Fascial Stretch Therapy

**Fascial Stretch Therapy**

Gua sha - E-Book

**Short-Term and Lasting Effects of Instrumented-Assisted Soft Tissue Mobilization Technique in Subjects with Restricted Ankle Dorsiflexion**

The Acute Effect of a Single Treatment of Graston Instrument-assisted Soft Tissue Mobilization and Stretching on Active Knee Extension 

**Fascia: The Tensional Network of the Human Body - E-Book**

**Trigger Point Dry Needling, An Evidence and Clinical-Based Approach,** Routledge

**Handbook of Sports Therapy, Injury Assessment and Rehabilitation**

**Instrument Assisted Soft Tissue Mobilization**

**Comparison of Instrument-assisted Soft Tissue Mobilization and Passive Stretching to Improve Glenohumeral Range of Motion and Function**

**Advanced Techniques in Physiotherapy & Occupational Therapy**

**Effects of Instrument-assisted Soft Tissue Mobilization on Isokinetic Knee Extensor Strength and Fatigue**

**The Efficacy of the Graston Technique Instrument Assisted Soft Tissue Mobilization in the Reduction of Scar Tissue in the Management of Chronic Ankle Instability Syndrome Following an Ankle Inversion Sprain**

**Therapeutic Exercise for Musculoskeletal Injuries**

**Development of a Mechatronics Instrument Assisted Soft Tissue Mobilization (IASTM) Device to Quantify Force and Orientation Angles**

**Athletic Training and Therapy**

**Physical Therapy Effectiveness**

**The Efficacy of the Graston Technique Instrument-assisted Soft Tissue Mobilisation (GISTM) in the Treatment of Plantar Fasciitis in Runners**

**Comparison of Various Outcomes Following Instrument-assisted Soft Tissue Mobilization Treatment**

**Myofascial Trigger Points**

**A Prospective Clinical Trial to Determine the Relative Effectiveness of Cross Friction Massage versus Graston Instrument Assisted Soft Tissue Mobilisation in Treating Patellar Tendinopathy**

**Fascial Dysfunction**

**Sports Performance Massage**

**The Short-term Effect of Graston Instrument-assisted Soft Tissue Mobilization (GISTM) on Supraspinatus Tendinosis and Its Concomitant Findings**

**Rehab to Throw Like a Pro**

**Orthopedic Massage E-Book**

**Comparison of Graston Technique Instrument-assisted Soft Tissue Mobilization and Stretching for the Management of Chronic Plantar Heel Pain**

**The Vital Shoulder Complex**

**Sacroiliac Joint Dysfunction and Piriformis Syndrome**

**Functional Atlas of the Human Fascial System**

**The Effect of Instrument Assisted Soft Tissue Mobilization on Iliotibial Band Extensibility and Hip Abduction Strength**

**IASTM**

**Comparison of Various Outcomes Following Instrument-assisted Soft Tissue Mobilization Treatment**

**Fascial Stretch Therapy**

Gua sha - E-Book

**Short-Term and Lasting Effects of Instrumented-Assisted Soft Tissue Mobilization Technique in Subjects with Restricted Ankle Dorsiflexion**

This text embraces the philosophy of 'active' conservative care and a multidisciplinary team approach to treatment. It addresses site specific sports injuries, as well as diagnostic imaging, strength and conditioning, nutrition and steroid use.

The Acute Effect of a Single Treatment of Graston Instrument-assisted Soft Tissue Mobilization and Stretching on Active Knee Extension 

Fascial Stretch Therapy shows how assessment, treatment and training are used in a variety of common circumstances encountered in manual therapy and athletic training. This book: describes and shows the therapist or trainer how to integrate FST in their current practice, business or workplace to enhance what they already do and provide. Section 1 redefines, clarifies and describes the many layers of therapeutic stretching showing where FST can be most useful summarizes relevant evidenced based studies and cites scientific support giving the professional confidence in using the techniques covers specific examples of how FST integrates with many other methods used in manual therapies, fitness and sport training, rehabilitation and corrective exercise, movement re-education and motor repatterning, provides specific indications and information on the most common diagnoses and conditions and how best to use FST Section 2 provides detailed description of the FST technique with many explanatory photographs Intended readership: For manual therapists, bodyworkers and massage therapists, movement instructors, physical and occupational therapists, physiotherapists, athletic and sports trainers, fitness instructors, osteopaths and hands-on practitioners from all disciplines.
Muscle Medicine Sports Performance Massage instructs the student and practising therapist to use a combination of experience and scientific evidence to inform their sports massage practice, particularly when working with athletic populations. Strength and conditioning coaches, managers and athletes frequently ask questions about the best use of sports massage in order to recover quicker from injury and fatigue and improve performance. Sports Performance Massage empowers the therapist and gives them greater confidence by improving their scientific understanding when working with injured or competitive athletes. The exciting new volume covers all the aspects required to make a highly skilled, confident and employable sports massage therapist. Working with high-level athletes requires an additional skill level compared to working with the general public. Furthermore, advanced massage skills taught in this book, such as soft tissue release and trigger point therapy, are essential when working on muscular adhesions and injured areas. Pregnant athletes, those with disabilities, contraindications and athletes with special requirements have also been considered. Sports Performance Massage is a learning and research aid for those studying vocational sports massage courses as well as those studying other courses where massage forms part of the undergraduate and postgraduate degree, such as sports therapy, sports rehabilitation, osteopathy and physiotherapy. Unlike other sports massage books, Sports performance Massage has a strong academic focus, allowing the graduate therapist to stay up to date with the latest research in their respective field.

