

Clinical features, pathogenesis, and treatment of myasthenia gravis: a supplement to the Guidelines of the German Neurological Society

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Abstract Myasthenia gravis (MG) is an autoimmune antibody-mediated disorder of neuromuscular synaptic transmission. The clinical hallmark of MG consists of fluctuating fatigability and weakness affecting ocular, bulbar and (proximal) limb skeletal muscle groups. MG may either occur as an autoimmune disease with distinct immunogenetic characteristics or as a paraneoplastic syndrome associated with tumors of the thymus. Impairment of central thymic and peripheral self-tolerance mechanisms in both cases is thought to favor an autoimmune CD4⁺ T cell-mediated B cell activation and synthesis of pathogenic high-affinity autoantibodies of either the IgG1 and 3 or IgG4 subclass. These autoantibodies bind to the nicotinic acetylcholine receptor (AChR) itself, or muscle-specific tyrosine-kinase (MuSK), lipoprotein receptor-related protein 4 (LRP4) and agrin involved in clustering of AChRs

within the postsynaptic membrane and structural maintenance of the neuromuscular synapse. This results in disturbance of neuromuscular transmission and thus clinical manifestation of the disease. Emphasizing evidence from clinical trials, we provide an updated overview on immunopathogenesis, and derived current and future treatment strategies for MG divided into: (a) symptomatic treatments facilitating neuromuscular transmission, (b) antibody-depleting treatments, and (c) immunotherapeutic treatment strategies.

Keywords Myasthenia gravis · Pathogenesis · Treatment guidelines

Introduction

Myasthenia gravis (MG) is regarded an autoimmune antibody-mediated disorder of neuromuscular synaptic transmission as (a) auto-antibody depositions are detectable at the neuromuscular junction (NMJ) [175, 176]; (b) autoantibodies from MG patients cause MG symptoms when

This manuscript has partially been adopted from the clinical guidelines “Diagnostik und Therapie der Myasthenia gravis und des Lambert-Eaton-Syndroms” of the German Neurological Society (DGN) published by some of the authors [44]. Publication has been permitted by the German Neurological Society.

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Diffuse Parenchymal Lung Disease U. Costabel, R. M. du Bois, J. J. Egan, 2007-05-29 Diffuse parenchymal lung disease DPLD represents a large and heterogeneous group of disorders Although new insights into the pathogenesis and new techniques such as high resolution CT have led to a better understanding of DPLD clinical management remains a challenge This volume is designed to become a valuable aid in the diagnosis and management of DPLD It starts with general topics such as a new classification system for DPLD the general diagnostic approach and clinical evaluation of the patient by radiology histological patterns and bronchoalveolar lavage This is followed by consideration of some basic aspects such as the genetics of DPLD the principles of granuloma formation pulmonary fibrogenesis and vasculitis as well as novel treatment approaches A large part of the book consists of disease specific chapters which discuss granulomatous disorders idiopathic pulmonary fibrosis and other entities of idiopathic interstitial pneumonia the collagen vascular diseases drug induced infiltrative lung disease as well as orphan diffuse lung diseases including Langerhans cell histiocytosis lymphangiomyomatosis and pulmonary alveolar proteinosis Special chapters on DPLD in children and lung transplantation for end stage fibrosis complete this comprehensive publication Written by internationally known experts this well organized volume is recommended to a wide audience including respiratory physicians in training practice and research as well as radiologists and pulmonary pathologists

[Computed Tomography & Magnetic Resonance Imaging Of The Whole Body E-Book](#) John R. Haaga, Daniel Boll, 2016-06-06 Now more streamlined and focused than ever before the 6th edition of CT and MRI of the Whole Body is a definitive reference that provides you with an enhanced understanding of advances in CT and MR imaging delivered by a new team of international associate editors Perfect for radiologists who need a comprehensive reference while working on difficult cases it presents a complete yet concise overview of imaging applications findings and interpretation in every anatomic area The new edition of this classic reference released in its 40th year in print is a must have resource now brought fully up to date for today's radiology practice Includes both MR and CT imaging applications allowing you to view correlated images for all areas of the body Coverage of interventional procedures helps you apply image guided techniques Includes clinical manifestations of each disease with cancer staging integrated throughout Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures images and references from the book on a variety of devices Over 5 200 high quality CT MR and hybrid technology images in one definitive reference For the radiologist who needs information on the latest cutting edge techniques in rapidly changing imaging technologies such as CT MRI and PET CT and for the resident who needs a comprehensive resource that gives a broad overview of CT and MRI capabilities Brand new team of new international associate editors provides a unique global perspective on the use of CT and MRI across the world Completely revised in a new more succinct presentation without redundancies for faster access to critical content Vastly expanded section on new MRI and CT technology keeps you current

