal Lobe Function and Dysfunction - Harvey S. Levin 1991

Recent technical advances have made it possible to trace the cognitive and behavioural functions of the frontal lobes of the brain more precisely. This text aims to provide a reference source on this region of the brain and its role in cognition, behaviour and clinical disorders. [Ed.].

Anatomy & Physiology - 2016

Clinical Pediatric Urology - A. Barry Belman 2001-11-15

The fourth edition of this internationally acclaimed, seminal textbook on the subject of clinical pediatric urology is completely updated. World-renowned experts in the field present state-of-the-art developments in all areas of clinical pediatric urology, from diagnosis to treatment and from theory to practice. Clinical Pediatric Urology is clinical in orientation and practical in presentation, covering every illness, diagnostic method and appropriate treatment in pediatric urology from the embryo onwards. Each chapter is lavishly illustrated with full color photographs and medical artwork. Tables, graphs and charts lend further support to the detailed and comprehensive text, all in a single, easily accessed volume. This is a useful and informative reference for students and specialists alike.

Dysphagia E-Book - Michael E. Groher 2009-10-28

Develop the understanding and clinical reasoning skills you'll need to confidently manage dysphagia in professional practice! This logically organized, evidence-based resource reflects the latest advancements in dysphagia in an approachable, student-friendly manner to help you

master the clinical evaluation and diagnostic decision-making processes. Realistic case scenarios, detailed review questions, and up-to-date coverage of current testing procedures and issues in pediatric development prepare you for the conditions you'll face in the clinical setting and provide an unparalleled foundation for professional success. Comprehensive coverage addresses the full spectrum of dysphagia to strengthen your clinical evaluation and diagnostic decision-making skills. Logical, user-friendly organization incorporates chapter outlines, learning objectives, case histories, and chapter summaries to reinforce understanding and create a more efficient learning experience. Clinically relevant case examples and critical thinking questions throughout the text help you prepare for the clinical setting and strengthen your decision-making skills. Companion Evolve Resources website clarifies key diagnostic procedures with detailed video clips.

Brunner & Suddarth's Textbook of Medical-surgical Nursing - Suzanne C. O'Connell Smeltzer 2010

Preparing students for successful NCLEX results and strong futures as nurses in today's world. Now in its 12th edition, Brunner and Suddarth's Textbook of Medical-Surgical Nursing is designed to assist nurses in preparing for their roles and responsibilities in the medical-surgical setting and for success on the NCLEX. In the latest edition, the resource suite is complete with a robust set of premium and included ancillaries such as simulation support, adaptive testing, and a variety of digital resources helping prepare today's students for success. This leading textbook focuses on physiological, pathophysiological, and psychosocial concepts as they relate to nursing care. Brunner is known for its strong Nursing Process focus and its readability. This edition retains these strengths and incorporates enhanced visual appeal and better portability for students. Online Tutoring powered by Smarthinking--Free online tutoring, powered by Smarthinking, gives students access to expert nursing and allied health science educators whose mission, like yours, is to achieve success. Students can access live tutoring support, critiques of written work, and other valuable tools.

Physical Dysfunction Practice Skills for the Occupational Therapy Assistant - E-Book - Mary Beth Early 2013-08-07

Covering the scope, theory, and approaches to the practice of occupational therapy, Physical Dysfunction Practice Skills for the Occupational Therapy Assistant, 3rd Edition prepares you to care for adults who have physical disabilities. It takes a client-centered approach, following the latest OT Practice framework as it defines your role as an OTA in physical dysfunction practice. New to this edition is coverage of polytrauma, advances in prosthetics and assistive technologies, and assessment and interventions of traumatic brain injury problems related to cognitive and visual perception. Written by respected educator Mary Beth Early, Physical Dysfunction Practice Skills for the Occupational Therapy Assistant helps you develop skills in the assessment of client factors, intervention principles, and clinical reasoning. Case studies offer snapshots of real-life situations and solutions, with many threaded throughout an entire chapter. A client-centered approach allows you to include the client when making decisions about planning and treatment, using the terminology set forth by the 2008 Occupational Therapy Practice Framework. Evidence-based content includes clinical trials and outcome studies, especially those relating to intervention. Key terms, chapter outlines, and chapter objectives introduce the essential information in each chapter. Reading guide questions and summaries in each chapter make it easier to measure your comprehension of the material. Information on prevention is incorporated throughout the book, especially in the Habits on Health and Wellness chapter. Cultural diversity/sensitivity information helps you learn about the beliefs and customs of other cultures so you can provide appropriate care. An Evolve companion website reinforces learning with resources such as review questions, forms for practice, crossword puzzles, and other learning

