

ac joint separation physical therapy

AC Joint Separation Physical Therapy: A Comprehensive Guide

Author: Dr. Emily Carter, PT, DPT, OCS, FAAOMPT

Dr. Emily Carter is a Doctor of Physical Therapy with board certification in Orthopedic Clinical Specialist (OCS) and a Fellow of the American Academy of Orthopaedic Manual Physical Therapists (FAAOMPT). Her expertise lies in the diagnosis and non-surgical management of musculoskeletal injuries, with a specific focus on shoulder pathologies, including AC joint separations.

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Dr. Michael Jones holds a PhD in Biomechanics and is a seasoned editor for numerous peer-reviewed journals focusing on musculoskeletal rehabilitation. His editorial oversight ensures the accuracy and clarity of this article.

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Understanding AC Joint Separation and the Role of Physical Therapy

An acromioclavicular (AC) joint separation, also known as an AC joint injury, is a common shoulder injury resulting from a direct blow or fall onto the shoulder. The severity ranges from mild sprains to complete separations, requiring varying levels of AC joint separation physical therapy. The AC joint connects the clavicle (collarbone) to the acromion (part of the shoulder blade). Damage to the ligaments stabilizing this joint causes pain,

instability, and often a visible deformity.

The Importance of Early Intervention in AC Joint Separation Physical Therapy

Early intervention is crucial in the successful management of AC joint separation. Delayed treatment can lead to chronic pain, stiffness, and functional limitations. AC joint separation physical therapy begins with a thorough assessment by a qualified physical therapist. This assessment includes a detailed history of the injury, a physical examination to evaluate range of motion, strength, and pain, and possibly imaging review (X-rays).

Phases of AC Joint Separation Physical Therapy

AC joint separation physical therapy typically progresses through several phases:

Phase 1: Pain and Inflammation Management (Weeks 1-3): The initial focus is on controlling pain and inflammation. This involves:

Rest and Ice: Protecting the joint from further injury is paramount.

Pain Management: Modalities like ultrasound, electrical stimulation, and ice/heat application may be used to reduce pain.

Gentle Range of Motion Exercises: Maintaining mobility within pain tolerance is key to preventing stiffness. Early mobilization is crucial to avoid frozen shoulder.

Postural Education: Correct posture can help alleviate stress on the joint.

Phase 2: Improving Range of Motion and Strength (Weeks 4-8): As pain subsides, the focus shifts to improving shoulder range of motion and regaining strength. This phase of AC joint separation physical therapy may include:

Progressive Range of Motion Exercises: Gradually increasing the intensity and range of motion exercises.

Strengthening Exercises: Focusing on the rotator cuff muscles, scapular stabilizers, and deltoids.

Proprioceptive Training: Exercises to improve balance and coordination.

Manual Therapy: Techniques like joint mobilization may be used to improve joint mechanics.

Phase 3: Return to Function (Weeks 9-12+): The final phase focuses on returning to normal activities and preventing re-injury. This includes:

Functional Exercises: Activities that mimic daily tasks and sports-specific movements.

Sport-Specific Training: Gradual progression back to previous activity levels.

Endurance Training: Improving cardiovascular fitness and overall endurance.
Prevention Strategies: Educating the patient on techniques to prevent future injuries.

Types of Exercises Used in AC Joint Separation Physical Therapy

Many exercises are incorporated in AC joint separation physical therapy. These are tailored to the individual's specific needs and the severity of their injury. Examples include:

Pendulum exercises: Gentle swinging movements to improve range of motion.

Scapular retraction and protraction: Strengthening exercises for the muscles that stabilize the scapula.

Rotator cuff strengthening: Exercises to strengthen the muscles that rotate the shoulder.

Isometric exercises: Exercises that involve muscle contraction without movement.

Isotonic exercises: Exercises that involve muscle contraction with movement.

When to Seek Professional Help for AC Joint Separation Physical Therapy

It's important to consult a physical therapist if you suspect an AC joint separation. A physical therapist can provide a proper diagnosis, develop a tailored AC joint separation physical therapy plan, and guide you through the rehabilitation process. Delayed or inadequate treatment can lead to long-term problems, including chronic pain, limited mobility, and decreased shoulder function.

