



Ottation: Basidhung Pfister P. de firnin EO, Sterlielle I, Maurer B, de Be RA, Koods RH (2015) Manual musicle testing and hand-helid-dynamomeny in people with inflammatory myopathy. An intra- and interrater milability and validity study. PLoS ONE 13 (3): 4019-538. https://doi.org/10.1371/journal.pone.0195538.

Editor: Yth-Nam Jan, University of Binois at Ulbana-Champaign, UNITED STATES

Received: Suptember 7, 2017 Accepted: March 5, 2018 Published: March 29, 2018

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Data Availability Statement: At relevant data are within the paper.

Funding: The authors received no specific funding for this work.

Competing interests: The authors have declared that no competing interests exist.

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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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

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Table of Contents Validity Reliability Manual Muscle Testing

- 1. Understanding the eBook Validity Reliability Manual Muscle Testing
 - The Rise of Digital Reading Validity Reliability Manual Muscle Testing
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Validity Reliability Manual Muscle Testing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Validity Reliability Manual Muscle Testing
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Validity Reliability Manual Muscle Testing
 - Personalized Recommendations
 - Validity Reliability Manual Muscle Testing User Reviews and Ratings
 - Validity Reliability Manual Muscle Testing and Bestseller Lists
- 5. Accessing Validity Reliability Manual Muscle Testing Free and Paid eBooks
 - Validity Reliability Manual Muscle Testing Public Domain eBooks
 - Validity Reliability Manual Muscle Testing eBook Subscription Services
 - Validity Reliability Manual Muscle Testing Budget-Friendly Options
- 6. Navigating Validity Reliability Manual Muscle Testing eBook Formats

- o ePub, PDF, MOBI, and More
- Validity Reliability Manual Muscle Testing Compatibility with Devices
- Validity Reliability Manual Muscle Testing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Validity Reliability Manual Muscle Testing
 - Highlighting and Note-Taking Validity Reliability Manual Muscle Testing
 - Interactive Elements Validity Reliability Manual Muscle Testing
- 8. Staying Engaged with Validity Reliability Manual Muscle Testing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Validity Reliability Manual Muscle Testing
- 9. Balancing eBooks and Physical Books Validity Reliability Manual Muscle Testing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Validity Reliability Manual Muscle Testing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Validity Reliability Manual Muscle Testing
 - Setting Reading Goals Validity Reliability Manual Muscle Testing
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Validity Reliability Manual Muscle Testing
 - Fact-Checking eBook Content of Validity Reliability Manual Muscle Testing
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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