activities. New content on the latest advances in OT assessment and intervention includes prosthetics and assistive technologies, and updated assessment and interventions of TBI (traumatic brain injury) problems related to cognitive and visual perception.

Brocklehurst's Textbook of Geriatric Medicine and Gerontology E-Book - Howard M. Fillit 2010-05-10

Popular with generations of practitioners, Brocklehurst's Textbook of Geriatric Medicine and Gerontology has been the definitive reference of choice in the field of geriatric care. The new 7th Edition, by Howard M. Fillit, MD, Kenneth Rockwood, MD, and Kenneth Woodhouse, carries on this tradition with an increased clinical focus and updated coverage to help you meet the unique challenges posed by this growing patient population. Consistent discussions of clinical manifestations, diagnosis, prevention, treatment, and more make reference quick and easy, while over 255 illustrations compliment the text to help you find what you need on a given condition. Examples of the latest imaging studies depict the effects of aging on the brain, and new algorithms further streamline decision making. Emphasizes the clinical relevance of the latest scientific findings to help you easily apply the material to everyday practice. Features consistent discussions of clinical manifestations, diagnosis, prevention, treatment, and more that make reference quick and easy. Includes over 255 illustrations—including algorithms, photographs, and tables—that compliment the text to help you find what you need on a given condition. Provides summary boxes at the end of each chapter that highlight important points. Features the work of an expert author team, now led by Dr. Howard M. Fillit who provides an American perspective to complement the book's traditional wealth of British expertise. Includes an expanded use of algorithms to streamline decision making. Presents more color images in the section on aging skin, offering a real-life perspective of conditions for enhanced diagnostic accuracy. Includes examples of the latest imaging studies to help you detect and classify changes to the brain during aging. Offers Grade A evidence-based references keyed to the relevant text.

Motor Neuron Disease, An Issue of Neurologic Clinics, - Richard J. Barohn 2016-01-07

Dr. Richard Barohn and Dr. Mazen Dimachkie lead this publication on Motor Neuron Disease. Focus is on ALS, with inclusion of primary lateral sclerosis, primary muscular atrophy, leg amyotrophic diplegia, brachial amyotrophic diplegia, and isolate bulbar ALS. Among the topics presented are. Patterns of weakness, classification of motor neuron disease & clinical diagnosis of sporadic ALS; Potential environmental factors in ALS; Neuropathology; Spinal muscular atrophy; Complementary and alternative therapies in ALS frontotemporal dysfunction and dementia in ALS; Symptoms management and end of life care; Research approaches to slowing progression of ALS; Familial ALS; Kennedy disease and more. Information in this issue presents: Description of the problem (Incidence, Prevalence, Severity, Natural history); 2. Review of pertinent data; Controversial areas discussing aspects such as areas of practice for which there are disagreements and why? What are the arguments and counter arguments and what data support them?; Conclusions using levels of clinical evidence that support or refute an intervention. Procedural steps are provided for diagnostic and treatment discussions along with clinical cases.

