

Multiple Sclerosis Rehabilitation From Impairment To Participation Rehabilitation Science In Practice Series

This issue of Physical Medicine and Rehabilitation Clinics devoted to Multiple Sclerosis is Guest Edited by Drs. George Kraft and Shana Johnson. Articles in this issue include: Gait Impairment and Optimizing Mobility in MS; Spasticity management; Exercise; ADLs and Adaptive Equipment; Movement Disorders; Fatigue Management; Cognitive Impairment and Management; Neurogenic Bladder and Bowel; Visual Issues; Depression and Pain; Adaptive Technology and Vocational Issues; Aging; Evoked Potentials; and Research.

Multiple Sclerosis and Related Disorders provides evidence-based data and experience-based guidance for delivering quality long-term care to MS patients. Information on disease history, pathophysiology, and biology is included to provide clinicians with a framework for understanding current diagnosis, monitoring, and treatment strategies for these disorders. In addition to thoroughly reviewing the newest disease-modifying treatments, the authors have devoted significant focus to the symptoms that frequently manifest and their treatment options. Symptoms and functional limitations are the face of the disease for patients, and present their own set of challenges for practitioners. The book proceeds through diagnosis (initial symptoms, criteria and classification, imaging, lab tests, and differential diagnosis), approved treatments for the various MS types including emerging therapies where appropriate, symptom management, rehabilitative issues, general health and wellness, and an overview of MS clinical trials. Special populations, societal and family issues, and related disorders that are often mistaken for MS are also covered. Dedicated chapters on neuromyelitis optica and acute disseminated encephalomyelitis incorporate newer diagnostic criteria. Because comorbidities often make the management of MS-related disability more complex, the book addresses these comorbidities as part of a comprehensive management plan. To enhance the clinical utility, critical-to-know information and management pearls are boxed for quick reference and most chapters include lists of Key Points for clinicians, and for patients and families. Illustrations, tables, graphs, assessment scales, and up-to-date MRI imaging inform the text throughout. The treatment chapters include specific recommendations where available and highlight areas of controversy. Illustrative cases go beyond the literature to amplify clinical recommendations and provide real-world guidance for practitioners. Illustrations, tables, graphs, assessment scales, and up-to-date MRI imaging inform the text throughout. Multiple Sclerosis and Related Disorders features: Comprehensive clinical reference for all members of the MS care team Focus on practical approaches to diagnosis, treatment, counseling, and rehabilitative strategies Reviews the latest disease modifying therapies Extensive chapters on symptom management and women's issues in MS Edited and written primarily by expert clinicians at Cleveland Clinic/Mellen Center Evidence- and experience-based guidance Dedicated chapters on neuromyelitis optica and acute disseminated encephalomyelitis incorporating newer diagnostic criteria Includes treatment guidelines and numerous illustrations, tables, scales; key information is highlighted for quick reference

This practical guide for physicians and other health care professionals discusses the impact of fatigue on the individual with MS, the potential etiologies underlying MS-

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related fatigue, its work up and diagnosis, and pharmacologic and nonpharmacologic management strategies. Fatigue is perhaps the single most prevalent and disabling symptom of the multiple sclerosis, and limits patients' activity more than any other MS symptom. The identification of fatigue as a distinct clinical entity requires both art and science, and most of all, a willingness and ability to listen carefully to patients and their families. The physician's ability to obtain a comprehensive history requires a full understanding of the circumstances in which fatigue occurs (physical, cognitive, and psychosocial) and demands consideration of a large number of disorders, including anxiety, depression, excessive daytime sleepiness, pain, and spasticity, all of which may mimic or contribute to fatigue. While fatigue is almost exclusively a subjective experience, depending on the patient's ability to understand and report this symptom, there are effective methods for identifying the existence of fatigue, determining its severity, and distinguishing it from related or contributing disorders such as depression, pain, and sleep disorders. Readers will learn that fatigue need not be tolerated by the MS patient. Various therapies, support systems, and treatment of underlying affective disorders can all alleviate fatigue or reduce its impact, restoring the patient's energy levels and ability to participate in life. Virtually every MS patient with fatigue can benefit from intervention, and failing to treat the symptom of fatigue with the respect that it deserves is a serious detriment to patient care.

