

Intrarater Reliability of Manual Muscle Test (Medical Research Council Scale) Grades in Duchenne's Muscular Dystrophy

The purpose of this study was to document the intrarater reliability of manual muscle test (MMT) grades in assessing muscle strength in patients with Duchenne's muscular dystrophy (DMD). Subjects were 101 boys, aged 5 to 15 years, who were participating in a double-blind, randomized trial to determine the effects of oral vitamin on muscle strength in patients with DMD. Four physical therapists, paired by the study, then observed (single-blind) examinations were performed within 5 days of one another by the same examiner initially and after 6 and 12 months of treatment. A total of 120 muscle groups were scored on each patient. 16 of these included, using a modification of the Medical Research Council scale, reliability of muscle strength grades observed for individual muscle groups and of isolated and muscle strength grades was analyzed using Cohen's weighted kappa. The reliability of grades for individual muscle groups ranged from .65 to .94, with the proximal muscles having the higher reliability values. The reliability of individual muscle strength grades ranged from .65 to .99, with those in the gravity-dependent range scoring the highest. We conclude that MMT grades are reliable for assessing muscle strength in boys with DMD when standardized examinations are performed by the same physical therapist. *Physical Therapy 72, March 1992, 115-120.*

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Key Words: Duchenne's muscular dystrophy, Manual muscle test, Medical Research Council scale, Strength assessment

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Physical therapists frequently use the manual muscle test (MMT) to clinically assess patients with neuromuscular deficits. Manual muscle testing was developed by Lovett and described by Wright¹ in 1912. This technique has been revised, increased, and promoted resulting in several methods from which to choose.²⁻⁶ Though each method has differing scales and symbols to represent grading criteria, all methods appear to be based on similar principles with five factors defining the criteria for the various muscle strength grades. These factors include gravity, the extent of arc of movement against gravity, and the amount of force applied by the examiner in opposition to the muscle group being tested. The differences

Reliability Of Manual Muscle Testing

John Edward Fox, Richard Jasper Day



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Validity and Reliability of Manual Muscle Testing Lam-Quynh Nguyen, 2005 Musculoskeletal Assessment Hazel M. Clarkson, 2000 Completely revised and updated this edition presents the principles and methodology of assessing both joint range of motion ROM goniometry and manual muscle strength for the head neck trunk and extremities Each chapter is devoted to a separate anatomical region and provides knowledge of pertinent surface anatomy and deep anatomy Excellent photography and illustrations enhance comprehension of techniques and serve as a self learning tool New to this edition New vertical format second color added to line art 200 new photographs detailed coverage of ROM and muscle length assessment and measurement for each body region comprehensive coverage of end feels for each joint motion and chapter relating assessment methods to treatment techniques and activities of daily living A useful resource for assessment and treatment

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Daniels and Worthingham's Muscle Testing - E-Book Marybeth Brown, Helen Hislop, Dale Avers, 2013-01-25 A practical handbook on evaluating muscular strength and function Daniels and Worthingham's Muscle Testing Techniques of Manual Examination and Performance Testing 9th Edition makes it easy to understand and master procedures in manual muscle testing and performance testing Clear illustrated instructions provide a guide to patient positioning direction of motion and direction of resistance In addition to muscle testing of normal individuals and others with weakness or paralysis this edition includes new coverage of alternative strength tests and performance tests for older adults and others with functional decline such as the inactive and obese Written by educators Helen J Hislop Dale Avers and Marybeth Brown this classic physical therapy reference now features an Evolve companion website with video clips demonstrating key muscle testing techniques Drawings and arrows along with clear written directions make it easy to understand and perform muscle testing procedures allowing you to assess deficits in strength balance and range of motion More than 600 illustrations clearly show testing sequences muscle anatomy and muscle innervation Video clips of over 100 muscle tests on the Evolve companion website demonstrate the art and technique of muscle testing in a clinical setting Details of muscle anatomy and innervation help in linking muscle topography with function Helpful Hints and Substitutions boxes provide additional tips and highlight muscle substitutions that may occur during a test to ensure greater accuracy in testing A constant reference

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pattern categories of the Guide to Physical Therapist Practice and uses the IFC model of the disabling process as it presents up to date evidence based coverage of treatment In this latest edition Suzann Campbell DeLapp Robert J Palisano and Margo N Orlin have added more case studies and video clips additional chapters and Medline linked references online and Evidence to Practice boxes to make it easy to find and remember important information Provides comprehensive foundational knowledge in decision making screening development motor control and motor learning the impairments of body function and structure and the PT management of pediatric disorders Reflects a family centered care model throughout to help you understand how to involve children and their caregivers in developing and implementing intervention plans Emphasizes an evidence based approach that incorporates the latest research for the best outcomes Follows the practice pattern guidelines of the Guide to Physical Therapist Practice 2nd Edition which sets the standard for physical therapy practice Features the International Classification of Function Disability and Health ICF of the World Health Organization WHO as the model for the disabling process emphasizing activity rather than functional limitations and participation rather than disability in keeping with the book s focus on prevention of disability Provides extensive case studies that show the practical application of material covered in the text and are often accompanied by online video clips illustrating the condition and its management Makes it easy to access key information with plenty of tables and boxes that organize and summarize important points Clearly demonstrates important concepts and clinical conditions you ll encounter in practice with over 800 illustrations Takes learning to a deeper level with additional resources on the Evolve website featuring Over 40 video clips that correspond to case studies and demonstrate conditions found in each chapter Helpful resources including web links Questions and exercises you ll find helpful when preparing for the pediatric specialist certification exam *Physical Rehabilitation* Susan B O'Sullivan, Thomas J Schmitz, George Fulk, 2019-01-25 Rely on this comprehensive curriculum spanning text and reference now and throughout your career You ll find everything you need to know about the rehabilitation management of adult patients from integrating basic surgical medical and therapeutic interventions to how to select the most appropriate evaluation procedures develop rehabilitation goals and implement a treatment plan Online you ll find narrated full color video clips of patients in treatment including the initial examination interventions and outcomes for a variety of the conditions commonly seen in rehabilitation settings *Pediatric Chiropractic* Claudia A. Anrig, Gregory Plaughter, 2022-02-12 The long awaited third edition of *Pediatric Chiropractic* takes the valuable second edition to a whole new level offering new chapters full color photos illustrations and tables to provide the family wellness chiropractor and the student of chiropractic a valuable reference manual covering all aspects of care for the pediatric and prenatal populations Internationally recognized authorities Claudia Anrig DC and Gregory Plaughter DC have invited the leaders in their fields to contribute to this precedent setting textbook and now offer even more valuable information for the practitioner **Daniels and Worthingham's Muscle Testing - E-Book** Dale Avers, Donovan J. Lott, Marybeth Brown, 2024-02-06 Daniels and Worthingham s Muscle

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