

# MANUAL MUSCLE TESTING PROCEDURES

## Key to Muscle Grading

	Function of the Muscle	Grade		
<b>No Movement</b>	No contractions felt in the muscle	0	0	Zero
	Tendon becomes prominent or feeble contraction felt in the muscle, but no visible movement of the part	T	1	Trace
<b>Test Movement</b>	<b>MOVEMENT IN HORIZONTAL PLANE</b>			
	Moves through partial range of motion	1	2-	Poor-
	Moves through complete range of motion	2	2	Poor
	<b>ANTIGRAVITY POSITION</b>			
	Moves through partial range of motion	3	2+	
<b>Test Position</b>	Gradual release from test position	4	3-	Fair-
	Holds test position (no added pressure)	5	3	Fair
	Holds test position against slight pressure	6	3+	Fair+
	Holds test position against slight to moderate pressure	7	4-	Good-
	Holds test position against moderate pressure	8	4	Good
	Holds test position against moderate to strong pressure	9	4+	Good+
	Holds test position against strong pressure	10	5	Normal

# How To Do Manual Muscle Testing

**John Edward Fox, Richard Jasper Day**



## **How To Do Manual Muscle Testing:**

*Daniels and Worthingham's Muscle Testing: Techniques of Manual Examination and Performance Testing, 9e* Helen Hislop, 2013-09-01 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 Region as well as in the Ready Reference Anatomy Manual on Evolve to speed cross referencing and help you quickly identify any muscle

*Muscles in Action* Joan H. Cole, Anne L. Furness, Lance T. Twomey, 1988 This work is designed to offer students in a variety of disciplines a structured introduction to the evaluation of strength and function of the muscles of the human body and to be an easy reference for the clinician in practical situations

*Daniels and Worthingham's Muscle Testing E-Book* Marybeth Brown, Dale Avers, 2018-06-28 A practical handbook on evaluating muscular strength and function Daniels and Worthingham's Muscle Testing Techniques of Manual Examination and Performance Testing 10th Edition helps you 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 coverage of alternative strength tests and performance tests for older adults and others with functional decline such as the inactive and obese The tenth edition also includes coverage of muscle dynamometry and a sampling of ideal exercises Updated by educators Dale Avers and Marybeth Brown this classic physical therapy reference once again features a companion website with many new video clips demonstrating the latest muscle testing procedures and alternatives to muscle testing In addition two online only chapters Cranial Nerve and Ready Reference Anatomy have been added 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 500 illustrations clearly show testing sequences muscle anatomy and muscle innervation Chapters on performance testing cover functional strength testing in older adults and those with functional decline and testing muscle performance in various clinical settings Chapters on manual muscle testing address when to use manual muscle testing the limitations of manual muscle testing and alternatives to manual muscle testing 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 Region as well as in the Ready Reference Anatomy Manual on Evolve to speed cross referencing and help you to quickly identify any muscle NEW Content on the muscle dynamometer and muscle dynamometry data introduces you to muscle dynamometry including muscle dynamometer methods and results with each muscle NEW Video clips demonstrate the latest muscle testing techniques and alternative muscle testing procedures in a clinical setting NEW Ideal exercises for selected muscles thoroughly explain procedures based on the literature NEW Additional Video Educational Content box alerts you when videos associated with that chapter are available to view

*Daniels and Worthingham's Muscle Testing - E-Book* Dale Avers, Donovan J. Lott, Marybeth Brown, 2024-02-06 Daniels and Worthingham's Muscle Testing 11th Edition offers the clear information needed to master procedures and enhance clinical decision making in manual muscle testing and performance testing Comprehensive discussion of the value of strength testing with clear illustrated instructions provide a detailed guide to patient positioning clinician instructions and application of skill In addition to updated muscle testing of normal individuals and others with weakness or paralysis this edition includes updated information on alternative strength and performance tests for all adult populations Updated comprehensive coverage for muscle dynamometry and ideal exercises enhances this text's relevance for today's clinician An eBook version included with print purchase provides access to all the text figures and references with the ability to search customize content make notes and highlights and have content read aloud Drawings and arrows along with clear written directions make it easy to understand and perform muscle testing procedures to assess deficits in strength balance and range of motion More than 500 illustrations clearly show testing sequences muscle anatomy and muscle innervation Content on the muscle dynamometer and muscle dynamometry data introduces you to muscle dynamometry including muscle dynamometer methods and results with each muscle Ideal exercises for selected muscles thoroughly explain procedures based on the literature Chapter on functional performance testing covers functional strength testing in older adults and those with functional decline and testing muscle performance in various clinical settings Chapter on strength testing for active populations includes a variety of tests appropriate for many settings with reference data for comparison Chapters on manual muscle testing address how to enhance the reliability and validity of manual muscle testing