Recent rapid changes in the field of multiple sclerosis management have made the task of staying well-informed a challenge for neurologists, and even more so for other healthcare practitioners who are involved in symptom evaluation and treatment. Multiple Sclerosis for the Non-Neurologist is an up-to-date resource for physicians, residents, fellows, and others who care for patients with MS. It contains authoritative information on all aspects of this complex disease, including monitoring requirements for patients with MS, potential risks and adverse events of disease modifying or symptomatic therapies, and possible drug interactions and contraindications of medications.

Preceded by: Physical medicine and rehabilitation / [edited by] Randall L. Braddom. 4th ed. c2011.

This excellent book provides a fresh approach to multiple sclerosis, detailing the newest developments in a lively style. Particular emphasis is placed on areas of controversy and uncertainty. The information conveyed is accessible to all practitioners in the field of multiple sclerosis.

The fourth edition of ACSM's Exercise Management for Persons With Chronic Diseases and Disabilities reveals common ground between medical and exercise professionals, creating a more collaborative approach to patient care. Developed by the American College of Sports Medicine (ACSM) with contributions from a specialized team of experts, this text presents a framework for optimizing patients' and clients' functionality by keeping them physically active. Featuring new content on common comorbid conditions, this edition is streamlined and updated to better suit chronic populations. This fourth edition of ACSM's Exercise Management for Persons With Chronic Diseases and Disabilities outlines why exercise is significant in the treatment and prevention of disease, advises medical and exercise professionals in considering proper exercise prescription protocols, and provides evidence-informed guidance on devising individualized exercise programs. Major advancements and features of the

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fourth edition include the following: • Current evidence on exercise management for persons with multiple conditions, providing guidance on working with these common yet complex populations • A refocused goal of using physical activity to optimize patients' and clients' functionality and participation in life activities rather than only to treat and prevent disease • Specific content to help physicians prescribe physical activity and exercise to patients for promotion of health, well-being, and longevity • Reorganization of case studies into one streamlined chapter along with commentary from the senior editor to encourage critical thinking and recognize the unique needs of each patient The case studies in the text are real-life scenarios that help professionals and clinicians combine scientific knowledge with experience to find appropriate solutions for each individual. Commentary on the case studies from the senior editor illustrates when improvisation may be appropriate and where further research is needed. Tables are highlighted throughout the text to help readers quickly reference important clinical information. Evidence-informed guidelines, suggested websites, and additional readings further encourage practical use of information and identify further learning opportunities. For instructors, an ancillary PowerPoint presentation package aids in classroom discussion. The critical element that distinguishes the fourth edition of ACSM's Exercise Management for Persons With Chronic Diseases and Disabilities is its unifying mission to incorporate physical activity and exercise in both disease treatment and prevention. Its emphasis on assisting people with multiple conditions, which is ever present in health care today, moves beyond primary and secondary prevention to focus on how patients and clients can be kept physically active and functionally fit.

The most recent high-profile advocate for Americans with disabilities, actor Christopher Reeve, has highlighted for the public the economic and social costs of disability and the importance of rehabilitation. Enabling America is a major analysis of the field of rehabilitation science and engineering. The book explains how to achieve recognition for this evolving field of study, how to set priorities, and how to improve the organization and administration of the numerous federal research programs in this area. The committee introduces the "enabling-disability process" model, which enhances the concepts of disability and rehabilitation, and reviews what is known and what research priorities are emerging in the areas of: Pathology and impairment, including differences between children and adults. Functional limitations--in a person's ability to eat or walk, for example. Disability as the interaction between a person's pathologies, impairments, and functional limitations and the surrounding physical and social environments. This landmark volume will be of special interest to anyone involved in rehabilitation science and engineering: federal policymakers, rehabilitation practitioners and administrators, researchers, and advocates for persons with disabilities.