Functional Soft Tissue Examination and Treatment by Manual Methods This book examines a special topic, JMMT. Emphasis is on the etiology of trigger points with a critical overview of current concepts. The contributing authors are the most respected myofascial pain research and practice experts. The authors address the etiology of trigger points, the epidemiology of myofascial pain, clinical management of patients, specific treatment issues, and the role of trigger points in various pain syndromes.

Indwelling Neural Implants

Conservative Management of Sports Injuries Instrument assisted soft tissue mobilization (IASTM) is a form of massage using rigid manufactured or cast devices. The delivered force, which is a critical parameter in massage during IASTM, has not been measured or standardized for most clinical practices. In addition to the force, the angle of treatment and frequency play an important role during IASTM. As a result, there is a strong need to characterize the delivered force to a patient, angle of treatment, and stroke frequency. This thesis proposes two novel mechatronic designs for a specific instrument from Graston Technique (M odel GT3), which is a frequently used tool to clinically deliver localize pressure to the soft tissue. The first design is based on compression load cells, where 4-load cells are used to measure the force components in three-dimensional space. The second design uses a 3D load cell, which can measure all three force components force simultaneously. Both designs are implemented with IMUduino microcontroller chips which can also measure tool orientation angles and provide computed stroke frequency. Both designs, which were created using Creo CAD platform, were also analyzed thorough strength and integrity using the finite element analysis package ANSYS. Once the static analysis was completed, a dynamic model was created for the first design to simulate IASTM practice using the GT-3 tool. The deformation and stress on skin were measured after applying force with the GT-3 tool. Additionally, the relationship between skin stress and the load cell measurements has been investigated. The second design of the mechatronic IASTM tool was validated for force measurements using an electronic plate scale that provided the baseline force values to compare with the applied force values measured by the tool. The load cell measurements and the scale readings were found to be in agreement within the expected degree of accuracy. The stroke frequency was computed using the force data and determining the peaks during force application. The orientation angles were obtained from the built-in sensors in the microchip.

Fascia: The Tensinal Network of the Human Body - E-Book

Trigger Point Dry Needling, An Evidence and Clinical-Based Approach, 1

Routledge Handbook of Sports Therapy, Injury Assessment and Rehabilitation Despite enormous advances made in the development of external effector
prosthetics over the last quarter century, significant questions remain, especially those concerning signal degradation that occurs with chronically implanted neuroelectrodes. Offering contributions from pioneering researchers in neuroprosthetics and tissue repair, *Indwelling Neural Implants: Strategies for Contending with the In Vivo Environment* examines many of these challenges, paying particular attention to how the healing of tissues surrounding an implant can impact the intended use of a device. The contributions are divided into four sections: Part one examines wound healing from the initial insertion trauma through the inflammatory and repair process, explaining how the action of healing varies throughout different areas of the body. Part two considers various performance issues specific to particular implant components, including those that arise from the chemical, mechanical, thermal, and electrical impact on surrounding tissues. It discusses challenges that result from chronic tissue stimulation and heat effects that occur with on-chip and telemetric processing. Part three presents both in vitro and in vivo approaches to assessing wound healing response to materials. It includes the contribution of the developer of a chronic hollow fiber membrane implant who explains how an in vivo model is used to assess molecular transport in brain tissue surrounding the implant. The final section evaluates molecular and materials strategies for intervening in CNS wound repair and enhancing the electrical communication between the electrode surface and the surrounding tissue. It also presents novel approaches to nerve regeneration and repair. This seminal work provides researchers with an up-to-date account of the progress in the field that they can build upon to bring us closer to realizing the full value of neural implants in combating otherwise intractable human health problems.

**Instrument Assisted Soft Tissue Mobilization** The 4th Edition of the field’s premier text on therapeutic modalities reflects evidence-based practice research and technologies that are impacting professional practice today. Step by step, you’ll build a solid foundation in the theory and science that underlie today’s best practices and then learn how to treat a wide range of orthopedic injuries.

