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role of neural stem cells / Stefano Pluchino, Roberto Furlan, Luca Muzio and Gianvito Martino ; Schwann cells as a potential cell-based therapy for multiple sclerosis / Violetta Zujovic and Anne Baron-Van Evercooren -- Assessment of Mechanisms and Disease Status. Magnetic resonance imaging to study white matter damage in multiple sclerosis / Massimo Filippi, Annalisa Pulizzi, and Marco Rovaris ; Magnetic resonance imaging to assess gray matter damage in multiple sclerosis / Massimo Filippi, Federica Agosta, and Maria A. Rocca ; Application of functional magnetic resonance imaging in multiple sclerosis / Massimo Filippi and Maria A. Rocca ; Functional magnetic resonance imaging in focal CNS damage / Patrizia Pantano and Eytan Raz ; Electrophysiological assessment in multiple sclerosis / Letizia Leocani and Giancarlo Comi ; Functional magnetic resonance imaging monitoring of therapeutic interventions in multiple sclerosis / Massimo Filippi and Maria A. Rocca -- Rehabilitation, General Aspects. How to measure the effects of rehabilitation / Stefan J. Cano and Alan J. Thompson ; Value and limits of rehabilitation in multiple sclerosis / Serafin Beer ; Prognosis in neurorehabilitation / Angelo Ghezzi and Annalisa Rizzo ; Clinical trials to test rehabilitation / Alessandra Solari -- Rehabilitation, Sectorial Interventions. Spasticity in multiple sclerosis / Mauro Zaffaroni ; Cognitive rehabilitation in multiple sclerosis / Dawn W. Langdon ; Disorders of mood and affect in multiple sclerosis / Anthony Feinstein and Omar Ghaffar ; Bladder dysfunction in multiple sclerosis / Clare J. Fowler and Gustav Kiss ; Ataxia and imbalance in multiple sclerosis / Luigi Tesio ; Sexual problems in multiple sclerosis / Per Olov Lundberg ; Bulbar problems in multiple sclerosis / Susan L. McGowan, Lucy Rodriguez and Clare Laing ; Back home / Carlo Pozzilli and Emanuela Onesti.

Sommario/riassunto

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.