Concise and portable, Braddom's Clinical Handbook of Physical Medicine and Rehabilitation, by Drs. David X. Cifu and Henry L. Lew, gives you dependable, up-to-date content in a handbook format ideally suited for use at the bedside or in outpatient clinics. This quick reference covers the everyday topics you need – assistive devices and orthoses, spasticity, pediatric, adult, and geriatric care, pain management, outcome measures, and much more – all derived from the most trusted name in the field of PM&R. Reader-friendly format with succinct, templated chapters for ease of use. Authoritative content derived from the #1 comprehensive reference in the field: Braddom's Physical Medicine and Rehabilitation. An ideal resource for the entire rehabilitation team as a quick reference or study guide. Highlights key concepts

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spanning the full spectrum of rehabilitation medicine to help optimize outcomes for patients with a range of chronic diseases, impairments, and disabilities. Includes eSlides compiled by internationally renowned experts to summarize key teaching points and clinical pearls. Although new immunomodulating treatments have made dramatic inroads into lessening the impact of multiple sclerosis, no cure is yet in sight. Most patients will progress, and dealing with their many complex symptoms and issues requires many levels of medical and rehabilitative care. This important book focuses on symptom control and clinical management using these innovative therapies and is packed with practical, easy-to-access information. Highlights of this outstanding clinical tool: Detailed coverage of individual symptoms and corresponding management techniques. Discussion of the newest immunomodulating therapies -- combining the most recent data with the authors' actual clinical experience. Inclusion of easy-to-follow algorithms for clear, strategic decision-making. Coverage of rehabilitation issues, including safety and quality of life. Valuable chapters on integrating MS patients into their communities. Take advantage of the most up-to-date information in a rapidly changing field, covering complex medical and rehabilitative issues in a clear, straightforward format. Order today for the newest management strategies in multiple sclerosis.

Multiple Sclerosis: The Questions You Have, The Answers You Need, 5th Edition is the definitive guide for everyone concerned with the disease - those who have MS and those who share their lives with someone who has it. It covers a wide range of topics in an accessible question and answer format that allows people to easily find the information they need while providing a model of successful communication with healthcare providers. The contributors are leading authorities in all areas of multiple sclerosis management, who proffer expert answers to the most common questions about living with MS-medical, emotional, social, and economic - and represents a interdisciplinary approach to the disease. The book's goal is to help those living with MS live the lives they aspire to lead. The chapters cover everything from treatment to emotional, sexual, and employment issues. The new edition has been thoroughly revised and updated throughout. The book provides the most current information on multiple sclerosis including a review of the controversy surrounding CCVSI, discussion of the first two pills in development for the disease, new information on the drug Tysabri, emotional issues, and the family. The thoroughly revised and updated fifth edition of the classic Multiple Sclerosis: The Questions You Have, The Answers You Need answers even more of your questions about how to live and thrive with MS. What are the current drug therapies for MS? What about alternative medicine? Should I exercise? How common is depression with MS?

Immune System Diseases: New Insights for the Healthcare Professional: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Immune System Diseases. The editors have built Immune System Diseases: New Insights for the Healthcare Professional: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Immune System Diseases in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Immune System Diseases: New Insights for the Healthcare Professional: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Now available in paperback, this updated new edition summarizes the latest developments in cognitive neuroscience related to rehabilitation, reviews the principles of successful interventions and synthesizes new findings about the rehabilitation of cognitive changes in a variety of populations. With greatly expanded sections on treatment and the role of imaging, it

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provides a comprehensive reference for those interested in the science, as well as including the most up-to-date information for the practising clinician. It provides clear and practical guidance on why cognitive rehabilitation may or may not work. How to use imaging methods to evaluate the efficacy of interventions. What personal and external factors impact rehabilitation success. How biological and psychopharmacological changes can be understood and treated. How to treat different disorders of language and memory, and where the field is going in research and clinical application.

