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Abbreviations: BM, inflammutory myogathy, DM, demutomyositis, PM, polmyositis, MMT, manual muscle testing, MMT8, short version of the of the RESEARCH ARTICLE

Manual muscle testing and hand-held dynamometry in people with inflammatory myopathy: An intra- and interrater reliability and validity study

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Abstract

Manual musde testing (MMT) and hand-held dynamometry (HHD) are commonly used in people with inflammatory myopathy (IM), but their clinimetric properties have not yet been sufficiently studied. To evaluate the reliability and validity of MMT and HHD, maximum isometric strength was measured in eight muscle groups across three measurement events. To evaluate reliability of HHD, intra-class correlation coefficients (IQC), the standard error of measurements (SEM) and smallest detectable changes (SDC) were calculated. To measure reliability of MMT linear Cohen's Kappa was computed for single muscle groups and ICC for total score. Additionally, correlations between MMT8 and HHD were evaluated with Spearman Correlation Coefficients. Fifty people with myositis (56±14 years, 76% female): were included in the study. Intra-and interrator reliability of HHD yielded excellent ICOs (0.75-0.97) for all muscle groups, except for interrater reliability of ankle extension (0.61). The corresponding SEMs% ranged from 8 to 28% and the SDCs% from 23 to 65%, MMT8 total score revealed excellent intra-and interrater reliability (ICC>0.9). Intrarater reliability of single muscle groups was substantial for shoulder and hip abduction, elbow and neck flexion, and hip extension (0.64-0.69); moderate for wrist (0.53) and knee extension (0.49) and fair for ankle extension (0.35). Interrater reliability was moderate for neck flexion (0.54) and hip abduction (0.44); fair for shoulder abduction, elbow flexion, wrist and ankle extension (0.20-0.33); and slight for knee extension (0.08). Correlations between the two tests were low for wrist, knee, ankle, and hip extension; moderate for elbow flexion, neck flexion and hip abduction; and good for shoulder abduction. In conclusion, the MMT8 total score is a reliable assessment to consider general muscle weakness in people with myositis but not for

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Validity and Reliability of Manual Muscle Testing Lam-Quynh Nguyen,2005 Guidelines for Chiropractic Quality

Assurance and Practice Parameters Scott Haldeman, David Chapman-Smith, Donald M. Petersen, 2005 The first ever practice guidelines by and for the profession These proceedings are the result of the landmark Mercy Center Consensus Conference in which chiropractic practitioners in the academic clinical political and regulatory sectors met to reach agreement on standards of practice producing guidelines for practice that provide a major step toward addressing the needs of the patient and assuring the quality and acceptance of chiropractic health services This publication represents the greatest consensus ever achieved by the profession and is a must have for every chiropractic student and practitioner

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 Daniels and Worthingham's Muscle Testing - E-Book Marybeth Brown, Helen Hislop, Dale for assessment and treatment 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 number clearly identifies each muscle in the body indexed in the Alphabetical List of Muscles by

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overlap of rheumatology with other disciplines With full colour illustrations throughout and a complementary online version the Oxford Textbook of Rheumatology Fourth Edition is an essential reference for all trainees and specialists in the field

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