and other practical considerations of manual muscle testing Details of muscle anatomy and innervation help in linking muscle topography with function Clinical Relevance and Substitutions boxes provide additional tips and highlight muscle substitutions that may occur during a test to ensure greater accuracy A constant reference number clearly identifies each muscle in the body indexed in the Alphabetical List of Muscles by Region as well as in the Ready Reference Anatomy chapter in the eBook included with print purchase to speed cross referencing and help you quickly identify any muscle Updated content throughout provides the most current information needed to be an effective practitioner Updated references ensure content is current and applicable for today s practice NEW eBook version included with print purchase provides access to all the text figures and references with the ability to search customize content make notes and highlights and have content read aloud Plus the eBook includes video clips and bonus Ready Reference Anatomy and Assessment of Muscles Innervated by Cranial Nerves content

Fundamentals of Musculoskeletal Assessment Techniques M. Lynn Palmer, Marcia E. Epler, Marcia F. Epler, 1998 Organized by region this text provides the fundamentals of evaluation and examination techniques of the musculoskeletal system Each region begins with step by step instructions for goniometry manual muscle testing muscle length joint accessory motions and special orthopedic tests Special discussions of posture and gait analysis are also included New in this edition is a chapter on Assessment of Pain The discussion on the Spine has been expanded to three chapters Cervical Thoracolumbar Spine and Sacroiliac Joint Compatibility BlackBerry OS 4 1 or Higher iPhone iPod Touch 2 0 or Higher Palm OS 3 5 or higher Palm Pre Classic Symbian S60 3rd edition Nokia Windows Mobile Pocket PC all versions Windows Mobile Smartphone Windows 98SE 2000 ME XP Vista Tablet PC

**Manual Muscle Testing** Adele J. B. Colthurst, Kathryn A. Falconer, 1969

**Fundamentals of the Physical Therapy Examination** Stacie J. Fruth, 2017-03-09

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*Muscle and Sensory Testing - E-Book* Nancy Berryman Reese, 2020-04-21

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dynamometry sensory and neurologic testing proper patient and clinician positioning and force application

*Cranial Manipulation* Leon Chaitow, 2005-01-01 This expertly authored book is a valuable clinical manual for therapists interested in cranial manipulation a fast growing area of manual therapy practice The new edition presents the latest thinking on the use of this valuable approach supported by the most up to date research evidence related to its use Osteopathic biomechanical and biodynamic concepts are thoroughly examined in addition to chiropractic and dental approaches involving cranial and cranio facial manipulation The book s unique approach explores both soft tissue and osseous applications and provides guidance on which option to select in different clinical situations Descriptions and explanations of techniques are supported by high quality illustrations a CD ROM containing actual video demonstrations and practical exercises integrated within the text Cranial osteopathic cranio sacral sacro occipital chiropractic cranio facial and dental methods and perspectives are explained and compared Evidence based coverage highlights the clinical relevance of the latest research findings Both osseous and soft tissue assessment and treatment options and offers guidance on appropriate selection Clear line drawings supplement the text Important discussions of theory support guidelines for putting concepts into practice Numerous exercises on palpation assessment and treatment allow the reader to practice techniques and check their understanding as they go Written by one of the most highly respected practitioners in the field A companion CD ROM contains the entire text as well as video segments demonstrating how to perform the technique Icons in the text direct readers to video footage on the CD ROM that demonstrates the technique as it s described Expanded information is provided on the use of this technique with children A question and answer format has been incorporated into several chapters A new chapter addresses conditions most commonly treated successfully with this technique New two color design clarifies the illustrations and makes the text easy to follow New contributed chapters discuss the scope of cranial work the biodynamic model of osteopathy in the cranial field chiropractic in the cranial field the link between cranial dysfunction and the teeth from a dental perspective