**Soft Tissue Release** This second edition of this very successful book includes chapters written by experts in the methods of manual treatment and provides step-by-step instructions on how to examine your patient using a logical sequence of passive, contractile, and special tests, and how to relate findings to biomechanical problems and lesions. Included are hundreds of diagrams, photographs, illustrations, and summary charts. In this second edition, chapters from the first edition have been thoroughly revised and updated and new material has been added on Myofascial Release, Somatics, Post-Facilitation Stretch, Friction Massage, Hypo- and Hyperpronation of the Foot, Strain and Counter Strain, Gait, the Extremities, and the Spine.

**Comparison of Instrument-assisted Soft Tissue Mobilization and Passive Stretching to Improve Glenohumeral Range of Motion and Function** This exciting new publication is the first authoritative resource on the market with an exclusive focus on Trigger Point (TrP) dry needling. It provides a detailed and up-to-date scientific perspective against which TrP dry needling can be best understood. The first section of the book covers important topics such as the current understanding and neurophysiology of the TrP phenomena, safety and hygiene, the effect of needling on fascia and connective tissue, and an account on professional issues surrounding TrP dry needling. The second section includes a detailed and well-illustrated review of deep dry needling techniques of the most common muscles throughout the body. The third section of the book describes several other needling approaches, such as superficial dry needling, dry needling from a Western Acupuncture perspective, intramuscular stimulation, and Fu’s subcutaneous needling. Trigger Point Dry Needling brings together authors who are internationally recognized specialists in the field of myofascial pain and dry needling. First book of its kind to include different needling approaches (in the context of evidence) for the management of neuromuscular pain conditions. Highlights both current scientific evidence and clinicians’ expertise and experience multi-contributed by a team of top international experts. Over 200 illustrations supporting the detailed description of needling techniques.

**Advanced Techniques in Physiotherapy & Occupational Therapy** The purpose of this investigation was: 1) to determine if Graston Technique (GT) is effective in increasing hip adduction ROM and 2) to determine if GT is effective in increasing hip abduction strength. Prior to beginning the study all subjects were pseudo-randomly assigned by gender in either the Graston Technique (9 males and 13 females) or control group.
Effects of Instrument-assisted Soft Tissue Mobilization on Isokinetic Knee Extensor Strength and Fatigue This Second Edition presents introductory general information on all trigger points and also detailed descriptions of single muscle syndromes for the upper half of the body. It includes 107 new drawings, a number of trigger point release techniques in addition to spray and stretch, and a new chapter on intercostal muscles and diaphragm.

The Efficacy of the Graston Technique Instrument Assisted Soft Tissue Mobilization in the Reduction of Scar Tissue in the Management of Chronic Ankle Instability Syndrome Following an Ankle Inversion Sprain

Therapeutic Exercise for Musculoskeletal Injuries Soft Tissue Release is a clear, concise, and practical book that guides you in understanding and applying the three types of soft tissue release (STR): passive (clients do not help), active assisted (clients and therapists work together), and active (clients do it on their own). Rather than focus on the specific purposes of soft tissue release, this text provides basic information about the therapy and prepares readers to perform the techniques. The result is a text that professionals and students in massage therapy, physiotherapy, and osteopathy will find invaluable. Soft Tissue Release thoroughly explains the differences between the three types of STR by providing step-by-step descriptions on performing each type along with the key holds, moves, and stances for various muscles. The descriptions are accompanied by handy reference charts indicating the types of clients and situations in which each technique is particularly useful. Complete instructions explain how to apply STR to various parts of the body—the trunk, the lower limbs, and the upper limbs—and detail the advantages and disadvantages of each technique. Numerous full-color photos depict the locks and stretches. The book also explains how to use alternative options—such as massage tools and forearms, fists, and elbows—to protect the hands and thumbs from overuse. Tips sidebars provide short, practical comments on applying the techniques, while Client Talk boxes share the author's experiences and provide insight on situations that a therapist is likely to encounter. Each chapter ends with Quick Questions to test knowledge of the information, and answers are provided at the end of the book. A quick-reference photo index allows readers to look up techniques based on the client's position—prone, supine, sitting, or side lying—and find the page number for the complete instructions for that technique. Finally, Soft Tissue Release shows how to incorporate the proper techniques into a treatment program. The book guides readers through the consultation process and provides examples of initial questions to ask clients and various assessment forms that therapists can use in identifying clients' needs. Using case studies and comparisons, the book shows how the data gleaned from clients can guide the design of an effective treatment program. Soft Tissue Release will help the STR techniques come alive through its clear, detailed instruction and the numerous photos showing the techniques being applied by professionals. Whether you are a student or a professional, Soft Tissue Release will help you gain proficiency and confidence in these techniques.