with continuously evolving innovations Primer on Cerebrovascular Diseases Louis R. Caplan,Bo K. Siesjo,Bruce Weir,K. Michael Welch,Donald J. Reis,1997-05-12 Primer on Cerebrovascular Diseases is a handy reference source for scientists students and physicians needing reliable up to date information on basic mechanisms physiology pathophysiology and medical issues related to brain vasculature The book consists of short specific chapters written by international experts on cerebral vasculature and presents the information in a comprehensive and easily accessible manner The book also contains valuable information on practical applications of basic research Presents topics in a comprehensive and accessible format Written by international authorities on cerebral vasculature Provides practical applications for researchers **Oral**

Pathology - E-Book Joseph A. Regezi,James Sciubba,Richard C. K. Jordan,2015-12-24 Diagnose oral diseases quickly and accurately Oral Pathology Clinical Pathologic Correlations 7th Edition presents diseases and conditions by appearance and presentation so that you can easily identify and plan treatment for common oral and paraoral problems An atlas style overview of pathologic conditions opens the book and then each chapter describes pathologies in detail depicting each with full color clinical photos and photomicrographs In addition to covering the latest advances in oral pathology this edition includes new radiographic images demonstrating advanced imaging techniques Expert educators Joseph Regezi James Sciubba and Richard Jordan provide a quick reference that s ideal for the lab NBDE review or chairside use Organization of oral and maxillofacial diseases by clinical appearance such as red blue lesions or pigmented lesions matches what you would expect to see upon a patient s presentation and provides a practical tool for developing differential diagnoses and planning treatment Nearly 1 000 full color clinical photographs photomicrographs radiographs and drawings help you learn to identify lesions and disease states An atlas style Clinical Overview section makes it easy to find key information with one page showing clinical photos of common conditions and the facing page listing symptoms causes and significance Nearly 200 summary boxes and tables offer clear at a glance information on the clinical features diagnosis and treatment for many conditions Correlation of histopathology with clinical features of oral diseases assists the clinician in recognizing specific conditions and developing differential diagnoses and rational treatment approaches Student resources on an Evolve companion website include 30 case studies interactive lecture modules and a 150 question practice exam to prepare you for the NBDE and for clinical practice UPDATED content reflects current information and the latest advances in oral and maxillofacial pathology *Current Review of Cerebrovascular Disease* Marc Fisher,Julien Bogouslavsky,1996 **Indexes**

to the Epilepsy Accessions of the Epilepsy Information System J. Kiffin Penry,1978 **Trauma Imaging in the Thorax and Abdomen** Alexander Rosenberger,Olga B. Adler,Rosalind H. Troupin,1987 Infections of the Central Nervous System Michael W. Scheld,Richard J. Whitley,Christina M. Marra,2014 This clinical reference on central nervous system infections is now in its thoroughly revised updated Fourth edition Over 70 leading experts provide comprehensive current information on all infections both neural specific and systemic that involve the central nervous system Areas with significant

new clinical information include treatment of tuberculosis non tubercular mycobacterial infections brain abscess and Lyme disease Provided by publisher

Stroke Prevention, Treatment, and Rehabilitation David Spence, Henry JM Barnett, 2012-03-30 Help your patients avoid a new or recurrent stroke with this evidence based guide Featuring a rigorous evidence based approach and hands on tools this book will enable you to go further in minimizing the risk of stroke for your patients Edited by two global authorities this book offers leading edge insights new data and best practices from luminaries in the field all designed to help you apply proven stroke prevention techniques and treatment protocols to your practice In concise practical chapters the text surveys the epidemiology of stroke the urgency of treatment and how to unlock the considerable potential for prevention Specific chapters highlight specific ready to use prevention methods including Nutritional counseling smoking cessation and exercise Management of hypertension Antiplatelet anticoagulation and lipid lowering therapies Intracranial stenosis and appropriate endarterectomy and stenting Treatment and rehabilitation for when stroke has already occurred