Essentials of Rehabilitation Research Richard P Di Fabio, 2012-09-07 Enhance your clinical practice and your understanding of rehabilitation literature through applied statistics Step by step this interactive learning experience makes clinically relevant statistical procedures easier to understand organize interpret and use when evaluating patients and the effectiveness of your practice Only statistical procedures with direct clinical application have been selected to guide you through patient assessments selecting the best tools for your practice enhancing your understanding of predicting prognosis and responders to treatment and outlining a method to critique clinical practice guidelines With this reader friendly real world approach you ll be able to meet the need for evidence to support your practice gain a deeper understanding of clinical research and systematically evaluate patient outcomes

*Kinesiology for Occupational Therapy* Melinda Rybski, 2024-06-01 Kinesiology for Occupational Therapy Third Edition covers the theoretical background for understanding the kinematics and kinetics of normal human physiological movement Each specific joint is assessed in terms of musculoskeletal function

movements possible and an overview of pathology that may develop Dr Melinda Rybski covers four occupational therapy theories related to functional motion that are important for occupational therapists to know This Third Edition has been updated to reflect the current field and includes new information that has emerged in recent years New in the Third Edition Content closely follows AOTA s Occupational Therapy Practice Framework and Occupational Therapy Vision 2025 Updated and more extensive provision of evidence that summarizes key findings in current literature New theories are presented in the Intervention sections Extensive joint specific and theory based assessments are provided Interventions described are occupation based process based Kinesiology concepts presented in a practical useable way Expanded chapters for Spine and Thorax and Hip and Pelvis Included with the text are online supplemental materials for faculty use in the classroom Kinesiology for Occupational Therapy Third Edition clearly outlines the need for an understanding of kinesiology in occupational therapy providing occupational therapists with the evidence necessary to support their intervention strategies

**Pedretti's Occupational Therapy - E-Book** Heidi McHugh Pendleton, Winifred Schultz-Krohn, 2011-12-20 Chapter on polytrauma post traumatic stress disorder and injuries related to the War on Terror teaches you how to provide OT services to this unique population Content covers new advances in prosthetics and assistive technologies and provides more up to date assessment and interventions for TBI problems related to cognitive and visual perception Full color design visually clarifies important concepts Video clips on the companion Evolve website vividly demonstrate a variety of OT interventions

**Energy Psychology** Fred P. Gallo, 2004-12-28 Energy Psychology Explorations at the Interface of Energy Cognition Behavior and Health Second Edition introduces the exciting new paradigm of energy psychology and presents the latest research on the subject This second edition begins by tracing the roots of energy psychology and contrasting them with contemporary approaches and the **Encyclopedia of the Neurological Sciences**, 2014-04-29 The Encyclopedia of the Neurological Sciences Second Edition Four Volume Set develops from the first edition covering all areas of neurological sciences through over 1000 entries focused on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience The contributing authors represent all aspects of neurology from many viewpoints and disciplines to provide a complete overview of the field Entries are designed to be understandable without detailed background knowledge in the subject matter and cross referencing and suggested further reading lead the reader from a basic knowledge of the subject to more advanced understanding The easy to use encyclopedic dictionary format of the Encyclopedia of the Neurological Sciences Second Edition features alphabetic entries extensive cross referencing and a thorough index for quick reference The wealth of information provided by these four volumes makes this reference work a trusted source of valuable information for a wide range of researchers from undergraduate students to academic researchers Provides comprehensive coverage of the field of neurological science in over 1 000 entries in 4 volumes Encyclopedic dictionary format provides for concise readable entries and easy searching Presents complete up to date information on 32

