

The Clinical Science of Neurologic Rehabilitation (Contemporary Neurology Series)

By Bruce H. Dobkin

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The Second Edition of this single-authored volume integrates multiple disciplines of basic and clinical research to help clinicians further develop the best possible care for the rehabilitation of patients with neurologic diseases. From the readable descriptions of the structures and functions of pathways for movement and cognition, the reader comes to understand the potential for training induced, pharmacologic, and near-future biologic interventions to enhance recovery. Dr. Dobkin shows how functional neuroimaging serves as a marker for whether physical, cognitive, and neuromodulating therapies work and how they sculpt the plasticity of the brain. Themes, such as how the manipulation of sensory experience can serve as a formidable tool for rehabilitation, run throughout the text, built from the level of the synapse to behaviors such as grasping, walking, and thinking. From illustrating how we may one day repair the brain and spinal cord to how to retrain spared and new pathways, Dr. Dobkin draws insights from a broad swath of fundamental research to give clinicians tools they can translate into bedside practices.

The book treats the medical complications and therapeutic approaches to neurologic diseases as an interconnected matrix. The management of common medical issues, impairments, and disabilities are described across diseases. Special problems posed by patients with stroke, myelopathies, brain injury, multiple sclerosis, degenerative diseases, and motor unit disorders receive individual comment. Short-term and delayed pulse interventions for patients, along with clinical trials, are dissected and put into perspective.

The First Edition of this book was titled *Neurologic Rehabilitation*. The title has been changed to reflect Dr. Dobkin's sense that fundamental research now drives the field of neurologic rehabilitation even more than it could in 1996 when the First Edition was published. The Second Edition features entirely new chapters on functional neuroimaging of recovery; neurostimulators and neuroprostheses; integration into the book of many new clinical and neuroscientific observations relevant to the clinician; and extensive updating and expansion of all chapters. Readers, whether clinicians serving the rehabilitation team, or students or researchers in neuroscience, neurology, physical medicine, allied health, or bioengineering, will acquire new insights and tools for creative pursuits that aim

to lessen the disabilities of patients.

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Editorial Review

Review

"...an essential introduction to the interfaces within restorative neurology...Dr. Dobkin should be saluted for his endeavour, which surely emphasizes the need for rehabilitation to be regarded as a neurological subspecialty." --*Brain*

"This is an excellent book and a major tour de force through the whole field of neurologic rehabilitation . . . a major achievement for a single author . . . The style is easy and the book is a pleasure to read . . . a landmark in the development of neurological rehabilitation . . . Bruce Dobkin should be congratulated." --*M.P. Barnes in Clinical Neurophysiology*

"Overall, the author does an excellent job of reviewing the literature regarding CFS and the immune system." --*Physical Therapy*

"Expect to spend a lot of time mulling over this volume" --*Neurology*

About the Author

Bruce H. Dobkin is at UCLA School of Medicine and Medical Center.

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Jack Unger:

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Eileen Matherly:

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