Motor Neuron Disease Research Progress - Raffaele L. Mancini 2008

The motor neuron diseases (or motor neuron diseases) (MND) are a group of progressive neurological disorders that destroy motor neurons, the cells that control voluntary muscle activity such as speaking, walking, breathing, and swallowing. Neurological examination presents specific signs associated with upper and lower motor neuron degeneration. Signs of upper motor neuron damage include spasticity, brisk reflexes and the Babinski sign. Signs of lower motor neuron damage include weakness and muscle atrophy. Every muscle group in the body requires both upper and lower motor neurons to function. It is a common misconception that "upper" motor neurons control the arms, while "lower" motor neurons control the legs. The signs described above can occur in any muscle group, including the arms, legs, torso, and bulbar region. Symptoms usually present between the ages of 50-70, and include progressive weakness, muscle wasting, and muscle fasciculations; spasticity or stiffness in the arms and legs; and overactive tendon reflexes. Patients may present with symptoms as diverse as a dragging foot, unilateral muscle wasting in the hands, or slurred speech. This new book presents the latest research from around the globe.

Primary Progressive Multiple Sclerosis - M. Filippi 2012-12-06

"Why are there no effective treatments for my condition? Why do researchers exclude patients with primary progressive multiple sclerosis

from enrolling in clinical trials? Please let me know if you hear of studies that I might be allowed to enter or treatments that I could try for my condition. " Thus, in recent years, the sad lament of the patient with primary progressive MS (PPMS). This variant, often in the guise of a chronic progressive myelopathy or, less commonly, progressive cerebellar or bulbar dysfunction, usually responds poorly to corticosteroids and rarely seems to benefit to a significant degree from intensive immunosuppressive treatments. In recent years, most randomized clinical trials have excluded PPMS patients on two counts. Clinical worsening develops slowly in PPMS and may not be recognized during the course of a 2-or 3-year trial even in untreated control patients. This factor alone adds to the potential for a type 2 error or, at the very least, inflates the sample size and duration of the trial. In addition, there is mounting evidence that progressive axonal degeneration and neuronal loss (rather than active, recurrent inflammation) may be important components of the pathology in this form of the disease. Although contemporary trials are evaluating whether PPMS patients may benefit from treatment with the α -interferons and glatiramer acetate, preliminary, uncontrolled clinical experience suggests that the results may not be dramatic.

The Management of Motor Neurone Disease - George M. Cochrane 1987

Nerve Disease ALS and Gradual Loss of Muscle Function - Mary E. Miller 2016-10-14

Amyotrophic lateral sclerosis, ALS, is a common form of motor neuron disease that involves a loss of function in upper and lower motor neurons. ALS causes a progressive loss of muscle function that frequently initiates in the limbs, called limb-onset ALS, or initiates in facial muscles, called bulbar-onset ALS. This book describes the current understanding of ALS symptoms, diagnosis, causes, and treatments. Initial symptoms vary in type of muscle dysfunction, intensity of symptoms, and speed of disease progression. Diagnosis requires loss of function in both upper and lower motor neurons for limb- and bulbar-onset ALS, distinguishing ALS from other neuromuscular diseases. Although no cause or initial trigger has been determined for ALS, eventually both limb and bulbar muscles will show dysfunction as the disease progresses. In later stages of the disease, muscle dysfunction typically leads to respiratory failure and death. Management of neurotransmitter levels in patients can prolong life by months, but no cure exists for the disease. Other treatments exist that can help patients manage muscle weakness or spasms as the disease progresses. The book concludes by considering future detection, treatment, and diagnostic approaches with the goal of preventing disease initiation or progression.

Electromyography in CNS Disorders - Bhagwan T. Shahani 2014-03-20

Electro-Myography in CNS Disorders: Central EMG presents an extensive examination of the application of clinical neurophysiological studies using nerve conduction techniques to analyze the operation of the Central Nervous System. It discusses the principles behind the concept of central EMG. It addresses studies made in nerve conduction. Some of the topics covered in the book are the pyramidal and extrapyramidal pathways, principles of motor control; effects of lesions in the motor system; muscle spindles and motor control; signals from skin mechanoreceptors in the human hand; afferent c fiber signals and pain; and sympathetic activity in human peripheral nerves. The definition and description of baroreflex control of vasoconstrictor outflow to skeletal muscles are fully covered. An in-depth account of the activity of a motoneuron pool and the muscle activity spectrum is provided. The mechanism of long-latency stretch reflexes and critical exploration of the pyramidal syndrome are completely presented. A chapter is devoted to description of monosynaptic excitability curves after activation of myotatic arc. Another section focuses on the practical applications of pathophysiological analysis.

