Lightweight Manual Wheelchair

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Pierson and Fairchild's Principles & Techniques of Patient Care - E-Book Elsevier Health Sciences

The Wheelchair Evaluation: A Clinician's Guide, Second Edition is an updated, practical, and concise reference on the wheelchair prescription process. It's perfect for students and clinicians in the health fields who work with physically disabled individuals in need of a wheelchair. This book is a portable, hands-on manual that implements a real-world approach to patient evaluation, choice of wheelchair components, documentation, and funding.

Manual Wheelchairs Elsevier Health Sciences

This book will provide an overview of the rehabilitation engineering field, including key concepts that are required to provide a solid foundation about the discipline. It will present these concepts through a mix of basic and applied knowledge from rehabilitation engineering research and practice. It's written as an introductory text in order to provide access to the field by those without previous experience or background in the field.These concepts will include those related to engineering and health that are necessary to understand the application of rehabilitation engineering to support human function.

Wheelchair Skills Assessment and Training CRC Press

The guidelines focus on manual wheelchairs and the needs of long-term wheelchair users. The recommendations are targeted at those involved in wheelchair services, ranging from design and planning, to providing or supplying wheelchairs and their maintenance.

Choosing a Wheelchair System Springer Publishing Company

Wheeled mobility or wheelchair use in the U.S. is at an all-time high and growing. A 2005 survey of noninstitutionalized Americans estimated that approximately 3.3 million people (1.4 % of the population) 15 years of age and older used a wheelchair or similar device. Of those 3.3 million, approximately 1.8 million were 65 years and older (5.2 % of that population). Among children under 15 years of age, an estimated 83,000 used a wheelchair or similar device (0.2 % of that population). A similar survey conducted in 2002 estimated use at 1.2 % of the population 15 years and older, 4.5 % of the population 65 years and older, and 0.2 % of the population under 15 years of age. An earlier survey (1994–1995 data) of noninstitutionalized individuals in the U.S. estimated that there were 1.6 million (0.6 %) wheelchair users of all ages including 88,000 under age 18 years (0.12 %) and 897,000 (2.87 %) 65 years of age and older. Of the total group of wheelchair users, 1.5 million used manual wheelchairs and 155,000 used electric wheelchairs. The leading conditions associated with wheelchair use included stroke, osteoarthritis, multiple sclerosis, absence or loss of lower extremity, paraplegia, orthopedic impairment of lower extremity, heart disease, cerebral palsy, rheumatoid arthritis, and diabetes. At the same time that the population of mobility-impaired individuals is growing, advances have been made in mobility device and component technology. Although difficult to quantify, there appears to be increased use of power mobility devices, including power wheelchairs and scooters or power-operated vehicles. Advances in wheeled mobility offer enhanced functionality. Mobility devices have been shown to increase the activity, participation, and quality of life of individuals with mobility limitations. The degree to which these wheeled mobility devices and components (notably postural seating and positioning systems) contribute to quality of life depends on the appropriateness of the wheeled mobility device selected for the patient and their utilization of the device. However, inappropriate mobility devices may result in harms (including overuse or repetitive strain injuries, pressure sores, falls, and accidents), equipment abandonment, and underutilization. Interest in identifying an evidence-based wheeled mobility service delivery process that could guide decisionmaking regarding coverage for individually configured mobility equipment and associated services, often referred to as Complex Rehab Technology (CRT), prompted the nomination of this topic. Evidence based guidelines for best practice might address areas such as critical components of the assessment and followup, selection of appropriate equipment based on patient needs, essential members of the service delivery team, provider qualifications, and frequency of reassessment. To address this need, we prepared a Technical Brief to identify and describe the literature and expert opinion regarding the process of wheelchair service delivery for long-term wheelchair users with complex rehabilitation needs (i.e., individuals with a primary diagnosis resulting from a congenital disorder, progressive or degenerative neuromuscular disease, or from certain types of injury or trauma who will require a wheelchair for mobility beyond a period of rehabilitation). The Brief provides background information on the wheeled mobility service delivery process for stakeholders interested in wheelchair service delivery, including researchers, patients, providers, suppliers, and payers of wheeled mobility. It also identifies patient, provider, supplier, and payer issues that may impact the service delivery process. We recognize that consumers may obtain wheeled mobility devices from a variety of sources. We have focused on service delivery for individuals whose complex rehabilitation needs most likely will require contributions from physicians, therapists, suppliers, and technicians.