Development of a Mechatronics Instrument Assisted Soft Tissue Mobilization (IASTM) Device to Quantify Force and Orientation Angles A leading orthopedic surgeon and a top sports chiropractor team up to offer a groundbreaking new approach to remaining injury-free and recovering from injury faster. Muscle injuries are not just for sports superstars anymore. Back, shoulder, hip, and knee problems bedevil more and more people than ever before. Muscle Medicine provides a way to prevent such injuries from happening and to treat them when they do without drugs or surgery. The product of a collaborative effort between two widely recognized authorities on sports injuries, Muscle Medicine relies on cutting-edge medical and therapeutic expertise to deliver what many doctors cannot: explanations of how to maintain good muscle health, how to treat common muscle injuries, such as “Tennis Elbow” and “Cell Phone Neck,” and how to determine when joint surgery is and is not necessary for some common orthopedic problems. By focusing on the health of our muscles, we can prevent many sports injuries from occurring and recover faster from the ones that do, say the coauthors, whose A-list clients have included John McEnroe and Elisabeth Hasselbeck. Featuring more than 100 illustrations that show the basics of muscle mechanics, along with various stretching, strengthening, and self-treatment exercises, Muscle Medicine will help readers enjoy pain-free, active lives no matter what their age or activity level.

Athletic Training and Therapy

Physical Therapy Effectiveness Therapeutic Exercise for Musculoskeletal Injuries, Fourth Edition With Online Video, presents foundational information that
instills a thorough understanding of rehabilitative techniques. Updated with the latest in contemporary science and peer-reviewed data, this edition prepares upper-undergraduate and graduate students for everyday practice while serving as a referential cornerstone for experienced rehabilitation clinicians. The text details what is happening in the body, why certain techniques are advantageous, and when certain treatments should be used across rehabilitative time lines. A accompanying online video demonstrates some of the more difficult or unique techniques and can be used in the classroom or in everyday practice. The content featured in Therapeutic Exercise for Musculoskeletal Injuries aligns with the Board of Certification's (BOC) accreditation standards and prepares students for the BOC Athletic Trainers' exam. Author and respected clinician Peggy A. Houglum incorporates more than 40 years of experience in the field to offer evidence-based perspectives, updated theories, and real-world applications. The fourth edition of Therapeutic Exercise for Musculoskeletal Injuries has been streamlined and restructured for a cleaner presentation of content and easier navigation. A dditional updates to this edition include the following: • A n emphasis on evidence-based practice encourages the use of current scientific research in treating specific injuries. • Full-color content with updated art provides students with a clearer understanding of complex anatomical and physiological concepts. • 40 video clips highlight therapeutic techniques to enhance comprehension of difficult or unique concepts. • Clinical tips illustrate key points in each chapter to reinforce knowledge retention and allow for quick reference. The unparalleled information throughout Therapeutic Exercise for Musculoskeletal Injuries, Fourth Edition, has been thoroughly updated to reflect contemporary science and the latest research. Part I includes basic concepts to help readers identify and understand common health questions in examination, assessment, mechanics, rehabilitation, and healing. Part II explores exercise parameters and techniques, including range of motion and flexibility, proprioception, muscle strength and endurance, plyometrics, and development. Part III outlines general therapeutic exercise applications such as posture, ambulation, manual therapy, therapeutic exercise equipment, and body considerations. Part IV synthesizes the information from the previous segments and describes how to create a rehabilitation program, highlighting special considerations and applications for specific body regions. Featuring more than 830 color photos and more than 330 illustrations, the text clarifies complicated concepts for future and practicing rehabilitation clinicians. Case studies throughout part IV emphasize practical applications and scenarios to give context to challenging concepts. Most chapters also contain Evidence in Rehabilitation sidebars that focus on current peer-reviewed research in the field and include applied uses for evidence-based practice. A dditional learning aids have been updated to help readers absorb and apply new content; these include chapter objectives, lab activities, key points, key terms, critical thinking questions, and references. Instructor ancillaries, including a presentation package plus image bank, instructor guide, and test package, will be accessible online. Therapeutic Exercise for Musculoskeletal Injuries, Fourth Edition, equips readers with comprehensive material to prepare for and support real-world applications and clinical practice. Readers will know what to expect when treating clients, how to apply evidence-based knowledge, and how to develop custom individual programs.

The Efficacy of the Graston Technique Instrument-assisted Soft Tissue Mobilisation (GISTM) in the Treatment of Plantar Fasciitis in Runners This graduate-level textbook instills evidence-based knowledge of contemporary practices in athletic training and health care. Integrating essential competencies outlined by the NATA, BOC, and CAATE, future athletic trainers will build a foundation for clinical expertise to improve patient outcomes.