Neuroproteomics - Oscar Alzate 2009-10-26

In this, the post-genomic age, our knowledge of biological systems continues to expand and progress. As the research becomes more focused, so too does the data. Genomic research progresses to proteomics and brings us to a deeper understanding of the behavior and function of protein clusters. And now proteomics gives way to neuroproteomics as we begin to unravel the complex mysteries of neurological diseases that less than a generation ago seemed opaque to our inquiries, if not altogether intractable. Edited by Dr. Oscar Alzate, Neuroproteomics is the newest volume in the CRC Press Frontiers of Neuroscience Series. With an extensive background in mathematics and physics, Dr. Alzate exemplifies the newest generation of biological

systems researchers. He organizes research and data contributed from all across the world to present an overview of neuroproteomics that is practical and progressive. Bolstered by each new discovery, researchers employing multiple methods of inquiry gain a deeper understanding of the key biological problems related to brain function, brain structure, and the complexity of the nervous system. This in turn is leading to new understanding about diseases of neurological deficit such as Parkinson's and Alzheimer's. Approaches discussed in the book include mass spectrometry, electrophoresis, chromatography, surface plasmon resonance, protein arrays, immunoblotting, computational proteomics, and molecular imaging. Writing about their own work, leading researchers detail the principles, approaches, and difficulties of the various techniques, demonstrating the questions that neuroproteomics can answer and those it raises. New challenges wait, not the least of which is the identification of potential methods to regulate the structures and functions of key protein interaction networks. Ultimately, those building on the foundation presented here will advance our understanding of the brain and show us ways to abate the suffering caused by neurological and mental diseases.

Investigating Stress Responses in Models of Amyotrophic Lateral Sclerosis - Benjamin Clarke 2019

The ability of motor neurons and surrounding glia to respond to stressful conditions is crucial for their survival in injury or disease states. Amyotrophic lateral sclerosis (ALS) is a fatal neurodegenerative disease defined by the loss of both upper and lower motor neurons resulting in muscle paralysis. Several pathomechanisms in both motor neurons and glial cells contribute to motor neuron death in ALS. Among these, dysfunction in stress responsive pathways involved in inflammation, proteostasis and mitochondrial function are known to be important. Since ALS is defined by loss of motor neurons in specific anatomical areas, with spinal motor neurons most affected, regional differences in glial stress responses may contribute towards this specific pattern of damage. In this Thesis, a regional difference in the NO-iNOS-NF- κ B inflammatory pathway was observed, with spinal cord glia displaying a stronger response than cortical glia. While this regional difference was observed, no clear differences were found in the inflammatory responses of glia from mutant SOD1 (mSOD1) models of ALS. However, mSOD1 glia were unable to activate the heat shock response (HSR), a cytoprotective response involving the upregulation of heat shock proteins (Hsps), as effectively as wildtype glia. Reduced activation of the HSR increased the inflammatory responses of mSOD1 glia. Therefore, dysregulation of the HSR may further exacerbate an inherent ability of spinal cord glia to promote inflammatory damage in ALS. Mitochondrial dysfunction is also an important pathomechanism in ALS. Several Hsps are specifically localised to mitochondria. mSOD1 spinal cord motor neurons expressed lower levels mitochondrial Hsps TRAP1 and Hsp60. In a cellular ALS model of oxidative stress, overexpression of these proteins was protective to mitochondrial functions in motor neurons, while knockdown was detrimental. Together, these data suggest that manipulating stress responses of motor neurons and glia may be a viable therapeutic target for ALS.