Conclusion

AC joint separation physical therapy plays a critical role in the successful management and recovery from this common shoulder injury. Early intervention, a comprehensive rehabilitation program, and adherence to the therapist's recommendations are essential for optimal outcomes. By following a structured approach tailored to individual needs, patients can regain full shoulder function, return to their desired activities, and prevent future injuries.

FAQs

1. How long does AC joint separation physical therapy take? The duration varies depending on the severity of the injury and individual response to treatment, ranging from several weeks to several months.

1. Will I need surgery for an AC joint separation? Surgery is usually only necessary for severe separations (Type IV-VI). Most cases can be effectively managed with conservative treatment, including AC joint separation physical therapy.
1. What are the signs and symptoms of an AC joint separation? Symptoms include pain, swelling, bruising, tenderness to the touch over the AC joint, limited range of motion, and a visible deformity in severe cases.
1. Can I exercise with an AC joint separation? Yes, but only under the guidance of a physical therapist. Inappropriate exercise can worsen the injury.
1. What type of physical therapist should I see? An orthopedic clinical specialist (OCS) or a physical therapist with experience in shoulder injuries is ideal.
1. How can I prevent AC joint separations? Strengthening the shoulder muscles, proper warm-up before activity, and wearing protective gear during contact sports can help prevent injuries.
1. What are the long-term effects of an untreated AC joint separation? Untreated separations can lead to chronic pain, stiffness, decreased function, and potential development of osteoarthritis.
1. Can I return to sports after an AC joint separation? Yes, but gradually and only after completing a full rehabilitation program under the guidance of a physical therapist.
1. What are the costs associated with AC joint separation physical therapy? Costs vary depending on location, insurance coverage, and the number of sessions required.

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ac joint separation physical therapy: Normal and Pathological Anatomy of the Shoulder Gregory I. Bain, Eiji Itoi, Giovanni Di Giacomo, Hiroyuki Sugaya, 2015-05-05 This cutting-edge monograph on advanced clinical anatomy and pathoanatomy of the shoulder, written by the world's leading authors, reflects recent significant advances in understanding of anatomy and pathology. It is beautifully illustrated with exquisite photographs of anatomical specimens, and images from arthroscopy, histology, and radiology complete the picture. The accompanying text brings out the clinical, biomechanical, and functional relevance and focuses on aspects important to the high-performance athlete. In addition, the book closely assesses how each component of the normal anatomy responds to trauma, disease, and degeneration. The finer points of the pathoanatomy are demonstrated with clinical cases, histology, radiology, arthroscopy, and open surgery. The text details how the pathoanatomy affects the patient presentation, clinical examination, and imaging. It is also explained how the pathology affects the natural history and the outcome of physical therapy and influences recommendations for surgical treatments. This book will be of immense value both to trainees and to specialists who manage disorders of the shoulder, including orthopedic surgeons, sports physicians, and physiotherapists. It will also be of great interest to anatomists and pathologists.

ac joint separation physical therapy: *Disorders of the Scapula and Their Role in Shoulder Injury* W. Ben Kibler, Aaron D. Sciascia, 2017-05-27 This unique book - the first of its kind exclusive on disorders of the scapula - is a concise but comprehensive summary of the evidence that will enable clinicians to understand the scapula from its functions to its dysfunctions and includes clinical guidelines and pearls to improve the clinician's competencies for the treatment of shoulder disorders. Organized logically, the book opens with a review of the baseline mechanics and pathomechanics of the scapula, proceeds to evaluation, then describes in detail the association of the scapula with specific shoulder problems, including rotator cuff disease, labral injuries, glenohumeral and multidirectional instability, clavicle fractures, acromioclavicular joint separation, and shoulder arthrosis. Subsequent chapters cover scapular muscle detachment, neurological

injuries and winging, scapular fractures and snapping scapula, in addition to basic and complex rehabilitation strategies. Each chapter includes a summary section with clinical pearls. In the past, in-depth research and expertise regarding the scapula was minimal, but a widening interest has resulted in a volume of literature that makes it possible and imperative that it be collected in a single volume. *Disorders of the Scapula and Their Role in Shoulder Injury* will be an excellent resource for orthopedic and trauma surgeons, residents and fellows.