The Massachusetts register Pax Press

The most comprehensive physical therapy text available on the topic, Orthotics & Prosthetics in Rehabilitation, 3rd Edition is your one-stop resource for clinically relevant rehabilitation information. Evidence-based coverage offers essential guidelines on orthotic/prosthetic prescription, pre- and post-intervention gait assessment and outcome measurement, and working with special populations. Comprehensive coverage addresses rehabilitation in a variety of environments, including acute care, long-term care and home health care, and outpatient settings. Authoritative information from the Guide to Physical Therapist Practice, 2nd Edition is incorporated throughout. World Health Organization (WHO) International Classification of Function model provides consistent language and an international standard to describe and measure health and disability from a biopsychosocial perspective. Case studies present real-life scenarios that demonstrate how key concepts apply to clinical decision making and evidence-based practice. A visually appealing 2-color design and a wealth of tables and boxes highlight vital information for quick reference and ease of use. Updated photos and illustrations reflect current clinical practice. Updated chapter on Assessment of Gait focuses on clinically useful outcome measures. Updated chapter on Motor Control and Motor Learning incorporates new insights into neuroplasticity and functional recovery. NEW! Integrated chapter on Lower Extremity Orthoses assists in clinical decision making about the best options for your patients. NEW! Chapter on Athletics after Amputation explores advanced training and athletics, including running and athletic competition to enhance the quality of life for persons with amputation. NEW! Chapter on the High Risk Foot and Would Healing helps you recognize, treat, and manage wounds for the proper fit and management of the patient. NEW! Chapter on Advanced Prosthetic Rehabilitation provides more thorough rehabilitation methods beyond the early care of persons learning to use their prostheses.

Orthotics and Prosthetics in Rehabilitation - E-Book World Health Organization

These Wheelchair provision guidelines aim to support improved accessto appropriate wheelchairs, for all those in need, including children, older persons, people with mobility disabilities, and those with chronic health conditions. They are relevant for all countries and apply to all wheelchair users and types of wheelchairs. They emphasize that the best outcomes in wheelchair access occur when wheelchair users have the benefit of an individual process of assessment, fitting, training and follow up, provided by trained personnel. Their purpose is to ensure that wheelchair users have timely access through wheelchair services that are people-centred and responsive to their needs. Target audiences are those with a role in planning, delivery, monitoring and evaluation of wheelchair provision. This includes policy-makers, wheelchair service personnel, and wheelchair user representative organizations.

The Manual Wheelchair Training Guide Elsevier Health Sciences

Gain a strong foundation in the field of orthotics and prosthetics! Orthotics and Prosthetics in Rehabilitation, 4th Edition is a clear, comprehensive, one-stop resource for clinically relevant rehabilitation information and application. Divided into three sections, this text gives you a foundation in orthotics and prosthetics, clinical applications when working with typical and special populations, and an overview of amputation and prosthetic limbs. This edition has been updated with coverage of the latest technology and materials in the field, new evidence on effectiveness and efficacy of interventions and cognitive workload associated usage along with enhanced color photographs and case studies - it's a great resource for students and rehabilitation professionals alike. Comprehensive coverage addresses rehabilitation in a variety of environments, including acute care, long-term care and home health care, and outpatient settings. Book organized into three parts corresponding with typical patient problems and clinical decision-making. The latest evidence-based research throughout text help you learn clinical-decision making skills. Case studies present real-life scenarios that demonstrate how key concepts apply to clinical decision-making and evidence-based practice. World Health Organization disablement model (ICF) incorporated to help you learn how to match patient's limitations with the best clinical treatment. Multidisciplinary approach in a variety of settings demonstrates how physical therapists can work with the rest of the healthcare team to provide high quality care in orthotic/prosthetic rehabilitation. The latest equipment and technology throughout text addresses the latest options in prosthetics and orthotics rehabilitation Authoritative information from the Guide to Physical Therapist Practice, 2nd Edition is incorporated throughout. A wealth of tables and boxes highlight vital information for quick reference and ease of use. NEW! Color photographs improve visual appeal and facilitates learning. NEW! Increased evidence-based content includes updated citations; coverage of new technology such as microprocessors, microcontrollers, and integrated load cells; new evidence on the effectiveness and efficacy of interventions; and new evidence on cognitive workload usage. NEW! Authors Kevin K Chui, PT, DPT, PhD, GCS, OCS, CEEAA, FAAOMPT and Sheng-Che (Steven) Yen, PT, PhD add their expertise to an already impressive list of contributors.