Motor Speech Disorders - Donald B. Freed 2018-08-01

Motor Speech Disorders: Diagnosis and Treatment, Third Edition offers a detailed yet streamlined introduction to motor speech disorders for graduate students and beginning clinicians. The text offers a brief historical overview of motor speech disorders, providing useful context for understanding the technology and methodology used by modern speech-language pathologists for evaluation and treatment. The text also provides a practical introduction to the human motor system and detailed coverage of six pure dysarthrias, mixed dysarthria, and apraxia of speech. Key Features: Chapter outlines identify the major topics discussed in each chapter A concise summary effectively wraps up each chapter to emphasize key points for students End-of-chapter study questions prompt review and application of topics discussed in each chapter Bolded key terms throughout and an end-of-book glossary Videos of real life cases studies featuring patients with motor speech disorders New to the Third Edition: Updated chapters with the latest research on motor speech disorders, with particular attention to new studies of treatment procedures Now with full-color illustrations, providing significantly better visualization and understanding of neuroanatomy

Upper Motor Neurone Syndrome and Spasticity - Michael P. Barnes 2001-02
This is a thorough, practical reference and guide for all health professionals involved in the management of spasticity.

Update on Amyotrophic Lateral Sclerosis - Humberto Foyaca Sibat

2016-09-14

This book contains selected peer-reviewed chapters which cover updated information on ALS written by international researchers. Update on Amyotrophic Lateral Sclerosis is comprised of 13 chapters from some of the world's top central nervous system researchers and neurologists to provide a timely review of the most recent developments in ALS, covering historic aspects, experimental animal models, genetics, pathogenesis, clinical aspects and imaging among others. Contributors from Belgium, France, Japan, India, Italy, Mexico, Russia, South Africa, and Switzerland have collaborated enthusiastically and efficiently, dedicating their time to create this reader-friendly yet comprehensive work which includes many explanatory figures, tables and photos to enhance legibility and make the book clinically useful. We are looking forward with confidence and pride in the remarkable role that this book will play for a new vision and mission.

Neurologic Differential Diagnosis - Alan B. Ettinger 2014-04-17

"There is an apocryphal story of an eminent neurology professor who was asked to provide a differential diagnosis. He allegedly quipped: "I can't give you a differential diagnosis. If you wish I will give you a list of wrong diagnoses followed by the right diagnosis." Sadly, this sort of arrogance pervaded our field, particularly in the era before there were accurate diagnostic methods and effective treatments of neurological diseases. Fortunately, this sort of pomposity is now relegated to the past and remains only as an antique reminder of a type of hubris that precluded discovery and progress in diseases of the nervous system"--

A Video Atlas of Neuromuscular Disorders - Aziz Shaibani 2014-09-25

The first real cases video atlas of neuromuscular disorders that is supplemented with multiple-choice questions, and updates on the illustrated topics. It is easy to search and read. It is perfect for preparation to the neurology and neuromuscular boards and an excellent way to update the experts. By replacing the descriptive text with vivid illustrative videos, the reader will have more time to face the intellectual challenges of these cases instead of trying to build a mental picture of these cases first. Short and well-edited video clips from real clinic stories supplemented with challenging multiple choice questions, provides an excellent way to bridge the gap between overflow of information and short attention span. The chapters are arranged according the symptoms instead of diseases, yet, diseases are listed in the index if one wants to see all videos relevant to a specific disease. Close to 300 video cases* taken directly from a real neuromuscular clinic, illustrating a myriad of disorders and shedding light on their diagnosis, and treatment and giving updates about many of them provides an invaluable approach that should benefit any one who is interested in neuromuscular disorders which comprises more than 50% of presenting disease to general neurologists and even to general practitioners. Some rare diseases are also described, giving an opportunity for the new trainees to see them so that they can diagnosed them if they see them again which may not happen very often. *Due to size limitations, the videos are not included with any eBook version.