ac joint separation physical therapy: The Athlete's Shoulder James R. Andrews, Kevin E. Wilk, Michael M. Reinold, 2008-10-30 The latest edition of this in-depth look at athletic injuries of the shoulder has been updated to feature 16 new chapters, additional illustrations and algorithms, an added focus on arthroscopic treatments, and pearls that highlight key information. Additional contributing authors give you a fresh spin on new and old topics from rehabilitation exercises to special coverage of female athletes, pediatrics, and golfers. This book offers coverage of arthroscopy, total joint replacement, instability, football, tennis, swimming, and gymnastic injuries, rotator cuff injuries, and much, much more! The large range of topics covered in this text ensures that it's a great resource for orthopaedists, physical therapists, athletic trainers, and primary care physicians. - Presents a multidisciplinary approach to the care of the shoulder, combining contributions from the leaders in the field of orthopedic surgery, physical therapy, and athletic training. - Demonstrates which exercises your patients should perform in order to decrease their chance of injury or increase strength following an injury through illustrated exercises for rehabilitation and injury prevention. - Illustrates how the shoulder is affected during activity of certain sports with a variety of tables and graphs. - Covers a large range of topics including all shoulder injuries to be sufficiently comprehensive for both orthopaedists and physical therapists/athletic trainers. Features 16 new chapters, including Internal Impingement, Bankarts: Open vs. Arthroscopy, Adhesive Capsulitis of the Shoulder, Cervicogenic Shoulder Pain, Proprioception: Testing and Treatment, and more. - Details current surgical and rehabilitation information for all aspects of shoulder pathology to keep you up-to-date. - Organizes topics into different sections on anatomy, biomechanics, surgery, and rehabilitation for ease of reference.

ac joint separation physical therapy: Physical Examination of the Shoulder Ryan J. Warth, Peter J. Millett, 2015-06-24 This text presents a comprehensive and concise evidence-based and differential-based approach to physical examination of the shoulder in a manner that promotes its successful application in clinical practice. Additionally, this book provides an integrated approach to the diagnosis of numerous shoulder pathologies by combining discussions of pathoanatomy and the interpretation of physical examination techniques and was written for any health care professional or student who may be required to evaluate patients who present with shoulder pain. This information will allow the clinician to make informed decisions regarding further testing procedures, imaging and potential therapeutic options. *Physical Examination of the Shoulder* will serve as an invaluable resource for practicing orthopedic surgeons, sports medicine specialists, physical therapists, residents in training and medical students interested in the field of clinical orthopedics.

ac joint separation physical therapy: Ultrasound of the Shoulder Carlos Frederico Arend, 2013-09-02 The objective of this book is to provide authoritative, critically reviewed, and up-to-date information on diagnostic shoulder ultrasound. The volume contains more than 500 high-quality images to elucidate key concepts, provides extensive MRI correlation, includes a comprehensive list of references, and offers online access to illustrative videos on dynamic findings. It also integrates basic and clinical science, and is full of personal perspectives on established and controversial topics, which are essential in a field of medicine so dependent upon the intelligent integration of subjective data. Hope you enjoy. Have a nice reading.

ac joint separation physical therapy: Shoulder Arthroplasty Gazi Huri, Filippo Familiari, Young Lae Moon, Mahmut Nedim Doral, Giulio Maria Marcheggiani Muccioli, 2019-10-10 This book describes and evaluates techniques and devices used in shoulder arthroplasty with a view to enabling readers to improve their surgical practice. After an opening section on basic knowledge, including surgical anatomy, key issues in total shoulder arthroplasty and reverse total shoulder

arthroplasty (RTSA) are considered in detail. Among the topics covered are biomechanics, cemented versus cementless humeral fixation, the comparative merits of humeral components featuring short stem and stemless designs and of pegged and keeled glenoid components, the influence of humeral inclination in RTSA, and the avoidance and management of unstable RTSA. An entire section is then devoted to the description and illustration of valuable surgical tips and tricks. Arthroplasty for acute proximal humerus fractures is considered separately, again addressing important aspects of technique and current controversies. The book is an outcome of a workshop held by the international Shoulder Club, formed at Hacettepe University in Ankara in 2015 with the aim of bringing together leading authorities in the field and young orthopedic surgeons and students from across the world in order to disseminate expertise and exchange ideas.

ac joint separation physical therapy: Magnetic Resonance Imaging in Orthopedic Sports Medicine Robert Pedowitz, Christine B. Chung, Donald Resnick, 2008-12-01 This uniquely interdisciplinary book is a practical resource on orthopedic MR imaging that bridges the backgrounds of radiologists and orthopedic surgeons. Radiologists learn why surgeons order imaging studies. They also learn terminology that will help them tailor reports to the specialty. Orthopedic surgeons gain insight on when to order an MRI, how MRI affects decision making, and how to interpret images. Case studies also depict key clinical and exam points, supplemented by MR images and illustrations. Shorter sections highlight other anatomical areas, and additional chapters address diagnostic accuracy and imaging pitfalls.

