

Clinical Reliability of Manual Muscle Testing

Middle Trapezius and Gluteus Medius Muscles

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The purposes of this study were to develop a protocol to examine the reliability of manual muscle testing in a clinical setting and to use that protocol to assess the interrater reliability of manually testing the strength of the middle trapezius and gluteus medius muscles. One hundred ten patients with various diagnoses participated as subjects, and 11 physical therapists participated as examiners in this study. The results showed that interrater reliability for right and left middle trapezius and gluteus medius muscles was low. The percentage of therapists obtaining a rating of the same grade or within one third of a grade ranged from 50% to 60% for the four muscles. This study indicates that using manual muscle testing to make accurate clinical assessments of patient status is of questionable value.

Key Words: Manual muscle testing, Muscle hypotonia, Physical therapy.

Manual muscle testing is an important clinical tool used by physical therapists to determine a patient's muscle strength. Muscle testing originated in the United States in the early 1900s during the study of muscle function in patients with poliomyelitis. Despite the change in the role of manual muscle testing with the end of the last poliomyelitis epidemic in this country, it remains an important clinical tool for assessing the muscular causes of movement dysfunction. Testing of muscles is considered to be an essential prerequisite for treatment program planning and modification. The results of manual muscle testing also are used to make clinical judgments concerning the patient's progress or deterioration, as well as to assess the effectiveness of a particular treatment.

The study of the reliability of examiners performing manual muscle tests is

necessary if the tests are to be used. Manual muscle testing reliability in a clinical setting has been studied minimally. Lillienfeld et al found muscle test grades from Zero to Normal assigned by 12 to 39 examiners in four different trials to be within one grade, although the testing method was controlled because the examiners were trained by the same instructor.¹ Iddings et al also found manual muscle testing to be reliable among 10 examiners whose ratings were within one grade in 90.6% of the trials.² All of the subjects in both of these studies had the diagnosis of poliomyelitis, and the examiners were highly skilled in manual muscle testing.

The reliability of manual muscle tests has been the most difficult to achieve for grades greater than Fair because of the examiner's subjective judgment of the amount of resistance applied during the test. One of the problems central to manual muscle testing is the variable "frame of reference" for making an assessment. Such subjective judgments include determining what is normal muscle strength for an individual given the person's age and size, in addition to the relative strengths of the tester and patient.³⁻⁶

Many other factors influence the reproducibility of a manual muscle test. The testing method may vary among therapists (eg, Kendall and McCreary⁷ vs Daniels and Worthingham⁸), both because the therapists' training may have differed and because physical therapists tend to develop their own techniques and standards for grading muscle

strength. Other variables that influence the accuracy of a muscle test are 1) the point and line of force application, 2) the magnitude of resistive force, 3) the speed of resistive force application, 4) the duration of the contraction, 5) the degree of cooperation from the patient, 6) fatigue, 7) various distracting influences, 8) the type of instructions given, 9) the tone of the therapist's voice, and 10) the amount of interaction between the therapist and patient.^{4,9-12}

Beasley attempted to increase objectivity in manual muscle testing by developing a standardized scale of norms for muscle strength.¹³ Using an electronic myodynamograph, Beasley found a discrepancy between the percentage of Normal strength assigned in a manual muscle test and the percentage of strength found by a quantitative measure.¹⁴ The Good muscle strength group, usually rated at 75% of Normal in the manual muscle testing system,⁷ had only 43% of the Normal value on Beasley's standardized scale. The Fair group had a rating of only 9% of Normal, rather than 50% of Normal usually assigned. The Poor group, ordinarily rated at 25% of Normal on the manual scale, had a rating of only 2.6% of Normal on the standardized scale. The standard deviations showed considerable overlap in the percentage of Normal scores in grades below Fair, indicating poor differentiation in grades below Fair, the range in which manual muscle testing supposedly is more accurate.¹⁴

The purposes of this study were to develop a protocol to examine the reli-

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