Therapeutic Modalities Fascial dysfunction is now recognized as one of the main underlying causes of musculoskeletal pain leading to impaired and reduced mobility. These are the symptoms which confront all practitioners of manual therapy in their everyday practice. Fascial Dysfunction - Manual Therapy Approaches aims to assess more precisely the dysfunction of their clients and its cause and to increase practitioner awareness of the various techniques which may help them in their attempts to alleviate their clients' problems. --

Textbook of Orthopaedic Medicine Principally based on dissections of hundreds of un-embalmed human cadavers over the past decade, Functional Atlas of the Human Fascial System presents a new vision of the human fascial system using anatomical and histological photographs along with microscopic analysis and biomechanical evaluation. Prof. Carla Stecco - orthopaedic surgeon and professor of anatomy and sport activities - brings together the research of a multi-specialist team of researchers and clinicians consisting of anatomists, biomechanical engineers, physiotherapists, osteopaths and plastic surgeons. In this Atlas Prof. Stecco presents for the first time a global view of fasciae and the actual connections that describe the myofascial kinetic chains.
These descriptions help to explain how fascia plays a part in myofascial dysfunction and disease as well as how it may alter muscle function and disturb proprioceptive input. Prof. Stecco also highlights the continuity of the fascial planes, explaining the function of the fasciae and their connection between muscles, nerves and blood vessels. This understanding will help guide the practitioner in selecting the proper technique for a specific fascial problem with a view to enhancing manual therapy methods. Functional Atlas of the Human Fascial System opens with the first chapter classifying connective tissue and explaining its composition in terms of percentages of fibres, cells and extracellular matrix. The second chapter goes on to describe the general characteristics of the superficial fascia from a macroscopic and microscopic point of view; while the third analyzes the deep fascia in the same manner. The subsequent five chapters describe the fasciae from a topographical perspective. In this part of the Atlas, common anatomical terminology is used throughout to refer to the various fasciae but it also stresses the continuity of fasciae between the different bodily regions. Over 300 unique photographs which show fascia on fresh (not embalmed) cadavers Demonstrates the composition, form and function of the fascial system Highlights the role of the deep fascia for proprioception and peripheral motor coordination Companion website – www.atlasfascial.com – with videos showing how fascia connects with ligaments

Fascial Dysfunction Physical therapy involves non-pharmacological interventions in the management of various clinical conditions. It is important to highlight the physical therapy procedures that are suitable, effective and, in general, do not have side effects or complications when properly performed. Physical therapy can be valuable in different situations along of the various steps of human development and in various clinical disorders. Indeed, topics on different approaches have been included in this book, which makes this book useful for readers to improve their professional performance.

Travell & Simons' Myofascial Pain and Dysfunction: Upper half of body Fully updated and revised Orthopedic Massage has been written for those interested in understanding and applying massage as an intervention for soft-tissue disorders. Recent research into the physiological effects of massage has strengthened the justification for its use in the treatment of soft-tissue pain and injury conditions. Orthopedic soft-tissue problems are common among the general population, whether from sports, occupational activities, or chronic pain. This text presents a comprehensive and in-depth look at the physiological nature of these conditions and the massage treatments most effective for their relief. A particular contribution this text makes is its validation of the role of massage in treating orthopedic conditions. In addition, it aims to help the clinician understand the relationship between the soft tissues to which they apply their techniques and the overall orthopedic disorder affecting their clients. Although written chiefly for massage practitioners, the lessons it teaches are relevant to any practitioner who is concerned with the treatment of soft-tissue injuries. Includes detailed technical information, extensive illustrations, and reliable reference material essential to everyday practice. Provides a comprehensive approach to treatment of common soft tissue pain and injury. Explains common orthopedic problems in detail, addressing biomechanics, kinesiology, and anatomy. Provides an in-depth discussion of the physiologic rationale for soft tissue treatments and explains those most effective for each condition. Integrates treatment approaches from across the field and gives detailed, easy-to-follow steps for their application. Compares traditional treatments with soft tissue manipulation for each problem discussed. Clearly links anatomy, physiology, and biomechanics with clinical practice. Designed for quick and easy reference with more than 200 high-quality full colour illustrations and numerous photos of treatment techniques. New clinical case studies and tips illustrate the techniques discussed. Now presented in full colour. New step-by-step photographs depict the techniques described in full detail. Increased artwork and photographs make learning more visual. Case studies demonstrate techniques and management in clinical practice Clinical hints and tips throughout. Greater guidance in treatment strategies to include 'Treatment Approaches' and 'Rehabilitation Protocol Considerations'.

Sports Performance Massage This complete guide to treating patients with sacroiliac joint dysfunction, or piriformis syndrome, combines multiple techniques—rather than the usual single approach—to get quicker and more resilient results. Focusing on the practical application of skills acquired in twenty years of treating elite athletes, Paula Clayton provides a comprehensive guide to the latest discussions of the therapeutic handling of fascial tissue, dry needling, instrument-assisted soft-tissue manipulation, and dynamic taping. Presenting material formerly unavailable in one volume, this book provides evidence-based information on fundamental principles that enable practitioners to map approaches to dysfunction and injury before attempting hands-on treatments. Superbly designed for ease of use and supported with full-color illustrations that clarify and complement the text, this book puts decades of
experience and research at readers' fingertips, expanding their ability to both improve their practice and educate their patients.