This first-of-its-kind textbook surveys rehabilitation and vocational programs aiding persons with disabilities in remote and developing areas in the U.S. and abroad. Contributors discuss longstanding challenges to these communities, most notably economic and environmental obstacles and ongoing barriers to service delivery, as well as their resilience and strengths. Intersections of health, social, structural, and access disparities are shown affecting rural disabled populations such as women, racial and sexual minorities, youth, and elders. In terms of responses, a comprehensive array of healthcare and health policy solutions and recommendations is critiqued with regard to health, employment, and service effectiveness outcomes. Included among the topics: Healthcare initiatives, strategies, and challenges for people with disabilities in rural, frontier, and territory settings. Challenges faced by veterans residing in rural communities. The Asia and Pacific region: rural-urban impact on disability. Challenges after natural disaster for rural residents with disabilities. Meeting the needs of rural adults with mental illness and dual diagnoses. Capacity building in rural communities through community-based collaborative partnerships. Disability and Vocational Rehabilitation in Rural Settings makes a worthy textbook for graduate students and upper-level undergraduates in the fields of social work, community and environmental psychology, public health, sociology, education, and geography. Its professional audience also includes vocational rehabilitation counselors serving these dynamic populations.

This comprehensive reference source is a state-of-the-art guide to the scientific, clinical, rehabilitative, and policy aspects of vision impairment and blindness. More than 100 original contributions from physicians, therapists, rehabilitation specialists, and policy makers cover everything from the basic science of vision and its diseases to assistive technologies, treatment, and care.

The Multiple Sclerosis International Foundation estimates that over 2.5 million people worldwide have multiple sclerosis. Throughout developed countries, increased attention has been paid to this disorder, due in large part to advanced imaging technology and the development of new therapeutic pharmaceutical agents. Multiple Sclerosis for the Practicing Neurologist, edited by Joel Oger, MD, and Adnan Al-Araji, MB, offers a practical review of this disabling condition, especially focused on the evaluation and treatment of patients in low-resource environments, which lack these new technologies. It is the fifth volume in a series of clinically oriented titles developed under the auspices of the World Federation of Neurology. This volume gives concise, useful clinical information for practicing neurologists, providing a straightforward overview of each topic and including many representative case studies. Drs. Oger and Al-Araji effectively demonstrate that a diagnosis of multiple sclerosis is possible and acceptable without expensive tests and equipment, such as MRIs. In parallel, treatment options that avoid costly disease-modifying drugs have been stressed throughout. Topics covered include: Diagnosis and diagnostic tests Symptom management and immunotherapy Multiple sclerosis rating scales Clinical trials in multiple sclerosis Multiple Sclerosis for the Practicing Neurologist is the first volume to address the issues faced by neurologists with limited resources who must deliver care to MS patients.

Summary Description This book is primarily a celebration of the qualitative work undertaken internationally by a number of experienced researchers. It also focuses on developing the use of qualitative research for health and rehabilitative practitioners by recognizing its value

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methodologically and empirically. We find that the very nature of qualitative research offers an array of opportunities for researchers in being able to understand the social world around us. Further, through experience and discussion, this book identifies the multifaceted use of qualitative methods in the healthcare and rehabilitative setting. This book touches on the role of the researcher, the participants involved, and the research environment. In short, we see how these three central elements can affect the nature of qualitative work in attempts to offer originality. This text speaks to a number of audiences. Students who are writing undergraduate dissertations and research proposals, they may find the myriad of examples stimulating and may support the rationale for methodological decisions in their own work. For academics, practitioners, and prospective qualitative researchers this book also aims to demonstrate an array of opportunism in the field of qualitative research and how they may resonate with arguments proffered. It is anticipated that readers will find this collection of qualitative examples not only useful for informing their own research, but we also hope to enlighten new discussions and arguments regarding both methodological and empirical use of qualitative work internationally. Features Encompasses the importance of qualitative research and how it can be used to facilitate healthcare and rehabilitation across a wide range of health conditions. Evaluates empirical data whilst critically applying it to contemporary practices. Provides readers with an overview with future directions and influence policy makers in order to develop practice. Focuses on an array of health conditions that can affect groups of the population, coincided with life issues and the care and family support received. Offers innovative methodological insights for prospective researchers in order to add to the existing evidence base.

In two freestanding volumes, Textbook of Neural Repair and Rehabilitation provides comprehensive coverage of the science and practice of neurological rehabilitation. Revised throughout, bringing the book fully up to date, this volume, Medical Neurorehabilitation, can stand alone as a clinical handbook for neurorehabilitation. It covers the practical applications of the basic science principles presented in Volume 1, provides authoritative guidelines on the management of disabling symptoms, and describes comprehensive rehabilitation approaches for the major categories of disabling neurological disorders. New chapters have been added covering genetics in neurorehabilitation, the rehabilitation team and the economics of neurological rehabilitation, and brain stimulation, along with numerous others. Emphasizing the integration of basic and clinical knowledge, this book and its companion are edited and written by leading international authorities. Together they are an essential resource for neuroscientists and provide a foundation of the work of clinical neurorehabilitation professionals.