Guidelines on the Provision of Manual Wheelchairs in Less Resourced Settings National Academies Press

The most comprehensive physical therapy text available on the topic, Orthotics & Prosthetics in Rehabilitation, 3rd Edition is your one-stop resource for clinically relevant rehabilitation information. Evidence-based coverage offers essential guidelines on orthotic/prosthetic prescription, pre- and post-intervention gait assessment and outcome measurement, and working with special populations. Comprehensive coverage addresses rehabilitation in a variety of environments, including acute care, long-term care and home health care, and outpatient settings. Authoritative information from the Guide to Physical Therapist Practice, 2nd Edition is incorporated throughout. World Health Organization (WHO) International Classification of Function model provides consistent language and an international standard to describe and measure health and disability from a biopsychosocial perspective. Case studies present real-life scenarios that demonstrate how key concepts apply to clinical decision making and evidence-based practice. A visually appealing 2-color design and a wealth of tables and boxes highlight vital information for quick reference and ease of use. Updated photos and illustrations reflect current clinical practice. Updated chapter on Assessment of Gait focuses on clinically useful outcome measures. Updated chapter on Motor Control and Motor Learning incorporates new insights into neuroplasticity and functional recovery. NEW! Integrated chapter on Lower Extremity Orthoses assists in clinical decision making about the best options for your patients. NEW! Chapter on Athletics after Amputation explores advanced training and athletics, including running and athletic competition to enhance the quality of life for persons with amputation. NEW! Chapter on the High Risk Foot and Would Healing helps you recognize, treat, and manage wounds for the proper fit and management of the patient. NEW! Chapter on Advanced Prosthetic Rehabilitation provides more thorough rehabilitation methods beyond the early care of persons learning to use their prostheses.

Wheelchairs Paralyzed Veterans of Amer

The go-to resource for class, clinical, and practice…now in full color! A team of noted OTA and OT leaders and educators deliver practical, in-depth coverage of the most common adult physical conditions and the corresponding evidence-based occupational therapy interventions. The authors blend theory and foundational knowledge with practical applications to OTA interventions and client-centered practice. This approach helps students develop the critical-thinking and clinical-reasoning skills that are the foundation for professional, knowledgeable, creative, and competent practitioners. New & Updated! Content that incorporates language from the 4th Edition of the Occupational Therapy Practice Framework and aligns with the latest ACOTE standards New & Updated! Full-color, contemporary photographs that reflect real clients and OT practitioners in diverse practice settings New Chapters! Occupational Justice for Diverse and Marginalized Populations, Motor Control and Neurotherapeutic Approaches, Sexual Activity and Intimacy, Dementia: Understanding and Management, and The Influence of Aging on Occupational Performance “Evidence-Based Practice,” highlights recent research articles relevant to topics in each chapter, reinforcing the evidence-based perspective presented throughout the text. “Putting It All Together: Sample Treatment and Documentation” uses evaluation, treatment, and documentation based on one relevant case from each diagnosis chapter to connect what students are learning in the classroom and the lab to real-world, skilled, client-centered care. “Technology & Trends” highlights new and relevant technology or treatment trends and also shows how common technologies may be used in unique ways. Client examples provide context for how the conditions impact function and how to consider the person when doing an intervention. “Case Studies” based on real-life examples illustrate important learning points and feature questions to develop critical-thinking and problem-solving skills. Review questions at the end of each chapter assess progress, knowledge, and critical thinking while offering practice with certification-style questions.