The Short-term Effect of Graston Instrument-assisted Soft Tissue Mobilization (GISTM) on Supraspinatus Tendinosis and It's Concomitant Findings

'Sometimes called coining, spooning or scraping, Gua sha is defined as instrument-assisted unidirectional press-stroking of a lubricated area of the body surface that intentionally creates 'transitory therapeutic petechiae' representing extravasation of blood in the subcutis.' Gua sha has been used for centuries in Asia, in Asian immigrant communities and by acupuncturists and practitioners of traditional East Asian medicine worldwide. With the expansion of traditional East Asian medicine, Gua sha has been used over broad geographic areas and by millions of people. It is valuable in the treatment of pain and for functional problems with impaired movement, the prevention and treatment of acute infectious illness, upper respiratory and digestive problems, and many acute or chronic disorders. Research has demonstrated Gua sha radically increases surface microperfusion that stimulates immune and anti-inflammatory responses that persist for days after treatment. The second edition expands on the history of Gua sha and similar techniques used in early Western medicine, detailing traditional theory, purpose and application and illuminated by science that focuses its relevance to modern clinical practice as well as scholarly inquiry. This book brings the technique alive for practitioners, with clear discussion of how to do it – including correct technique, appropriate application, individualization of treatment – and when to use it, with over 50 case examples, and superb color photographs and line drawings that demonstrate the technique. NEW TO THIS EDITION: • New chapter on immediate and significant Tongue changes as a direct result of Gua sha • Research and biomechanisms • Literature review from Chinese language as well as English language medical journal database • New case studies • Over 30 color photographs

Rehab to Throw Like a Pro Context: The loss of shoulder internal rotation range of motion is common maladaptation that predisposes overhead sport athletes to injury. Instrument-assisted soft tissue mobilization (IASTM) has recently been suggested as an alternative to stretching exercises to reestablish normal range of motion. Objective: To determine the extent to which a 4-week program of traditional stretching plus IASTM improves glenohumeral range of motion compared to stretching alone. Our secondary purpose was to measure the effects of these interventions using two patient-rated outcome measures of shoulder function. Design: Prospective cohort study. Setting: Combined laboratory and field study. Participants: 20 intercollegiate baseball players; 10 in the Stretching + IASTM Group (age, 20.9 ± 0.9 yrs; height, 180.8 ± 8.1 cm; mass 85.7 ± 7.2 kg), and 10 in the Stretching group (age, 19.9 ± 1.4 yrs; height, 183.4 ± 7.4 cm; mass, 87.1 ± 8.5 kg). Interventions: Participants in the Stretching group received a clinician-administered shoulder stretching program 5 days/week for 4 weeks. Participants assigned to the Stretching + IASTM group received the same stretching program, plus IASTM treatments twice per week for 4 weeks. All participants completed the Kerlan-Jobe Orthopaedic Clinic Shoulder and Elbow (KJOC) score and the Functional Arm Scale for Throwers (FAST) at the beginning and end of the study. Main Outcome Measures: Shoulder internal rotation, external rotation, and horizontal adduction passive range of motion (PROM); glenohumeral total range of motion (TROM); and the KJOC and the FAST. Statistical Analyses: Five Group (2) x Time (2) between-within ANOVAs were performed (a = 0.05). We also calculated Pearson correlations between the KJOC and FAST questionnaire scores. Results: Internal rotation PROM significantly improved from Week 0 to Week 4 in both treatment groups (p = 0.005). Stretching group mean internal rotation PROM increased 6.3%, from 52.8° + 8.7o to 56.1° + 8.4o, while Stretching + IASTM group average internal rotation PROM improved 7.8%, from 52.6° + 7.2o to 56.7° + 4.5o over the course of this study. Total range of motion (TROM) improved 3.1% in the Stretching group, from 145.2° + 17.0o to 149.7° + 18.4o, and 4.2% in the Stretching + IASTM group, from 143.0° + 8.4o to 149.0° + 10.6o between Week 0 and Week 4, respectively (p = 0.005). The KJOC and the FAST scores were inversely related at both the outset (r = -0.874, p = 0.001) and conclusion of our 4-week intervention (r = -0.765, p = 0.001). Conclusions: While both treatment protocols were effective in increasing glenohumeral internal rotation PROM and TROM, the IASTM protocol we employed did not have a significant effect on any of our disease-oriented outcome measures after 4 weeks. Future research studies should compare the effects of multiple IASTM treatment frequencies and durations to more thoroughly evaluate the capacity of IASTM to create long-term improvements in glenohumeral joint range of motion and function.