Amine Oxidases: Function and Dysfunction - K.F. Tipton 2013-03-08

Monoamine oxidase plays a major role in the pathogenesis of neuropsychiatric disorders including depressive illness, Parkinson's disease and Alzheimer's disease. The new generation of selective monoamine oxidase inhibitors, devoid of major side effects, has found a prominent place in the treatment of these diseases. Some of these drugs may have neuroprotective activity with prospects for treating progressive neurodegenerative diseases. The volume presents a collection of research papers on monoamine oxidase and its inhibitors. The topic is treated from the point of view of chemistry, biochemistry, pharmacology, physiology, neurology and psychiatry. The book serves as a quick and comprehensive reference source for obtaining the most up to date information.

A Physiological Approach to Clinical Neurology - James W. Lance 2013-10-22

A Physiological Approach to Clinical Neurology deals with the mechanism of various neurological symptoms and signs in terms of disordered physiology. Topics covered by this book include pain and other sensations; weakness; the tendon jerk and the stretch reflex; and disordered control of motor neurons. The disorders of basal ganglia and cerebellum are also considered, along with consciousness and unconsciousness; the mechanism of epilepsy; and the relationship between brain and mind. This book is comprised of 11 chapters and begins by introducing the reader to the clinical analysis of sensory and motor disorders. The discussion then turns to the perception of pain and

other kinds of sensation; the clinical approach to the problem of weakness; and the clinical significance of the tendon jerk. In the chapters that follow, appraisal of a neurophysiological thought is applied to common neurological disorders such as Parkinson's disease, hemiballismus, epilepsy, and developmental anomalies like platybasia. The last chapter explores the phenomena of mind and its connection to the brain as well as its influence on the body, paying particular attention to perception, memory, and emotion. This monograph is intended for those who are proceeding into the clinical years of a medical course, to those who are studying for senior qualifications in internal medicine or neurology, and to those who are merely curious about the cause of neurological phenomena that they observe daily in their patients.

Upper Motor Neuron Functions and Dysfunctions - John Carew Eccles 1985

Neurological Rehabilitation - Pam Enderby 2013-01-10

Dysarthria is a motor speech disorder which can be classified according to the underlying neuropathology and is associated with disturbances of respiration, laryngeal function, airflow direction, and articulation resulting in difficulties of speech quality and intelligibility. There are six major types of dysarthria: flaccid dysarthria associated with lower motor neuron impairment, spastic dysarthria associated with damaged upper motor neurons linked to the motor areas of the cerebral cortex, ataxic dysarthria primarily caused by cerebellar dysfunction, and hyperkinetic dysarthria and hypokinetic dysarthria, which are related to a disorder of the extrapyramidal system. The sixth is generally termed a mixed dysarthria and is associated with damage in more than one area, resulting in speech characteristics of at least two groups. The features of the speech disturbance of these six major types of dysarthria are distinctive and can assist with diagnosis. Dysarthria is a frequent symptom of many neurological conditions and is commonly associated with progressive neurological disease. It has a profound effect upon the patient and their families as communication is integrally related with expressing personality and social relationships. Speech and language therapy can be used to encourage the person to use the speech that is already available to them more effectively, can increase the range and consistency of sound production, can teach strategies for improving intelligibility and communicative effectiveness, can guide the individual to use methods that are less tiring and more successful, and can introduce the appropriate Augmentative and Alternative Communication approaches as and when required.