Wheeled Mobility (Wheelchair) Service Delivery DIANE Publishing

The U.S. Census Bureau has reported that 56.7 million Americans had some type of disability in 2010, which represents 18.7 percent of the civilian noninstitutionalized population included in the 2010 Survey of Income and Program Participation. The U.S. Social Security Administration (SSA) provides disability benefits through the Social Security Disability Insurance (SSDI) program and the Supplemental Security Income (SSI) program. As of December 2015, approximately 11 million individuals were SSDI beneficiaries, and about 8 million were SSI beneficiaries. SSA currently considers assistive devices in the nonmedical and medical areas of its program guidelines. During determinations of substantial gainful activity and income eligibility for SSI benefits, the reasonable cost of items, devices, or services applicants need to enable them to work with their impairment is subtracted from eligible earnings, even if those items or services are used for activities of daily living in addition to work. In addition, SSA considers assistive devices in its medical disability determination process and assessment of work capacity. The Promise of Assistive Technology to Enhance Activity and Work Participation provides an analysis of selected assistive products and technologies, including wheeled and seated mobility devices, upper-extremity prostheses, and products and technologies selected by the committee that pertain to hearing and to communication and speech in adults.

Journal of Rehabilitation Research & Development Patient-Centered Guides

Note to Readers: Publisher does not guarantee quality or access to any included digital components if book is purchased through a third-party seller. This revised and greatly expanded sixth edition of Pediatric Rehabilitation continues to set the standard of care for clinicians and remains the premier reference dedicated to education and training in the field of pediatric rehabilitation medicine. Under the direction of a new editorial team, this text brings together renowned specialists from all sectors of the pediatric rehabilitation community to provide the most current and comprehensive information with evidence-based discussions throughout. The sixth edition encompasses substantial updates from beginning to end and addresses emerging topics in the field with eight entirely new chapters devoted to brachial plexus palsy, oncology, robotics, genetics, spasticity management, rheumatology, burns, and advocacy. Major revisions to chapters on spinal cord injuries, acquired brain injury, cerebral palsy, neuromuscular diagnoses, and medical care of children reflect recent advances and expand coverage to include pediatric stroke, anoxic brain injury, bone health, pain management, and more. Chapter pearls, detailed summary tables, and over 250 figures emphasize major takeaways from the text for readers. With contributors chosen both for their academic and clinical expertise, chapters offer a real hands-on perspective and reference the most up to date literature available. Pediatric Rehabilitation covers all aspects of pediatric rehabilitation medicine from basic examination and testing to in-depth clinical management of the full range of childhood disabilities and injuries. As the foundational reference dedicated to the field of pediatric rehabilitation medicine over 6 editions, the book provides a thorough and contemporary review of clinical practice principles and serves as the primary resource for trainees and clinicians in this area. Key Features: Thoroughly revised and expanded new edition of the seminal reference for the field of pediatric rehabilitation medicine Contains eight entirely new chapters to address areas of growing importance Increased coverage of core topics including brain injury and concussion in children, integrated spasticity management, lifespan care for adults with childhood onset disability, pediatric stroke, and much more 13 high-quality gait videos review ambulation in children and adults with cerebral palsy New editorial team and many new contributors provide new perspectives and a modern evidence-based approach Clinical pearls and highly illustrative tables and lists underscore most essential information

Journal of Rehabilitation R & D CRC Press

Details the prescription considerations for individuals with physical disabilities. Compares conventional and lightweight wheelchairs, and factors in functional assessment. Examines the technical aspects of seat cushion selection, factors that affect the ergonometrics of wheelchair operation, and the influence of powered mobility. Also covers wheelchair standards and current directions in wheelchair research. Appendix covers "Types of Wheelchairs". Over 100 photos, charts and drawings. Index.