Orthopedic Massage E-Book Salient Features, Encompasses more than 30 advance orthopedic/manual therapy, neurological, vestibular and cardiopulmonary physiotherapy (PT) and occupational therapy (OT) techniques, In-depth but precise and concise content written in simple language that makes almost all the
Comparison of Graston Technique Instrument-assisted Soft Tissue Mobilization and Stretching for the Management of Chronic Plantar Heel Pain

This book is the product of an important collaboration between clinicians of the manual therapies and scientists in several disciplines that grew out of the three recent International Fascia Research Congresses (Boston, Amsterdam, and Vancouver). The book editors, Thomas Findley MD PhD, Robert Schleip PhD, Peter Huijing PhD and Leon Chaitow DO, were major organizers of these congresses and used their extensive experience to select chapters and contributors for this book. This volume therefore brings together contributors from diverse backgrounds who share the desire to bridge the gap between theory and practice in our current knowledge of the fascia and goes beyond the 2007, 2009 and 2012 congresses to define the state-of-the-art, from both the clinical and scientific perspective. Prepared by over 100 specialists and researchers from throughout the world, Fascia: The Tensional Network of the Human Body will be ideal for all professionals who have an interest in fascia and human movement - physiotherapists, osteopathic physicians, osteopaths, chiropractors, structural integration practitioners, manual therapists, massage therapists, acupuncturists, yoga or Pilates instructors, exercise scientists and personal trainers - as well as physicians involved with musculoskeletal medicine, pain management and rehabilitation, and basic scientists working in the field. Reflects the efforts of almost 100 scientists and clinicians from throughout the world Offers comprehensive coverage ranging from anatomy and physiology, clinical conditions and associated therapies, to recently developed research techniques Explores the role of fascia as a bodywide communication system Presents the latest information available on myofascial force transmission which helps establish a scientific basis for given clinical experiences Explores the importance of fascia as a sensory organ - for example, its important proprioceptive and nociceptive functions which have implications for the generation of low back pain Describes new imaging methods which confirm the connectivity of organs and tissues Designed to organize relevant information for professionals involved in the therapeutic manipulation of the body’s connective tissue matrix (fascia) as well as for scientists involved in basic science research Reflects the increasing need for information about the properties of fascia, particularly for osteopaths, massage therapists, physiotherapists and other complementary health care professionals Offers new insights on the fascial related foundations of Traditional Chinese Medicine Meridians and the fascial effects of acupuncture

Muscle Manual

The Vital Shoulder Complex

Sacroiliac Joint Dysfunction and Piriformis Syndrome

Functional Atlas of the Human Fascial System A comprehensive guide to understanding the complexities of the shoulder and treating shoulder injury and pain. The area of the body we commonly refer to as “the shoulder” is in fact a complex of interconnected systems - bones, tendons, muscle, and joints that together work to move our arms, hands, and fingers. Because the shoulder must trade stability for mobility, it is also one of the weakest joints of the body, which explains why it is one of the most common areas of physical pain; injury located in the shoulder can affect areas throughout the entire body. The Vital Shoulder Complex is designed for anyone interested in understanding, treating, and healing shoulder-related pain. Author and renowned bodyworker John Gibbons explains and illustrates the dynamics of the shoulder complex in ways that are accessible and enlightening. The theory and principles described in this book can assist physical therapists in formulating effective treatment protocols towards quick rehabilitation for their patients. These include: * Differential diagnosis of shoulder pathology * The relationship of the pelvis, the SI joint, and the gluteals to the shoulder complex * Pathologies of the shoulder and cervical spine * Special tests associated with the shoulder complex * Rehabilitation and exercise protocols for the shoulder complex

The Effect of Instrument Assisted Soft Tissue Mobilization on Iliotibial Band Extensibility and Hip Abduction Strength SHORT-TERM AND...
LASTING EFFECTS OF INSTRUMENT ASSISTED SOFT TISSUE MOBILIZATION TECHNIQUE IN SUBJECTS WITH RESTRICTED ANKLE DORSIFLEXION

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Objective: To determine the short-term and long-term effects on performance outcomes of an Instrument Assisted Soft Tissue Mobilization (IASTM) technique on participants who have squat limitations. We hypothesized that compared to a control group, the treatment would improve the performance outcomes both immediately and 1-week after treatment.

Design and Settings: A pre-test-post-test repeated measures true experimental design was conducted in a laboratory. There were two groups, a treatment group (TG) that received a single session of eight minutes of IASTM on each calf, and a sham treatment group (SG) that served as the experimental control and received a single session of eight minutes of a sham IASTM treatment on each calf. Baseline data was collected before treatment and post measurements were taken immediately after treatment, and 1-week after treatment for both TG and SG.

Subjects: Twenty (5 men, 15 women) participants were enrolled in this study and were randomly assigned to one of two groups; TG (21.4 0.55 years, 170.1 10.1 cm, 66.4 9.7 kg), SG (21.8 0.20 years, 167.2 5.83 cm, 66.1 10.6 kg). Measurements: Ankle dorsiflexion (DF) range of motion (ROM) was measured using the Weight Bearing Lunge Test (WBLT). Mobility and dynamic stability of the trunk and lower extremities were assessed via the anterior reach portion of the Star Excursion Balance Test (SEBT) and the overhead deep squat test from the Functional Movement Screen (FMS). Order of testing was randomized to prevent order effects.