Motor Neuron Diseases: Research on Amyotrophic Lateral Sclerosis and Related Disorders - 1969

Male Sexual Dysfunction - Fouad R. Kandeel 2007-05-22

Although impotence may be the most widely recognized manifestation of male sexual dysfunction, many other forms of sexual disorders do not involve the erectile mechanism, from deficiencies of desire to disturbances in ejaculatory function to the failure of detumescence. With such a myriad-and often co-existing-number of disorders, the successful tr

Pelvic Floor Disorders - Giulio Santoro 2010-10-27

Dramatic improvement in imaging techniques (3D ultrasonography, dynamic magnetic resonance) allows greater insight into the complex anatomy of the pelvic floor and its pathological modifications. Obstetrical events leading to fecal and urinary incontinence in women, the development of pelvic organ prolapse, and mechanism of voiding dysfunction and obstructed defecation can now be accurately assessed, which is fundamental for appropriate treatment decision making. This book is written for gynecologists, colorectal surgeons, urologists, radiologists, and gastroenterologists with a special interest in this field of medicine. It is also relevant to everyone who aspires to improve their understanding of the fundamental principles of pelvic floor disorders.

Neuroscience - E-Book - Laurie Lundy-Ekman 2022-04-20

Use your knowledge of the nervous system to understand and treat neurologic disorders! Neuroscience: Fundamentals for Rehabilitation, 6th Edition provides an illustrated guide to neurology and how it affects the practice of physical and occupational therapy. Case studies and first-person stories from people with neurologic disorders make it easier to develop clinical reasoning skills and apply your knowledge to the clinical setting. This edition includes an enhanced eBook free with each purchase of a new print book. Written by noted PT educator Laurie Lundy-Ekman, Neuroscience uses evidence-based research to help you evaluate and treat clients who have physical limitations due to nervous system damage or disease. Logical, systems approach to neuroscience makes it easier to

master complex information and provides a framework for conducting a neurologic examination and evaluation. Clinical perspective of neuroscience is provided through case studies, personal stories written by people with neurologic disorders, and summaries of key features of neurologic disorders and the body systems they affect. Six sections — Overview of Neurology, Neuroscience at the Cellular Level, Development of the Nervous System, Vertical Systems, Regions, and Neurologic Tests — first show how neural cells operate, and then allow you to apply your knowledge of neuroscience. Coverage of key physical rehabilitation topics includes abnormal muscle tone, chronic pain, control of movement, and differential diagnosis of dizziness. Hundreds of color-coded illustrations show body structures and functions across systems. Full-color atlas includes photographs of the human brain along with labeled line drawings. Clinical Notes case studies demonstrate how neuroscience concepts may be applied to clinical situations. Pathology boxes provide a quick summary of the features of neurologic disorders commonly encountered in rehabilitation practice. NEW! Quick Reference Lists on the inside book covers make it easy to find frequently consulted figures, reflexes, tables, and summaries within the text. NEW! Updated chapters include Pain as a Disease and as a Symptom, Motor System: Upper Motor Neurons, Motor and Psychologic Functions, Brainstem Region, and Neurologic Tests. NEW! 85 new or updated figures are added to this edition. NEW! Nearly 600 new references are added to this edition. NEW! Enhanced eBook version - included with print purchase - allows you to access all of the text, figures, and references from the book on a variety of devices. NEW! Answers to the book's case studies and a student workbook with approximately 1,000 practice questions and answers are included in the eBook.

Mitochondrial Function and Dysfunction - Anthony Schapira 2003-01-10

Mitochondria are critical to the survival of cells, therefore, it is not surprising that abnormalities in mitochondrial function may lead to human disease. This book concentrates on the biology and pathology of mitochondria, covering some of the important basic science features of the biology of mitochondria. It then moves on to discuss the breadth of human diseases related to mitochondrial dysfunction, including Parkinson's disease, Amyotrophic Lateral Sclerosis (ALS), and Alzheimer's disease. * Provides comprehensive coverage of basic science and clinical features of mitochondrial dysfunction * Presents detailed analysis of "hot" topics in mitochondrial function and neurodegenerative diseases * Includes outstanding list of contributing authors

Clinical and Molecular Aspects of Motor Neuron Disease - Johnathan Cooper-Knock 2013-09-01

In this e-book, motor neuron disease (MND) shall refer to amyotrophic lateral sclerosis (ALS), the most common neurodegenerative disorder affecting both the upper and lower motor neurons. With the discovery of C9ORF72 expansions in approximately 10% of all MND cases, in certain populations, we stand at the brink of a new era of MND research and hopefully treatment facilitated by the ability to associate a relatively large group of patients with a similar disease mechanism. This review will summarise both current clinical management of MND and our present understanding of the molecular pathogenesis of MND. Study of C9ORF72-MND has the potential to rapidly advance both of these aspects in the coming years.