Imaging of the Nervous System Richard E. Latchaw, John Kucharczyk, Michael Eugene Moseley, 2005 This state of the art two volume set is a comprehensive account of the latest imaging techniques for both diagnosis and image guided therapy for the many diseases of the nervous system The book provides summary boxes and tables covering the classification of pathology key features of the disorder and differential diagnosis as well as essential color images An accompanying CD ROM provides the images from the text plus bonus images and cases in a convenient electronic format Examines both the peripheral and central nervous systems coverage not found in other texts Integrates recent research discoveries both clinical and basic science with clinical utilization Offers material on disorders of neural development behavior and cognition Discusses traditional imaging topics plus new diseases such as those affecting neural development cognition and behavior Features the work of a multidisciplinary team of contributors including neuroradiologists neurologists neurosurgeons neuroanatomists physiologists and physicists Includes a CD ROM that features all the images from the 2 volume set and test cases related to each chapter of the text Presents the hot topics in today s practice including a chapter on neurobehavioral disorders Chapter 10 A Functional Atlas of Brain Vascular Territories is a four color presentation of illustrations and color coded text

Assessment of Hypertensive Organ Damage Lennart Hansson, W. H. Birkenhäger, 1997 Hardbound A recent wave of interest in practical hypertension research relates to the evaluation of organ damage in connection with the hypertensive process A large number of prognostic therapeutic trials in hypertensive populations has convincingly shown that antihypertensive treatment per se substantially improves the cardiovascular prospects of such patients This particularly applies to cerebrovascular accidents which are the most dramatic events from any point of view It should be recognized that the identification of all cardiovascular sequelae thus far focused on conventional clinical pathological criteria and hence lacked quantitative evaluation The currently available techniques of identifying early organ lesions may well exonerate hypertensive patients from being exposed to avoidable and irreversible

cardiovascular risk because they pinpoint early quantifiable hypertensive retinal cerebral cardiac and renal lesions Given the current

Synopsis of Diseases of the Chest Richard S. Fraser,2005 Derived from Fraser and Par s encyclopedic Diagnosis of Diseases of the Chest this state of the art New Edition focuses on the diseases and disorders clinicians see in everyday practice Over 1 400 beautifully reproduced images including 100 in full color demonstrate the clinical appearance of a full range of conditions

Neurology of the Newborn Joseph J. Volpe,2001 The extensively updated 4th Edition of this landmark reference represents one of the most comprehensive up to date sources on neonatal neurology It expertly synthesizes state of the art knowledge from a variety of disciplines including clinical medicine pathology genetics physiology biochemistry and related fields Although the primary focus is on clinical evaluation and management the book also examines the sophisticated technology that has been revolutionizing the field Organizes disease focused chapters by the affected body region for easy reference Offers comprehensive coverage of the diagnosis and treatment of congenital viral infections teratogenic effects of certain drugs hyperammonemia and traumatic disorders Includes over 1000 illustrations and 9 500 references many of them new Reflects the latest insights into molecular genetics and their relevance to clinical practice Describes the most recent techniques for the evaluation of the newborn Contains new or extensively updated coverage of neural tube defects and congenital hydrocephalus hypoxic ischemic encephalopathy neurological complications of extra corporeal membrane oxygenation ECMO prevention of intraventricular hemorrhage bilirubin brain injury perinatal HIV infection vein of Galen malformations and much more

Primer on Kidney Diseases Arthur Greenberg,Alfred K. Cheung,1998 This Second Edition of the National Kidney Foundation s Primer on Kidney Diseases provides an up to date review of kidney disease fluid and electrolyte disorders hypertension dialysis and renal transplantation All material has been thoroughly revised from the First Edition making this edition the new authority on kidney diseases The Second Edition summarizes key information of practical value to nephrologists endocrinologists primary care physicians family practitioners internists house staff medical students and other professionals providing health care to patients with kidney disease Each chapter is written by an established expert in the field with superior writing and teaching skills Careful editing ensures a consistent depth of coverage and uniform style as well as a balanced approach to controversial topics The result is a state of the art approach to clinical disorders of kidney disease and electrolyte metabolism