Wheelchair Selection and Configuration Jones & Bartlett Learning

The longtime wheelchair user and ergonomics consultant guides the reader through the selection process, covering the different features and options available, wheelchair maintenance, and wheeling techniques.

Choosing a Wheelchair CreateSpace

Mobility is fundamental to health, social integration and individual well-being of the human being. Henceforth, mobility must be viewed as being essential to the outcome of the rehabilitation process of wheelchair dependent persons and to the successful (re-)integration into society and to a productive and active life. Many lower limb disabled subjects depend upon a wheelchair for their mobility. Estimated numbers for the Netherlands, Europe and USA are respectively 80.000, 2,5 million and 1,25 million wheelchair dependent individuals. Groups large enough to allow a special research focus and conference activity. Both the quality of the wheelchair, the individual work capacity, the functionality of the wheelchair/user combination, and the effectiveness of the rehabilitation programme do indeed determine the freedom of mobility. Their optimization is highly dependent upon a continuous and high quality research effort, in combination with regular discussion and dissemination with practitioners. The book intends to give a state of the art view on the current fundamental, clinical and applied research findings and their consequences upon wheelchair propulsion, arm work, wheelchair training and possible consequences of a wheelchair confined life style. Also its implications for rehabilitation, as well as alternative modes of ambulation and activity in the wheelchair confined population, such as functional electrical stimulation and its possible future developments, are dealt with.

Wheelchair provision guidelines Elsevier Health Sciences

Before you can master your role in physical therapy, you must first master the basics of patient care! Pierson and Fairchild's Principles & Techniques of Patient Care, 7th Edition provides a solid foundation in the knowledge and skills needed for effective patient care. Clear, step-by-step instructions show how to safely perform common procedures and tasks such as assessment of vital signs, positioning and draping, range of motion exercises, and patient transfer activities. Rationales make it easy to understand why specific techniques are used. Written by physical therapy experts Sheryl Fairchild and Roberta O'Shea, this book includes an enhanced eBook — free with each new print purchase — with video clips demonstrating procedures and techniques. Content based on the World Health Organization’s ICF model (International Classification of Functioning, Disability, and Health) — the model currently endorsed by the APTA and AOTA — ensures you are referencing the most current theories and practice guidelines of physical and occupational therapy. More than 800 full-color photographs illustrate the concepts and techniques used in the assessment and management of patients in the rehabilitation setting. Procedure boxes include clear guidelines for performing each step of patient care tasks such as proper lifting techniques, patient transfers, basic wound care, and assessment of vital signs. Insights into physiological principles and rationales explain why specific techniques and procedures are used. Guidelines, principles, and precautions boxes offer additional tips for optimal assessment and management of patients in the rehabilitation setting. Self-study and problem-solving activities include case studies at the end of each chapter to help you understand important concepts and practice your decision-making and problem-solving skills. Coverage of professionalism, professional values, and ethics discusses workplace guidelines and describes how to apply those guidelines to your patient interactions. NEW! Revised content provides the current information you need to be an effective practitioner in physical therapy and occupational therapy, and includes input from clinical experts. NEW! Content on COVID-19 includes instructions on donning and doffing PPE, and is aligned with the latest CDC guidelines. NEW! Updated patient questions and documentation guidelines on wound care are included. NEW! Coverage of preventive patient positioning and objectively assessing patient pain is updated and expanded. NEW sections address early mobilization and exercise in the ICU. NEW! Enhanced eBook version – included with print purchase – allows you to access all of the text, figures, and references from the book on a variety of devices. NEW! Video clips are included in the eBook, demonstrating techniques and procedures.