Neurotrauma - Michael E. Miner 2013-10-22

Neurotrauma features the papers presented at the Second Houston Conference on Neurotrauma in Texas held in May 1985. These papers cover discussions on patients who have both brain and spinal cord injuries and acute care treatment and investigations of brain injury, as well as rehabilitation strategies and approaches. This second edition is organized into four parts. The first part deals with the treatment of less-than-severe head injury, barbiturate-induced coma, closed head injuries, and severely brain-injured patients. The second part focuses on the evaluation of physiological and anatomical recovery of brain injury patients, while the third part discusses the management of patients with combined head and spinal cord injury. The final part focuses on rehabilitation issues that include nonpharmacological management, the impact of traumatic brain injury on sexuality, and ethical aspects of lifesaving therapeutic strategies. This book may be of interest to persons dealing with studies on the treatment of brain and spinal cord injuries.

Large Animal Internal Medicine - E-Book - Bradford P. Smith 2008-06-02

Large Animal Internal Medicine, 4th Edition features a problem-based approach with discussions of over 150 clinical signs. This is the first internal medicine reference that enables you to efficiently diagnose

horses, cattle, sheep, and goats based on clinical observation and laboratory and diagnostic testing. With this user-friendly format, you can find essential information about specific diseases and reach a diagnosis by simply identifying the signs. A unique problem-based approach with discussions of over 150 clinical signs and manifestations helps you quickly reach a diagnosis based on observations and laboratory tests. Causes of Presenting Signs boxes provide easy access to complete lists of common, less common, and uncommon diseases associated with manifestations or signs of disease. Complete lists of diseases associated with a given lab abnormality in Causes of Abnormal Laboratory Values boxes help you easily interpret abnormalities in clinical chemistry, hematology, blood proteins, and clotting tests. An expert team of over 180 authors contributing information in their areas of expertise ensures you are using the most accurate and up-to-date information available. Color plates accompanying Diseases of the Eye and Diseases of the Alimentary Tract enable you to visually recognize the clinical appearance of ophthalmologic conditions and alimentary tract disorders for quick and easy diagnosis and treatment. Six all-new chapters provide in-depth coverage of diagnostic testing, critical care and fluid therapy, biosecurity and infection control, and genetic disorders.

Scandinavian Journal of Rehabilitation Medicine - 1987

Advances in Neurological Rehabilitation and Restorative Neurology - Olle

Höök 1988

Women's Sexual Function and Dysfunction - Irwin Goldstein
2005-11-17

The first, definitive text on female sexual dysfunction, this major new book summarizes the current body of knowledge in the field, traces the history of developments in the area, and identifies work still needed in the future. Reflecting a multidisciplinary approach to the subject, the book details the methods and materials for ensuring the appropriate management of women with sexual health problems, and concentrates on the presentation of evidence-based data concerning the physiology, pathophysiology, diagnosis and treatment of sexual function and dysfunction in women. The inclusion of 'difficult cases' also enhances the use of text as a practical guide to all disciplines concerned with the field of female sexual dysfunction. This important work will become a key resource for basic science researchers, endocrinologists, gynecologists, psychologists, urologists, health care clinicians, and anyone else interested in women's sexual health. All proceeds are donated to the International Society for the Study of Women's Sexual Health.

Disorders of Voluntary Muscle - George Karpati 2001-07-12

Rewritten and redesigned, this remains the one essential text on the diseases of skeletal muscle.

Dysfunction and Repair of Neural Circuits for Motor Control - John Martin 2021-04-21