Results: There were no significant differences found between or within group differences for any comparisons of the dependent variables in this study. No significant three-way interactions were found between foot, measurement period, and treatment for WBLT (p = 0.910) or SEBT (p = 0.872). For the dominant foot data, there were no significant two-way interactions regarding measurement period or treatment for both WBLT (p = 0.752) and SEBT (p = 0.564). Likewise, there were no significant main effects of the treatment on the WBLT (p = 0.335) or SEBT (p = 0.144) dependent variables for the dominant foot. For the FMS data, there were no significant immediate or 1-week changes in scores between or within the treatment groups (Immediate p = 0.44; 1-week p = 0.18).

Conclusions: There were no short-term or long-term effects of a single session of IASTM on weight-bearing ankle dorsiflexion range of motion or performance outcomes in individuals with squat limitations.

IASTM The work of a sports therapist is highly technical and requires a confident, responsible and professional approach. The Routledge Handbook of Sports Therapy, Injury Assessment and Rehabilitation is a comprehensive and authoritative reference for those studying or working in this field and is the first book to comprehensively cover all of the following areas: Sports Injury Aetiology Soft Tissue Injury Healing Clinical Assessment in Sports Therapy Clinical Interventions in Sports Therapy Spinal and Peripheral Anatomy, Injury Assessment and Management Pitch-side Trauma Care Professionalism and Ethics in Sports Therapy. The Handbook presents principles which form the foundation of the profession and incorporates a set of spinal and peripheral regional chapters which detail functional anatomy, the injuries common to those regions, and evidence-based assessment and management approaches. Its design incorporates numerous photographs, figures, tables, practitioner tips and detailed sample Patient Record Forms. This book is comprehensively referenced and multi-authored, and is essential to anyone involved in sports therapy, from their first year as an undergraduate, to those currently in professional practice.

Comparison of Various Outcomes Following Instrument-assisted Soft Tissue Mobilization Treatment Strength is one characteristic that most athletes focus on improving as it is a critical element for success. It is believed that some micro-tearing of the muscle tissue occurs daily in routine activities and during regular exercise. Any restriction or imbalance within the musculoskeletal structure can affect optimal range of motion which then can affect the quality of force production, force application, and movement efficacy. Nontraditional treatments are beginning to be investigated to examine their effects on strength and a few techniques are slowly gaining popularity are the Graston Technique (GT) and Whole Body Vibration (WBV). Clinicians might apply the GT before practice or competition to break down adhesions to allow the muscle to function freely or use WBV to stimulate the neuromuscular system. However, the use of the GT or WBV may possibly leave the athlete susceptible to injury if strength is diminished in the process.

PURPOSE: The purpose of this study is to address the potential acute effects of the GT and WBV on peak isokinetic torque and fatigue of the quadriceps during maximal voluntary contraction. The secondary purpose is to compare the individual effects between the GT and WBV on strength and fatigue following an acute exercise protocol.

METHODS: Subjects were randomly selected into three groups: the GT, WBV and control. Each subject completed their group protocol a week after the pre-test. Peak
isokinetic torque, total work and work fatigue values were collected pre-test and post-test using the Thorstensson protocol on the Biodex dynamometer 4.0. Following data collection, independent sample t-tests and a one-way ANOVA were performed on SPSS Statistics to analyze the data. RESULTS: Peak isokinetic torque and work fatigue decreased following each intervention. There was no significant difference between pre-test and post-test or between groups. Total work only increased in the GT but not significantly when compared to the WBV and control group. CONCLUSION: Based on the results, it is safe to assume that the GT and WBV is not better or worse than resting for 5 minutes before practice or competition when it comes to strength and fatigue.

Myofascial Trigger Points

A Prospective Clinical Trial to Determine the Relative Effectiveness of Cross Friction Massage Versus Graston Instrument Assisted Soft Tissue Mobilisation in Treating Patellar Tendinopathy This book serves as a practical guide to maximizing clinicians’ effectiveness in rehabilitating overhead throwing athletes. Topics covered will include throwing mechanics, assessment of throwing athletes, and manual therapy with the primary focus of this guide being exercise interventions. Assessment strategies and exercise interventions will be laid out in a progression that can be easily followed and implemented in the clinic today. The inspiration for this book comes from my professional baseball career ending prematurely due to injury. Shortly after I made the 40-man roster for the New York Yankees, I sustained a shoulder injury that altered my career and life. I nearly made it back up to the MLB before sustaining another serious throwing injury. After multiple injuries and surgeries, I dedicated my life and future career, physical therapy, to discovering why throwing injuries occur and how to prevent them. The goal of this book is to give clinicians practical tools and interventions that they can add to their toolbox, without bogging them down with extraneous material and information. My goal for you is that you can make a difference in throwing athletes’ careers so they don’t have to experience the same career ending injuries that I endured.

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