Employment Issues and Multiple Sclerosis, 2nd Edition, is essential reading for any person with MS who has questions regarding employment and disability. Chapters cover everything from vocational rehabilitation to job placement to the laws covering employment. This updated edition includes: A NEW chapter detailing employee rights regarding medical leave, health insurance portability and accountability, and continuation of benefits; A NEW chapter on Social Security Disability Insurance programs; An expanded and updated chapter on the Americans with Disabilities Act; An expanded and updated chapter on employment services for people with MS; A completely updated chapter on policy, programming, and research recommendations to improve the rate of labor force participation of people with a chronic condition Intended for people with MS, their families, physicians, nurses, social workers, rehabilitation professionals, and others interested in the employment implications of MS, this comprehensive book is a basic source of information on matters of research and public policy. Multiple Sclerosis and Related Disorders focuses on the key topics a health care practitioner working with these patients needs to know in the evaluation and long-term management of neuroimmunological disorders. Information on disease history, pathophysiology and biology is included to provide clinicians with a framework for understanding current diagnosis, monitoring,

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and treatment strategies for these disorders. In addition to reviewing disease-modifying treatments, we have devoted significant focus to the symptoms that frequently manifest and their treatment options. Symptoms and functional

"MS is always in the back of your mind. If there is something you want to do, you always wonder if the MS will allow you do to it." —Darlene, living with MS for 22 years

Living with multiple sclerosis (MS) is challenging and multidimensional. MS pervades all aspects of life: one's body becomes unpredictable and unreliable, one's identity and sense of self are tested, and relationships with others often change. MS symptoms emerge and remit; limitations evolve and progress. MS rehabilitation is an active, person-centered, and goal-oriented process embedded within a respectful and collaborative partnership between the person with MS and the members of his or her rehabilitation treatment team. Using the International Classification of Functioning, Disability and Health (ICF) as a guiding framework, *Multiple Sclerosis Rehabilitation: From Impairment to Participation* provides a comprehensive and evidence-based resource to inform and guide clinical reasoning and decision making during each phase of the MS rehabilitation process, from initial referral to post-discharge follow-up. With an emphasis on the application of evidence throughout the entire MS rehabilitation process, the specific objectives of the book are to increase the understanding of: The nature and impact of specific impairments, activity limitations, and participation restrictions experienced by people with MS How to select and use valid, reliable, and relevant assessment tools to inform the development of rehabilitation goals and intervention plans, and to evaluate outcomes This book provides information about the nature and impact of MS on the daily lives of people living with the disease, describes evidence-based assessment processes and instruments, and summarizes current knowledge that can inform goal setting and intervention planning. Thoughtful application of the knowledge contained in this book will inform and guide rehabilitation providers to work collaboratively with people with MS and enable them to achieve their goals for participation in everyday life.

Packed with practical, up-to-date guidance, *Essentials of Physical Medicine and Rehabilitation*, 4th Edition, by Walter R. Frontera, MD, PhD; Julie K. Silver, MD; and Thomas D. Rizzo, Jr., MD, helps you prevent, diagnose, and treat a wide range of musculoskeletal disorders, pain syndromes, and chronic disabling conditions in day-to-day patient care. This easy-to-use reference provides the information you need to improve patient function and performance by using both traditional and cutting-edge therapies, designing effective treatment plans, and working with interdisciplinary teams that meet your patients' current and changing needs. An easy-to-navigate format provides quick access to concise, well-illustrated coverage of every essential topic in the field. Presents each topic in a consistent, quick-reference format that includes a description of the condition, discussion of symptoms, examination findings, functional limitations, and diagnostic testing. An extensive treatment section covers initial therapies, rehabilitation interventions, procedures, and surgery. Contains new technology sections in every treatment area where recently developed technologies or devices have been added to the therapeutic and rehabilitation strategies, including robotic exoskeletons, wearable sensors, and more. Provides extensive coverage of hot topics in regenerative medicine, such as stem cells and platelet rich plasma (PRP), as well as a new chapter on abdominal wall pain. Delivers the knowledge and insights of several new, expert authors for innovative perspectives in challenging areas. Offers a clinically-focused, affordable, and focused reference for busy clinicians, as well as residents in need of a more accessible and targeted resource.