separate areas of neurology Entries are supplemented with extensive cross referencing useful references to primary research articles and an extensive index *Fundamentals of Tests and Measures for the Physical Therapist Assistant* Stacie J. Fruth, Carol Fawcett, 2019-02-26 *Fundamentals of Tests and Measures for the Physical Therapist Assistant* provides students with the tools required to interpret the physical therapy evaluation and replicate the measurements and tests This text guides students in learning how to utilize case information and documentation furnished by the PT to assist in the follow up treatment *Sports Medicine* Ramon Hines, 2018-01-24 The phrase Sports Medicine is not specific to one career profession It instead encompasses a group of professionals from various disciplines whose focus is the health of an athlete Athletes can be all ages and play on all different levels A person interested in becoming an orthopedic sports medicine specialist must complete four years of medical school After their undergraduate schooling is completed training continues with a five year residency in orthopedics In order to sub specialize which is the case with an orthopedic sports medicine another two to four years of training is required This book is a practical guide to the field of sports science and the treatment of sports injuries Written for students in sports science and medicine trainees and specialists in sports medicine and related disciplines The book presents the clinical management of both acute and chronic sports injuries and medical problems alongside the background and basic science of sports medicine Hopefully the present book will be useful for the students of physical education and sports sciences and other related courses **Fundamentals of Hand Therapy - E-Book** Cynthia Cooper, 2013-10-25 NEW Chapters on yoga and pilates provide guidance into new ways to treat upper extremity problems NEW Chapter on wound care gives you a thorough foundation on how wounds impact therapeutic outcomes NEW Chapter on orthotics has been added to cover basic splinting patterns NEW Online resources help assess your understanding and retention of the material Sports Medicine Dr. Aruna Dogra, 2021-05-17 Sports medicine also known as Sport and Exercise Medicine SEM is a branch of medicine that deals with physical fitness and the treatment and prevention of injuries related to sports and exercise Although most sports teams have employed team physicians for many years it is only since the late 20th century that sports medicine has emerged as a distinct field of health care Sports medicine specializes in preventing diagnosing and treating injuries related to participating in sports and or exercise specifically the rotation or deformation of joints or muscles caused by engaging in such physical activities The sports medicine team includes specialty physicians and surgeons athletic trainers physical therapists coaches other personnel as well as the athlete himself herself Because of the competitive nature of sports a primary focus of sports medicine is the rapid recovery of patients which drives many innovations in the field Sports medicine tries to provide the environment so that one s genetic potentials are fully realized Any disease or injury that has the potential to influence the sports performance is covered under sports injuries The present book not only describes sports injuries in simple language but also the mechanism of such injuries A Physiotherapist's Guide to Clinical Measurement John Edward Fox, Richard Jasper Day, 2009-03-27 A Physiotherapist's Guide to Measurement

is an essential tool for both the student and clinician who will gain ready access to a wide range of common measurement techniques This exclusive handy guide gives detailed images of the various measuring methods used in practice such as goniometric measurement of all the main joints lower and upper limb girth measurements manual muscle testing of all major muscle groups spinal measurements spirometry respiratory function and many more Each illustration is accompanied by concise but clear instructional text Additionally reference tables cover the aims methodology and results of research summarising studies on the reliability and validity of a particular measuring tool Highly illustrated with clear step by step guidance Anatomy reviews for each region Observational checklist to facilitate peer review and student s performance Space to record a simulated patient record and further notes Spiral binding allows for easy lie flat reference

[The Student Physiotherapist's Companion: A Case-Based Test-Your-Knowledge Guide - E-Book](#) Stuart Porter,2025-09-04 This expert guide offers a new approach to physiotherapy education It supports you to formulate your own approach to different scenarios then compare this with what the experts say helping you learn the facts and how to problem solve at the same time More than 50 chapters cover a wide variety of topics that physiotherapists will come across in practice including the ICU paediatrics women s health and disability scenarios Each presents a case study and asks you to develop a diagnosis and treatment plan followed by the expert view at the end of each case The Student Physiotherapist s Companion is produced by some of the UK s leading physiotherapy experts including consultants academics managers and clinical interest groups many of them writing about scenarios that do not appear in any other textbook More than 50 chapters written by experts in their field Written with physiotherapy students in mind addresses your specific needs Illustrations support understanding Varied case studies help to develop a wide range of expertise across different settings

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