

REHABILITATION NOTES

REHABILITATION SECTION
BALTIMORE CITY MEDICAL SOCIETY

DOUGLAS G. CARROLL, M.D.
EDITOR

FUNCTIONAL EVALUATION: THE BARTHEL INDEX

*A simple index of independence useful in scoring improvement
in the rehabilitation of the chronically ill*

Since 1955, the chronic disease hospitals in Maryland (Montebello State Hospital, Deer's Head Hospital, and Western Maryland Hospital) have been using a simple index of independence to score the ability of a patient with a neuro-muscular or musculoskeletal disorder to care for himself, and by repeating the test periodically, to assess his improvement. The Index (BI) has also been taught to many nurses, who have been helpful in evaluating patients prior to admission to these hospitals and after discharge.

FLORENCE I. MAHONEY, M.D.,
AND
DOROTHEA W. BARTHEL, BA, PT

The values assigned to each item are based on time and amount of actual physical assistance required if a patient is unable to perform the activity. Full credit is not given for an activity if the patient needs even minimal help and/or supervision, i.e., if he cannot safely perform the activity without someone present in the room with him. Because of the time required to attend an incontinent patient and since he is not socially acceptable, continence was weighted heavily.

Environmental conditions may affect the patient's score. If he has special requirements (other than the usual home setting), his score will be lower when they are not met. Examples are: doorways wide enough for easy access by wheelchair; all rooms on the same level if he cannot walk; grab bars at the toilet and tub.

To be more valuable, an explanation of special environmental requirements should accompany the BI of each patient when these are indicated.

Each patient's BI is scored at the beginning of treatment in the Rehabilitation Service (PM&R), at intervals during the course of his rehabilitation, and at the time of maximum benefit. In this way, it is possible to determine how well and how rapidly he has progressed toward independence. Sometimes improvement does not show up because the presence of another person may still be required even though he does not actually give physical assistance. Usually lack of improvement in the BI after a reasonable period of treatment indicates poor potential for rehabilitation.

Functional Evaluation The Barthel Index

Donna Joy Cech, Suzanne Tink Martin



Functional Evaluation The Barthel Index:

Functional Evaluation, the Barthel Index Florence I. Mahoney, Dorothea W. Barthel, 1965 Functional Assessment and Outcome Measures for the Rehabilitation Health Professional Glen E. Gresham, 1997 Practical and unique this is the only book to cover the instruments used by all rehabilitation disciplines And better yet it is the only book to describe and or display instruments more than 40 that are used in general rehabilitation A leading edge resource Functional Assessment and Outcome Measures for the Rehabilitation Health Professional helps you select the best outcomes measurement instruments assess and measure function in physical social emotional and vocational areas and plan targeted interventions to promote independent living Readers learn how to choose the best of current functional assessment measures and recognize the advantages and disadvantages of functional assessment disease specific and general health measures **Oxford Handbook of Neuroscience Nursing** Sue Woodward, Catheryne Waterhouse, 2021 This handbook is for nurses needing practical guidance in clinical situations either as an aide memoire for the specialist nurse or an essential reference source for newly qualified nurses caring for people with neurological problems for the first time **Neurotrauma** Alex B. Valadka, Brian T. Andrews, 2011-01-01 Winner of Association of American Publishers Clinical Medicine Book Award 2005 Combining new evidence based literature with the hands on experience of leading specialists this book provides the practical approach clinicians need especially when dealing with an emergency situation Each chapter examines a question frequently encountered during neurotrauma care offering clear and succinct answers to core topics Most importantly internationally recognized experts explain why they agree or disagree with a specific study adding unique insights into vital patient management issues Special highlights Tightly focused chapters target key questions for quick and easy reference Answers reflect the best available data ensuring accuracy and underscoring the validity of the authors recommendations Top authorities in the field draw on their own clinical experience to provide differing viewpoints Valuable coverage of related topics such as resuscitation methods classification of head and spinal cord injuries imaging protocols for head injuries post acute care and more Through reliable data and respected opinions this text is sure to improve your diagnostic and decision making skills An ideal way to confer with the experts it belongs in the libraries of all neurosurgeons trauma specialists general surgeons neurologists and emergency room physicians **Health & Physical Assessment** Violet Barkauskas, 1998 Written by an all nurse author team Health and Physical Assessment presents a comprehensive approach to health assessment in which client health rather than a diagnosis is the focus In this book the client is perceived as a total entity rather than as an individual with a specific problem that the practitioner must diagnose Assessing health and identifying health strengths are emphasized and related to promoting and improving peoples health This edition features a new introductory chapter on clinical reasoning in determining health status giving readers an overview of the process of health assessment *Functional Movement Development Across the Life Span* Donna J. Cech, Suzanne Tink Martin, 2002-03-29 The