Discover strategies to enhance quality of life and promote social and community participation for people with MS! *Occupational Therapy Practice and Research with Persons with Multiple Sclerosis* will familiarize you with the complex issues experienced by people who have multiple sclerosis, suggesting ways to enhance your practice or research with this population. This vital resource fills a void in the scarce literature on occupational therapy and multiple sclerosis,

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providing you with a unique single-source reference on the subject. This book compiles the work and contributions of experts from Europe, Australia, Canada, and the United States—from a variety of fields, including occupational therapy, medicine, physical therapy, and psychology. This thought-provoking book offers new perspectives on potential assessment and intervention ideas and provides information that could be used for broader program planning. This extensive resource will give you a deeper appreciation of the MS disease process and its influence on everyday living for persons with MS and their families. In this collection, you will learn more about: the health-related service needs of older adults with MS the range of fatigue assessment tools that are available for clinical and research applications the effect of wheelchair use on quality of life the implications of tremor on everyday activities the development and use of Lifestyle Management Programs© coping processes used by women with MS as they age the symptom and functional limitation profiles experienced by people with MS that lead to referrals to occupational therapy Occupational Therapy Practice and Research with Persons with Multiple Sclerosis contains charts, figures, graphs, and bibliographies to augment the research and studies found in this book. Also provided are contributions by Dr. Nicholas G. LaRocca—a well-known MS researcher—and Dr. Carol A. Gaetjens—an educator with MS. Occupational therapy students, clinicians, and researchers working with individuals and families who are affected by MS will find this book an important resource in their profession.

Recent developments in basic and applied science have led to better understanding of disease mechanisms and more efficient therapies for multiple sclerosis. The most effective way of managing these patients is through a carefully planned neurorehabilitation programme. The main aims are to reduce disability and handicap and improve functions through effective training, stimulating activity and social participation. As the first text on recovery of function and neurorehabilitation in MS, this book focuses on mechanisms of recovery, application of neuroplasticity to therapeutic interventions, and determination of the efficiency of these interventions. Basic principles of neurorehabilitation in MS are described, as well as techniques for treating specific syndromes which may occur in MS. Written and edited by leading clinicians and researchers, the book achieves an excellent balance between basic science, pathophysiology, and clinical rehabilitation. An essential resource for clinicians and therapists treating patients with multiple sclerosis, neurophysiologists, and health care advisors.

Neurological Rehabilitation is the latest volume in the definitive Handbook of Clinical Neurology series. It is the first time that this increasingly important subject has been included in the series and this reflects the growing interest and quality of scientific data on topics around neural recovery and the practical applications of new research. The volume will appeal to clinicians from both neurological and rehabilitation backgrounds and contains topics of interest to all members of the multidisciplinary clinical team as well as the neuroscience community. The volume is divided into five key sections. The first is a summary of current research on neural repair, recovery and plasticity. The authors have kept the topics readable for a non-scientific audience and focused on the aspects of basic neuroscience that should be most relevant to clinical practice. The next section covers the basic principles of neurorehabilitation, including excellent chapters on learning and skill acquisition, outcome measurement and functional neuroimaging. The key clinical section comes next and includes updates and reviews on the management of the main neurological disabling physical problems, such as spasticity, pain, sexual functioning and dysphagia. Cognitive, emotional and behavioural problems are just as important and are covered in the next section, with excellent chapters, for example, on memory and management of executive dysfunction. The final part draws the sections on symptom management together by discussing the individual diseases that are most commonly seen in neurorehabilitation and providing an overview of the management of the disability associated with those disorders. The volume is a definitive review of current neurorehabilitation practice

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and will be valuable to a wide range of clinicians and scientists working in this rapidly developing field. A volume in the Handbook of Clinical Neurology series, which has an unparalleled reputation as the world's most comprehensive source of information in neurology International list of contributors including the leading workers in the field Describes the advances which have occurred in clinical neurology and the neurosciences, their impact on the understanding of neurological disorders and on patient care

This is a comprehensive evidence-based guideline with sections covering the general principles of care, diagnosis and specific treatment, rehabilitation and maintenance.