Mobility Device Use in the United States F.A. Davis

This text serves as a high-yield review of spinal cord injury medicine in a multiple choice question-based format. The content covered reflects key topics relevant to clinical practice and subspecialty certification through the American Board of Physical Medicine and Rehabilitation (ABPMR) Spinal Cord Injury (SCI) Medicine examination. The 22 chapters are arranged topically to address the full scope of information relevant to the field of spinal cord injury medicine. Included with each question is a corresponding in-depth explanation, as well as pertinent references to supporting literature. The questions and educational explanations are written by leading experts in the field of spinal cord injury medicine and are designed to be board-relevant in both content and style. This question bank should be of use to anyone wishing to test and expand their knowledge of spinal cord injury medicine, including therapists, medical students, residents, fellows, and attending physicians of any specialty.

Wheeled Mobility Biomechanics DIANE Publishing

Ensure successful wheelchair prescription. This practical, pocket-sized book will guide you through the wheelchair prescription process utilizing a real-world, easy-to-understand approach. Through this approach you will learn how to successfully evaluate and recommend a wheelchair for your patients.

Adult Physical Conditions Springer Nature

This is the definitive text for everyone concerned with wheelchair selection, including physical and occupational therapists, physiatrists, and other health care providers involved with helping patients to achieve optimal seating. Chapters discuss wheelchair measurement, engineering fundamentals, biomechanics, electronics, and standards. Various types of wheelchairs are considered, including manual, powered, specialized, and sports chairs the selection of seat cushions and specialized seating systems are considered in depth, and assessment and intervention are reviewed. The audience for this book includes undergraduate and graduate students studying occupational therapy, physical therapy, rehabilitation science, and rehabilitation engineering. It also is a suitable reference for professionals in engineering and the health professions. It assumes that the reader has a working knowledge of human anatomy, human physiology, and physics. Some exposure to clinical practice also is beneficial. Each chapter opens with a set of goals that orient the reader to the material covered. For example, the goals of the chapter Wheelchair Engineering Fundamentals are: To understand mechanical and material properties To understand the relationship between technology and its environment To know how to problem-solve and integrate technical and functional information To understand the roles, constraints, and perspectives of designers and fabricators Extensive illustrations guide the reader through all concepts of wheelchair design and prescription. "

The Promise of Assistive Technology to Enhance Activity and Work Participation Elsevier Health Sciences

For the manual wheelchair (MWC) user, loss of lower extremity function often places the burden for mobility and activities of daily living on the upper extremities. This e-book on Wheeled Mobility Biomechanics contains current research that provides insights into the mechanical demands and performance techniques during tasks associated with MWC. Our intent was to contribute to advancing the knowledge regarding the variables that promote or hinder an individual’s capacity to handle the daily manual wheeled mobility demands and gain greater insights into upper extremity loading consequences, predictors of pain onset and injury, and ultimately identify strategies for preserving health and functional mobility for the MWC user.

Wheeled Mobility Biomechanics IOS Press

Ideal for clinical settings, this unique, handheld reference provides the most vital details of assessment diagnosis and treatment in a portable, lay-flat format. The convenient organization with color-coded sections and information broken down into charts, tables, and lists makes it easy to find information quickly. With content compiled, created and reviewed by experts in PT practice and education, you'll have all of the information you depend on for academic and clinical success in one convenient reference! Coverage of preferred practice pattern key areas - including musculoskeletal, neuromuscular, cardiovascular and pulmonary, and integumentary - prepare you for situations you'll encounter in practice. Charts, tables, lists, and figures offer easy access to critical information, perfect for fast access in the field. Content on adult, pediatric and geriatric populations prepare you to provide the best care for each patient. Drug monographs include essential information on drugs that may affect physical therapy intervention. Tools for Practice section features important tools for clinical use including content on vital signs, lab values, common ICD-9 codes, American Sign Language, Spanish terminology, and drug monographs. A vibrant, full-color, user-friendly design with over 130 illustrations and color-coded sections makes it easy to find and understand information. Convenient, take-along format lays flat for easy reference in the busy clinical setting.