2nd edition of this expert text emphasizes normal development and function examining how function is attained and how it can be optimized across the life span Its logical organization and presentation equips readers with the background and tools needed to understand the components of functional movement A solid grounding in normal development including the cellular and systems changes that begin in the embryo and continue throughout life enables readers to recognize understand and appropriately treat abnormal motor function This new expanded edition features enhanced content related to development of specific age groups with a unique focus on the ongoing development of the healthy older adult Specifically the chapters dealing with the skeletal system the cardiovascular and pulmonary system and the nervous system have been extensively updated and more comprehensively illustrated

Measures of Need and Outcome for Primary Health Care

David Wilkin, Lesley Hallam, Marie-Anne Doggett, 1992 This is a user's guide to a variety of instruments designed to measure different aspects of patient outcomes in primary health care Each instrument reviewed is chosen on the basis of its reliability validity and appropriateness for use in primary health care settings

Clinical Neuropsychology of Intervention Barbara P. Uzzell, Yigal Gross, 2012-12-06 Neuropsychology has been concerned with brain behavior relationships Clinical neuropsychology has been concerned with application of relationships to clinical problems As interest in these topics continues a spin off from clinical neuropsychology has been the realization of the potential of the delineations of behavioral consequences of cerebral lesions for developing and evaluating restoration and compensation objectives Methods for these procedures are scattered in books journal articles or else unwritten and only in the minds of clinicians Questions need to be addressed regarding the kinds of assessment selections required the types of rehabilitation planning the influences of the environment communication and personality and the means of effectively evaluating rehabilitation procedures A useful book is needed by clinicians working in this area The purpose of this book is to consolidate in one volume current workable approaches of a subdiscipline within neuropsychology and related areas which we are calling Intervention Problems dilemmas solutions and choices are presented to the reader beginning to work in this fascinating area and to those of us already enthralled by previous developments and outcomes Workers with expertise in assessment for intervention and intervention strategies are chapter contributors who unravel issues provide empirically based theory illustrative data and case reports The volume begins with a chapter that emphasizes an awareness of the potential usefulness of pathophysiology and the recognition of spontaneous recovery in relationship to intervention Part II of the book is devoted to identifying and developing assessment techniques relevant for intervention

Documenting Functional Outcomes in Physical Therapy

Darlene L. Stewart, Susan H. Abeln, 1993 No matter where you work as a PT you must know how to document your services Proper documentation is essential because the majority of payment for PT services comes from third party payors and proper documentation promotes quality care Count on this vital resource for all the information you need to document your work effectively Case studies clearly demonstrate both appropriate and poor documentation Practical tips help you expedite the