This research topic aims at providing a state of the art update on neuroplasticity in humans with multiple sclerosis. It summarizes advances in plasticity research as achieved by a variety of techniques, in the motor as well as visual and cognitive domain. We are confident that this collection of articles broadens the view across systems and techniques and widens our understanding of this exciting field of research.

Looking at the latest advances in research into multiple sclerosis, from genetics to the use of magnetic resonance imaging and the organization of MS care.

This informative text details the many changes in everyday life as the result of injury, illness, or aging affecting the brain. Experts across brain-related fields trace mechanisms of conditions such as Parkinson's disease, TBI, and dementia as they impact regions of the brain, and resulting cognitive, emotional, sensory, and motor impairments as they contribute to deficits in personal and social functioning. In addition to symptoms and behaviors associated with insults to the brain (and the extent to which the brain can adapt or self-repair), chapters provide cogent examples of how societal and cultural expectations can shape the context and experience of disability. The book's focus on everyday activities brings new clarity to diverse links between symptoms and diagnosis, brain and behavior. Included in the coverage: ·The aging brain and changes in daily function. ·Stroke: impact on life and daily function. ·Traumatic brain injury (TBI) and the impact on daily life. ·Everyday life with cancer. ·Real-world impact of HIV-associated neurocognitive impairment. ·Disability and public policy in America. ·Living after brain changes, from the patient's perspective. Rich in empirical data and human insight, *Changes in the Brain* gives neuropsychologists, clinical psychologists, clinical social workers, and rehabilitation nurses a robust new understanding of the daily lives of patients, both in theory and in the real world.

Multiple sclerosis is a chronic and often disabling disease of the nervous system, affecting about 1 million people worldwide. Even though it has been known for over a hundred years, no cause or cure has yet been discovered-but now there is hope. New therapies have been shown to slow the disease progress in some patients, and the pace of discoveries about the cellular machinery of the brain and spinal cord has accelerated. This book presents a comprehensive overview of multiple sclerosis today, as researchers seek to understand its processes, develop therapies that will slow or halt the disease and perhaps repair damage, offer relief for specific symptoms, and improve the abilities of MS patients to function in their daily lives. The panel reviews existing knowledge and identifies key research questions, focusing on: Research strategies that have the greatest potential to understand the biological mechanisms of recovery and to translate findings into specific strategies for therapy. How people adapt to MS and the research needed to improve the lives of people with MS. Management of disease symptoms (cognitive impairment, depression, spasticity, vision problems, and others). The committee also discusses ways to build and financially support the MS research enterprise, including a look at challenges inherent in designing clinical trials. This book will be important to MS researchers, research funders, health care advocates for MS research and treatment, and interested patients and their families.

This easy-access guide summarizes the dynamic specialty of rehabilitation psychology, focusing on real-world practice in the medical setting. It begins by placing readers at the

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frontlines of practice with a solid foundation for gathering information and communicating effectively with patients, families, and staff. The book's topics run a wide gamut of patient conditions (neurological, musculoskeletal, cardiovascular), related problems (sleep and fatigue issues, depression) and practitioner responses (encouraging coping and compliance, pediatric and geriatric considerations). Models of disability and adaptation, review of competency concerns, and guidelines for group and individual therapy offer evidence-based insights for helping patients manage their health conditions, benefit from rehabilitation interventions, and prepare for their post-rehabilitation lives and activities. Coverage spotlights these core areas:

- Basics and biopsychosocial practicalities, from behavioral medicine and psychopharmacology to ethical and forensic issues.
- Populations, problems, and procedures, including stroke, TBI, substance abuse, transplants, and severe mental illness.
- Assessment and practical interventions such as pain, anxiety, cognitive functioning, and more.
- Consultation, advocacy, and interdisciplinary teams.
- Practice management, administration, and professional self-care.
- Research, technology, and program evaluation.

