

## Neurological Rehabilitation Optimizing Motor Performance 2e

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The training guidelines outlined in Neurological Rehabilitation are based on biomechanical constructs and motor relearning research, applied to enhance brain reorganization and muscle contractility, and encourage functional recovery of the patient. It connects science and clinical practice enabling students and practitioners to develop their knowledge and use new clinical methods based on modern scientific understanding.

Neurological Rehabilitation: Optimizing motor performance ...

Description. Janet Carr and Roberta Shepherd head up a new team of eminent authors for the second edition of this definitive text on neurological physiotherapy. In the first edition, the authors described a model of neurological rehabilitation for individuals with motor dysfunction based on scientific research in the areas of neuromuscular control, biomechanics, motor skill learning, and the link between cognition and action, together with developments in pathology and adaptation.

Neurological Rehabilitation - 2nd Edition

Neurological Rehabilitation: Optimizing Motor Performance. Neurological Rehabilitation is a completely revised and thoroughly updated replacement for Physiotherapy in Disorders of the Brain which was published in June 1980.

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Neurological Rehabilitation: Optimizing Motor Performance ...

Neurological rehabilitation : optimizing motor performance / Janet H. Carr and Roberta B. Shepherd Treatment of cerebral palsy and motor delay / Sophie Levitt Cardiopulmonary physical therapy / edited by Scot Irwin, Jan Stephen Tecklin ; cover illustration by Jac...

Neurological rehabilitation : optimizing motor performance ...

Neurological Rehabilitation: Optimizing motor performance Paperback - Aug. 4 2010 by Janet H. Carr MA EdD (Columbia) FACP (Author), Roberta B. Shepherd MA EdD (Columbia) FACP (Author) 3.8 out of 5 stars 6 ratings. See all formats and editions Hide other formats and editions. Amazon Price New from Used from ...

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Carr, J. and Shepherd, R. (1998) Neurological Rehabilitation: Optimizing Motor Performance. Butterworth-Heinemann, Edinburgh, 241-264. has been cited by the following article: TITLE: Effectiveness of Modified Constraint Induced Movement Therapy and Bilateral Arm Training on Upper Extremity Function after Chronic Stroke: A Comparative Study

Carr, J. and Shepherd, R. (1998) Neurological ...

The training guidelines outlined in Neurological Rehabilitation are based on biomechanical constructs and motor relearning research, applied to enhance brain reorganization and muscle...

Neurological Rehabilitation, 2e - Janet H. Carr, Roberta B ...

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Neurological Rehabilitation: Optimizing motor performance ...

ABSTRACT BACKGROUND: Neurological rehabilitation and the contribution of physical therapy have changed considerably over the past decades as scientific and technological developments have enabled greater understanding of brain reorganization and the mechanisms of motor control, motor performance, impairments and adaptations.

The changing face of neurological rehabilitation

Description. Janet Carr and Roberta Shepherd head up a new team of eminent authors for the second edition of this definitive text on neurological physiotherapy. In the first edition, the authors described a model of neurological rehabilitation for individuals with motor dysfunction based on scientific research in the areas of neuromuscular control, biomechanics, motor skill learning, and the link between cognition and action, together with developments in pathology and adaptation.

Elsevier: Neurological Rehabilitation, 2nd Edition: Carr ...

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Neurological Rehabilitation - 9780702040511

Optimizing motor planning and performance in clients with neurological disorders. In M. V. Radomski & C. Trombly Latham (Eds.), Occupational therapy for physical dysfunction (pp. 614 – 674). Baltimore: Lippincott Williams & Wilkins.

Development and Preliminary Reliability of the Functional ...

Effectiveness of interventions to improve occupational performance for those with motor impairments after stroke: An evidence-based review. ... Cognitive and perceptual rehabilitation: Optimizing function. ... (2017).

Neurological approaches: Evaluation and intervention. ...

Glen Gillen, EdD, OTR, FAOTA | Vagelos College of ...

Objective: Patients with chronic stroke have been shown to have failure to release interhemispheric inhibition (IHI) from the intact to the damaged hemisphere before movement execution (premovement IHI). This inhibitory imbalance was found to correlate with poor motor performance in the chronic stage after stroke and has since become a target for therapeutic interventions.

Rethinking interhemispheric imbalance as a target for ...

Their textbook Neurological Rehabilitation: Optimizing Motor Performance, the product of a joint Rockefeller Grant, was first published in 1998 and revised in 2010.

Janet Carr - Wikipedia

If you have a condition that 's just beginning to affect your mobility and motor functions, you may be a good candidate for neurological rehabilitation from your physical therapist. When a surgical procedure or trauma affects your nervous system, advanced neurologic rehabilitation at a local Brooklyn neuro rehab center can provide the ...