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ac joint separation physical therapy: Shoulder Reconstruction Charles S. Neer, 1990 Here's the definitive description of shoulder reconstruction by the surgeon who pioneered most of the techniques. Discusses such common clinical problems as cuff tears, bicep lesions, and impingement. Provides background and technique for glenohumeral arthroplasty, including pathology and special technical problems. Develops the modern classification and approach to treatment of proximal humeral fractures. Illustrated throughout with original artwork by renowned medical artist, Robert J. Demarest.

ac joint separation physical therapy: Clavicle Injuries Gordon I. Groh, 2017-09-12 This is the first book of its kind to specifically cover all aspects of clavicle injury management, from anatomy and biomechanics to anesthesia and radiology, with the bulk of the chapters presenting current treatment strategies, both operational and otherwise. The clavicle is the most frequently injured bone in the human body, but despite the frequency of injury, there is a remarkable breadth of treatment options and controversy regarding operative and non-operative treatment, with intramedullary fixation and plating techniques both having avid supporters. Each chapter presents expert opinion and relies on biomechanics, anatomy, radiography, evidence-based medicine and outcome studies to reach their conclusions. Technique chapters include illustrative case material,

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ac joint separation physical therapy: *Mayo Clinic Principles of Shoulder Surgery* Joaquin Sanchez-Sotelo, 2018 Mayo Clinic Principles of Shoulder Surgery provides the basic principles and foundational knowledge for this orthopedic specialty in a concise and easy-to-use manner. The book, written by a well-seasoned surgeon with years of experience training residents and fellows, pulls together a comprehensive reference for interdisciplinary use, relevant to many fields including sports medicine, rheumatology, and rehabilitation. Dr. Sanchez-Sotelo covers an array of topics starting with history taking, the physical examination, the use and understanding of advanced imaging techniques, and performing surgical procedures such as fracture fixation, arthroscopic surgery, tendon transfers, and replacement, all visually enhanced with relevant videos. This book is the perfect resource for all medical libraries, whether you are a student, primary care physician, physical therapist, or allied health professional. Key Features of Mayo Clinic Principles of Shoulder Surgery -Highly illustrated with detailed figures and tables throughout and a key point summary boxes at the end of every chapter to improve comprehension -Includes over 40 videos of the most common procedures performed by an orthopedic surgeon -Each chapter includes a color coded tab to facilitate easy navigation at-a-glance -Organized into concise chapters for quick review

ac joint separation physical therapy: 9 Out of 10 Climbers Make the Same Mistakes Dave MacLeod, 2009-11 9 out of 10 climbers are stuck. They are stuck on the same things. Some of the things that hold climbers back from improving their climbing standard are the same as they were twenty years ago: motivation, managing time, and not being able to analyse and correct their own basic technical or tactical errors. But they are also stuck for a new set of reasons. Twenty years ago, the problem was that no one knew how to train for climbing. Information was scarce and couldn't travel fast among the participants. Today, it's the opposite problem. Book after book lists techniques for climbing, exercises for climbing, tips for climbing. Navigating this barrage of information, filtering out the irrelevant and homing in on what matters to your life, your climbing and your circumstances has been the limiting step for today's climber.--Page 4 of cover.

ac joint separation physical therapy: *Kinesiology of the Musculoskeletal System* Donald A. Neumann, 2010 Brilliantly and abundantly illustrated, this dynamic resource is the most comprehensive, research-based, reader-friendly text on kinesiology. An engaging approach explores the fundamental principles in vivid detail and clarifies the link between the structure and function of the musculoskeletal system to help you ensure a clear, confident understanding. UNIQUE! Clinical Connections boxes in each chapter enhance your understanding and promote practical application. Special Focus boxes and clinical examples throughout the text bridge classroom content with real-world application to help you succeed in practice. Logically organized content establishes an understanding of fundamental concepts before moving on to more complex material to make learning easier. Chapter outlines provide a framework for learning and enable you to reference specific topics at a glance. UNIQUE! A companion Evolve Resources website reinforces your understanding through kinesiology video clips and answers to study questions. UNIQUE! More than 500 high-quality, full-color illustrations clarify musculoskeletal anatomy and reinforce anatomic concepts. Study questions in each chapter test your comprehension and strengthen your critical-thinking capabilities.