Practical Psychology in Medical Rehabilitation is an essential professional development tool for novice (and a refresher for veteran) psychologists and neuropsychologists, as well as rehabilitation physicians, nurses, therapists, psychiatrists, and social workers. It presents in depth both the hallmarks of the specialty and the nuts and bolts of being a valuable team player in a medical setting.

Cognitive impairment and dementia afflict a large number of people worldwide, being a major source of disability and loss of income. The amount of research on this subject is extensive, covering from basic to translational and clinical aspects. Therefore, it is hard to keep up with the amount of publications and novelties in this field, especially for the busy clinician. On the other hand, basic scientists often find it difficult to explore the vast clinical literature on this matter, as well as understand the clinical features of these disorders and to define the current research needs and directions. The main aim of this Frontiers Research Topic is to provide a solid and valuable platform of scientific synthesis regarding the current knowledge and literature on this theme, including clinical features, current and emergent diagnostic strategies, management (both present and future), and other important issues pertaining to cognitive impairment and dementia.

Revised and updated second edition of *Multiple Sclerosis and Related Disorders: Clinical Guide to Diagnosis, Medical Management, and Rehabilitation*, the only comprehensive but practical source of core information on multiple sclerosis and other demyelinating disorders. Intended as a ready reference for clinicians who provide ongoing care to MS patients, this book combines evidence-based science with experience-based guidance to present current standards and management protocols from leading MS centers. Beginning with the scientific underpinnings of MS for clinicians, the book proceeds through diagnosis, including initial symptoms, diagnostic criteria and classification, imaging, and differential diagnosis, and onto approved treatments for the various MS types and emerging therapies. Later parts of the book discuss symptom management and rehabilitation with chapters focusing on specific side effects, along with considerations for special populations, comorbidities, societal and family issues, and related autoimmune disorders that are often mistaken for MS. Throughout, chapters include lists of Key Points both for clinicians and for patients and families, and management pearls are boxed for quick reference and clinical utility. Illustrations, tables, algorithms, assessment scales, and up-to-date MRI imaging enrich the text, making this a wide-ranging clinical reference for all

members of the MS care team. New to the Second Edition: Includes summary recommendations from new AAN practice guidelines for use of DMTs All chapters updated to reflect the latest literature and diagnostic criteria Five entirely new chapters added to expand coverage of treatment, rehabilitation and symptom management, and special issues related to MS Treatment section has been completely revised to better capture current approaches to disease modifying therapies, with separate chapters devoted to injection and oral therapies, infusion therapies, and treatments for progressive forms of MS Related autoimmune diseases section significantly expanded to include transverse myelitis, autoimmune encephalitis, and neurosarcoidosis

The prevalence of adult cognitive disorders will dramatically rise over the next 25 years due to the aging population. Clinical research on adult cognitive disorders has rapidly evolved, including evidence of new adult cognitive disorders and greater insight into the clinical presentation, mechanism, diagnosis, and treatment of established diseases. The Oxford Handbook of Adult Cognitive Disorders is an up-to-date, scholarly, and comprehensive volume covering most diseases, conditions, and injuries resulting in impairments in cognitive function in adults. Topics covered include normal cognitive and brain aging, the impact of medical disorders and psychiatric illnesses on cognitive function, adult neurodevelopmental disorders, and various neurological conditions. This Handbook also provides a section on unique perspectives and special considerations for clinicians and clinical researchers, covering topics such as cognitive reserve, genetics, diversity, and neuroethics. Readers will be able to draw upon this volume to facilitate clinical practice (including differential diagnosis, treatment recommendations, assessment practices), and to obtain an in-depth review of current research across a wide spectrum of disorders, provided by leaders in their fields. The Oxford Handbook of Adult Cognitive Disorders is a one-of a kind resource appropriate for both clinicians and clinical researchers, from advanced trainees to seasoned professionals.

A unique analysis of the pediatric and adult manifestations of the most common neuropsychological conditions treated in clinical practice.

This volume describes the effects and consequences of multiple sclerosis (MS) on cognition. Authors summarize the impact of MS on behavioral problems, daily living, and related neuropsychiatric disorders, and offer clinical guidance for practitioners.

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