Janet Carr and Roberta Shepherd head up a new team of eminent authors for the second edition of this definitive text on neurological physiotherapy. In the first edition, the authors described a model of neurological rehabilitation for individuals with motor dysfunction based on scientific research in the areas of neuromuscular control, biomechanics, motor skill learning, and the link between cognition and action, together with developments in pathology and adaptation. The new edition continues to advance this model while identifying and incorporating the many advances that have occurred in the last decade in the understanding and treatment of adults with

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neurological conditions, whether caused by accident or disease. The training guidelines outlined are based on biomechanical constructs and motor relearning research, applied to enhance brain reorganization and muscle contractility, and encourage functional recovery of the patient. It connects science and clinical practice enabling students and practitioners to develop their knowledge and use new clinical methods based on modern scientific understanding.

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 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

Authored by members of the British Bobath Tutors Association, Bobath Concept: Theory and Clinical Practice in Neurological Rehabilitation is a practical illustrated guide that offers a detailed exploration of the theoretical underpinning and clinical interventions of the Bobath Concept. The evolution of the Bobath concept is brilliantly captured in this volume. The recognition that the best inhibition may come from engaging the patient in normal activities is an example of the way one of the notions central to the original Bobath Concept has developed. In short, the Bobath Concept lies at the heart of an approach to neurorehabilitation that is ready to take advantage of the rapidly advancing understanding, coming from neuroscience, of brain function in, in particular, of the effects of and responses to damage, and the factors that may drive recovery. It is no coincidence that neuroplasticity figures so prominently in the pages that follow. Emeritus Professor Raymond Tallis BM BCh BA FRCP FMedSci LittD DLitt FRSA This book guides the reader through general principles to more specific application of neurophysiological principles and movement re-education in the recovery of important areas, including moving between sitting and standing, locomotion and recovery of upper limb function. Bobath Concept: Theory and Clinical Practice in Neurological Rehabilitation will be invaluable to undergraduate and qualified physiotherapists / occupational therapists and all professionals working in neurological rehabilitation. Covers the theoretical underpinning of the Bobath Concept. Presents a holistic, 24-hour approach to functional recovery. Focuses on efficient movement and motor learning, to maximise function. Forges links between theory and clinical practice. Illustrated throughout.

"Covers essential task-and context-specific exercises and training regimes for optimal functional recovery. Based on scientific rationale and the latest clinical research, this book emphasises the training of effective functional motor performance using methods that both provide a stimulus to the acquisition of skill and increase strength, endurance and fitness." --Cover.

Volume 2 of the Textbook of Neural Repair and Rehabilitation stands alone as a clinical handbook for neurorehabilitation.

The neuro rehab text that mirrors how you learn and how you practice! Take an evidence-based approach to the neurorehabilitation of adult and pediatric patients across the lifespan that reflects the APTA's patient management model and the WHO's International Classification of Function (ICF). You'll study examination and interventions from the body structure/function impairments and functional activity limitations commonly encountered in patients with neurologic disorders. Then, understanding the disablement process, you'll be able to organize the clinical data that leads to therapeutic interventions for specific impairments that can then be applied as appropriate anytime that impairment is detected, regardless of the medical diagnosis.

The definitive work on occupational therapy for physical dysfunction is back in a Fifth Edition, with reputable co-editors and outstanding clinical, academic, and consumer contributors. Through the Occupational Functioning Model, this edition continues to emphasize the conceptual foundation of practice. The text provides a current and well-rounded view of the field--from theoretical rationale to evaluation, treatment, and follow-up. New to this edition: cutting-edge therapies and up-to-date research findings, "International Classification of Functioning, Disability and Health" (ICIDH-2) language and concepts, assessment and intervention directed toward context, a two-color design, and abundant learning aids including case examples and procedures for practice.

Reflecting current practice with a renewed focus on function-based assessments and evidence-based interventions, Cognitive and Perceptual Rehabilitation: Optimizing Function includes all of the tools you need to make a positive impact on your patients' lives. This clinical resource summarizes, highlights, and constructively critiques the state of cognitive and perceptual rehabilitation. This text helps you enhance your patients' quality of life by promoting improved performance of necessary and meaningful activities, and decreasing participation restrictions. Evidence-based intervention tables focus on improving daily function through proven methods. Summary tables highlight each assessment's clinical utility and psychometric properties to provide you with the tools you need to choose the best assessment for each patient. An entire chapter on Application of Concepts features five case studies, each discussing background data and medical record review, evaluation findings, assessments, long-term goals, short-term goals, and interventions/functional activities to help you apply the theories and principles from the

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book to real-world situations. Handy learning aids including Key Terms, Learning Objectives, and Review Questions help you remember important information.

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