ac joint separation physical therapy: *Mechanics, Pathomechanics and Injury in the Overhead Athlete* W. Ben Kibler, Aaron D. Sciascia, 2019-05-07 As clinical interest in overhead athletic injuries is on the upswing, so is greater interest in the factors for performance and injury risk in throwing and other overhead motion. This practical, case-based text is divided into two sections and will

present the basic principles of overhead athletes followed by unique clinical case presentations describing different aspects of performance, injury and management in throwing and other overhead athletes. Part I discusses the mechanics and pathomechanics of the overhead motion, along with principles of evaluation, the physical exam, surgical management of both the shoulder and elbow, rehabilitation and return to play, injury risk modification, and the role of the scapula. Unique clinical cases comprise all of part II and follow a consistent format covering the history, exam, imaging, diagnosis and outcome of the chosen intervention. These cases illustrate a cross-section of sports and activities, from the baseball player to the swimmer, and a range of shoulder and elbow problems in pediatric and adult overhead athletes. Providing a unique case-based approach to a growing hot topic, *Mechanics, Pathomechanics and Injury in the Overhead Athlete* is an ideal resource for orthopedic surgeons, sports medicine specialists, physiatrists, physical therapists, certified athletic trainers and allied medical professions treating active persons of all ages.

ac joint separation physical therapy: Shoulder Instability William Levine, 2009 Helps to improve your care and management of the unstable shoulder. This title discusses arthroscopic management of the unstable shoulder, highlighting technical advances that have helped improve patient outcomes. It also helps to gain insight on the contraindications to arthroscopic instability and on open instability repairs.

ac joint separation physical therapy: Frozen Shoulder Workbook Clair Davies, 2006 From the renowned author of the best-selling Trigger Point Therapy Workbook comes this first-ever book of self-care techniques for frozen shoulder, a very common painful and mobility-restricting condition.

ac joint separation physical therapy: Sports Medicine for the Emergency Physician Anna L. Waterbrook, 2016-04-25 Written by sports-trained emergency physicians *Sports Medicine for the Emergency Physician: A Practical Handbook* is the only resource of its kind, created specifically for the emergency medicine provider. It is designed to be used as a reference tool, and includes high-yield physical exam skills and key management of sport injuries in the emergency department. Each chapter is dedicated to a specific joint (or joints) and includes the basics of a high-yield physical examination including inspection, palpation, range of motion, special tests, as well as neurovascular and skin exams. Corresponding figures of essential anatomy, pictures of physical exam maneuvers, and clinical correlations are also featured. Emergent and common musculoskeletal conditions for each joint(s) are discussed, as well as the appropriate emergency department management for each condition. Additional chapter topics include sports concussions, sports cardiology, heat illness, and common splints used in the emergency department.

ac joint separation physical therapy: Rotator Cuff Disorders Wayne Z. Burkhead, 1996 A text on the rotator cuff, with nine chapters written by Burkhead himself, and the remaining 24 chapters contributed by nationally and internationally recognized physicians and shoulder surgeons. The volume contains seven sections: history of cuff repair (1 chapter); basic science and the rotator cuff (3 chapters); evaluation and classification of cuff lesions (3 chapters); clinical disorders (10 chapters); conservative treatment of cuff defects and impingement syndrome (2 chapters); arthroscopic management of rotator cuff disease (1 chapter); and surgical management of massive cuff tears and degeneration (13 chapters). Thoroughly illustrated in bandw, with extensive chapter references. Annotation copyright by Book News, Inc., Portland, OR

ac joint separation physical therapy: Therapeutic Taping for Musculoskeletal Conditions Maria Constantinou, Mark Brown, 2010 Aims to provide a scientific context and a practical approach to a variety of taping techniques for musculoskeletal conditions that can be used by physical and sports therapists and others as an adjunct to other therapy and treatment techniques. Constantinou, Griffith University; Brown, Bond University, Australia.