Bockus Gastroenterology Henry L. Bockus,1995

Congenital Defects Literature Index ,1977 References from some 3500 worldwide biomedical journals to all significant articles

Liver Disease Bruce R. Bacon,Adrian M. Di Bisceglie,2000 Edited by two internationally known and respected hepatologists this new resource examines the important concepts principles and facts needed for the daily care and management of liver disease patients A group of international authors provides a global perspective on this rapidly changing field Defines normal liver function examines the evaluation of patients with liver disease explores various diseases of the liver and biliary tree discusses specialised evaluation and presents specific treatment options Highly illustrated with

colour figures throughout reinforcing the concepts presented Provides specific suggested readings rather than exhaustive lists of references

Rheumatology Marc C. Hochberg, 2003 The third edition of this publication attempts to be the most comprehensive authoritative rheumatology text designed to meet the complete needs of all practicing and academic rheumatologists as well as all arthritis related health care professionals and scientists interested in disorders of the musculoskeletal system The book is firmly grounded on modern medical science integrating the relevant basic biology with current clinical practice

Harrison's Principles of Internal Medicine 19/E (Vol.1 & Vol.2) (ebook) Dennis L. Kasper, Anthony S. Fauci, Stephen L. Hauser, Dan L. Longo, J. Larry Jameson, Joseph Loscalzo, 2015-04-17 The landmark guide to internal medicine updated and streamlined for today's students and clinicians The only place you can get ALL the great content found in the two print volumes AND the acclaimed DVD in one convenient resource Through six decades no resource has matched the authority esteemed scholarship and scientific rigor of Harrison's Principles of Internal Medicine Capturing the countless advances and developments across the full span of medicine the new 19th edition of Harrison's provides a complete update of essential content related to disease pathogenesis clinical trials current diagnostic methods and imaging approaches evidence based practice guidelines and established and newly approved treatment methods Here are just a few of the outstanding features of the new Nineteenth Edition Content is practically organized around two basic themes education and clinical practice The teaching and learning sections cover foundational principles cardinal manifestations of disease and approach to differential diagnosis the content devoted to clinical practice focuses on disease pathogenesis and treatment NEW chapters on important topics such as Men's Health The Impact of Global Warming on Infectious Diseases Fatigue and many more Critical updates in management and therapeutics in Hepatitis Coronary Artery Disease Ebola Virus Disease Multiple Sclerosis Diabetes Hypertension Deep Vein Thrombosis and Pulmonary Embolism Acute and Chronic Kidney Disease Inflammatory Bowel Disease Lipoprotein Disorders HIV and AIDS and more Increased number of the popular Harrison's clinical algorithms clinically relevant radiographic examples spanning hundreds of diseases clinical pathological images in full color crystal clear full color drawings and illustrations and helpful tables and summary lists that make clinical application of the content faster than ever Outstanding multi media resources including practical videos demonstrating essential bedside procedures physical examination techniques endoscopic findings cardiovascular findings are available for easy download Supporting the renowned coverage are supplemental resources that reflect and assist modern medical practice more than 1 000 full color photographs to aid visual recognition skills hundreds of state of the art radiographs from plain film to 3D CT to PET Scans beautiful illustrations that bring applied anatomy and processes to life the renowned Harrison's patient care algorithms essential summary tables and practical demonstrative videos In addition several digital atlases highlight noninvasive imaging percutaneous revascularization gastrointestinal endoscopy diagnosis and management of vasculitis and numerous other issues commonly encountered in clinical practice Acclaim for Harrison's Covering nearly

every possible topic in the field of medicine the book begins with a phenomenal overview of clinical medicine discussing important topics such as global medicine decision making in clinical practice the concepts of disease screening and prevention as well as the importance of medical disorders in specific groups e g women surgical patients end of life The extensive chapters that follow focus on a symptom based presentation of disease and then illness organized by organ system Numerous tables graphs and figures add further clarity to the text Written by experts in the field this book is updated with the latest advances in pathophysiology and treatment It is organized in a way that makes reading from beginning to end a logical journey yet each chapter can stand alone as a quick reference on a particular topic Doody s Review Service reviewing the previous edition of Harrison s Computed Tomography of the Whole Body John Robert Haaga,Ralph J. Alfidi,1983

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