claims process and guarantee a successful outcome

The Journal of Rheumatology, 1987

Functional Movement

Development Across the Life Span Donna Joy Cech, Suzanne Tink Martin, 2011-09-06 Providing a solid foundation in the normal development of functional movement **Functional Movement Development Across the Life Span** 3rd Edition helps you recognize and understand movement disorders and effectively manage patients with abnormal motor function It begins with coverage of basic theory motor development and motor control and evaluation of function then discusses the body systems contributing to functional movement and defines functional movement outcomes in terms of age vital functions posture and balance locomotion prehension and health and illness This edition includes more clinical examples and applications and updates data relating to typical performance on standardized tests of balance Written by physical therapy experts Donna J Cech and Suzanne Tink Martin this book provides evidence based information and tools you need to understand functional movement and manage patients functional skills throughout the life span Over 200 illustrations tables and special features clarify developmental concepts address clinical implications and summarize key points relating to clinical practice A focus on evidence based information covers development changes across the life span and how they impact function A logical easy to read format includes 15 chapters organized into three units covering basics body systems and age related functional outcomes respectively Expanded integration of ICF International Classification of Function aligns learning and critical thinking with current health care models Additional clinical examples help you apply developmental information to clinical practice Expanded content on assessment of function now includes discussion of participation level standardized assessments and assessments of quality of life scales More concise information on the normal anatomy and physiology of each body system allows a sharper focus on development changes across the lifespan and how they impact function **Handbook of Geriatric Assessment** Joseph J. Gallo, William Reichel, Lillian Andersen, 1995

Physical Examination and Health

Assessment Carolyn Jarvis, 2001-12-19 This comprehensive easy to read full color textbook is a standard in physical assessment that features a holistic approach and a strong nursing perspective Step by step guidelines demonstrate the skills necessary to take a complete health history and perform a thorough physical examination on clients of all ages and cultural backgrounds as well as pregnant women This edition includes over 240 new full color photographs and illustrations depicting a wide range of conditions It also contains a new chapter on the pregnant female Video Critical Thinking Questions in each body system chapter correspond with the Saunders Physical Examination and Health Assessment Series Nursing diagnoses are separated into Risk and Wellness categories This edition also includes updated appendices on the 1999 Recommended Childhood Immunization Schedule for the U S and the CDC Standard Precautions and Transmission Based Precautions Includes a CD ROM with case studies and a FREE SIMON website at www.harcourthealth.com SIMON Jarvis *Monitoring the Outcomes of Social Services: Preliminary suggestions* Annie Millar, Harry P. Hatry, Margo Koss, 1977

Cognitive

Neurorehabilitation Donald T. Stuss, Gordon Winocur, Ian H. Robertson, 1999-10-07 This is the first truly comprehensive

survey of cognitive rehabilitation spanning the spectrum from basic science to functional outcome The international team of expert authors provide a critical review of theoretical and methodological issues relating to specific rehabilitation procedures and also to programme organization and management The book is based on the twin premises that basic science is the foundation of rehabilitation and that successful outcome is dependent on the specificity of the rehabilitation In demonstrating this the book goes beyond cognitive rehabilitation treatments to cover biological psychological social and historical factors such as course of recovery mood and motivation family environment education and age With its emphasis on scientific principles multidisciplinary practice and functional outcome this book will serve as an essential resource for all scientists and clinicians concerned with cognitive deficits secondary to altered brain functioning and particularly to psychologists neurologists psychiatrists occupational therapists and physical therapists Disability Evaluation Stephen L. Demeter, Gunnar Andersson, 1996 This comprehensive reference thoroughly discusses the objective and subjective determination of disability Organized by region system it includes pathological conditions and common occupationally related injuries methods of physical examination radiographic testing and interpretation disability ratings and work rating information Also includes information on working with allied professions A Brandon Hill Title **Human Movement** Marion Trew, Tony Everett (MCSP.), 2005 The authors cover the anatomical physical and biomechanical basis for understanding human movement in everyday contexts with easy to follow text that is both detailed and well referenced Those involved in the study of human movement will find this an ideal introduction to the study of human movement and an excellent reference encouraging and directing further study BOOK JACKET *Health Assessment* Lois Malasanos, Kathryn Stoltenberg-Allen, 1990 Designed for students and beginning practitioners Provides theory and skills necessary to collect a comprehensive health history and to perform a complete physical examination Rehabilitation Nursing Shirley P. Hoeman, 1996 Textbook Monitoring the Outcomes of Social Services: A review of past research and test activities Annie Millar, Harry P. Hatry, Margo Koss, 1977

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