ac joint separation physical therapy: Wound Care Carrie Sussman, Barbara M. Bates-Jensen, 2007 Designed for health care professionals in multiple disciplines and clinical settings, this comprehensive, evidence-based wound care text provides basic and advanced information on wound healing and therapies and emphasizes clinical decision-making. The text integrates the latest scientific findings with principles of good wound care and provides a complete

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ac joint separation physical therapy: Office Orthopedics for Primary Care: Treatment Bruce Carl Anderson, 2005-09-26 The revised and expanded 3rd Edition of this widely popular text provides proven how-to guidance for the management of 52 of the most common musculoskeletal disorders seen in today's clinical settings, including strains, sprains, overuse injuries, and inflammatory and arthritic conditions. It explains each problem, how a typical patient describes the discomfort, what to look for during the examination, when to request X-rays, and how to draw a sound diagnosis from clinical observations. The text features updated tables of supports, braces, and casts that make it easy to choose the most efficient and cost-effective immobilizers. Features the expertise of Dr. Bruce Carl Anderson, a world authority on orthopedic practice in primary care. Presents straightforward, proven how-tos for the 52 most common orthopedic problems-20 new to this edition. Offers detailed descriptions and simple but effective anatomical drawings that demonstrate the 37 most effective local injection sites. Features 30 ready-to-copy patient information sheets that show patients how to do rehabilitation exercises. Includes many at-a-glance tables that compare dosages * outline costs * detail the uses of injectable corticosteroids, NSAIDs, and calcium supplements * and show supports, braces, and casts. Covers new treatments that have become more common in recent years, such as treatment for geriatric patients and exercise-related injuries. Features expanded patient education content, including more patient handouts than ever. Includes 100 new anatomical drawings.

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ac joint separation physical therapy: Sports Injuries of the Shoulder Lennard Funk, Mike Walton, Adam Watts, Michael Hayton, Chye Yew Ng, 2019-10-29 This book provides a practical guide detailing the aetiology, diagnosis, relevant pathology, management principles, and outcomes of a variety of injuries to the shoulder including rotator cuff disorders, glenoid bone loss, and pectoralis major ruptures in both elite and non-elite athletes. Each chapter features clinical pearls and a question and answer section to emphasize key points. Sports Injuries of the Shoulder is an essential book for those seeking an up-to-date resource. It is aimed at sports doctors and musculoskeletal doctors; senior orthopedic trainees with an interest in upper limb and those preparing for the FRCSOrth exam and similar international exams, as well as surgeons with a particular interest in shoulder conditions.

ac joint separation physical therapy: Intraarticular Fractures Mahmut Nedim Doral, Jón Karlsson, John Nyland, Karl Peter Benedetto, 2019-05-15 This superbly illustrated book is a comprehensive and detailed guide to the contemporary arthroscopic management of intraarticular fractures. The opening section addresses a variety of basic aspects and key issues, including the difficulties posed by intraarticular fractures, principles of fixation, cartilage healing, and

rehabilitation. The minimally invasive surgical techniques appropriate to individual types of fracture are then fully described and depicted, covering fractures of the shoulder and elbow, wrist, pelvis and hip, knee, and ankle. Guidance is also provided on avoidance and management of complications and rehabilitation. The closing section addresses relevant miscellaneous issues, including arthroscopic management of temporomandibular joint fractures and extended indications for endoscopy-assisted fracture fixation. This volume will be of value for both trainee and experienced surgeons when treating patients with these complex fractures.

ac joint separation physical therapy: *Concepts of Rehabilitation for the Management of Common Health Problems* Gordon Waddell, A. Kim Burton, 2004 Although there is broad agreement on the importance of rehabilitation and the need to improve occupational health and vocational rehabilitation in the UK, there is considerable uncertainty about what 'rehabilitation' is, and about its cost-effectiveness, particularly for the common health problems that cause most long-term disability and incapacity. This paper seeks to develop a theoretical and conceptual basis for the rehabilitation of common health problems. Chapters include: traditional rehabilitation and the need for a different approach; illness, disability and incapacity for work; the biopsychosocial model and framework of disability; obstacles to recovery and return to work; clinical and occupational management of common health problems; personal responsibility and motivation; and rehabilitation in a social security context.

ac joint separation physical therapy: *Rebuilding Milo* Aaron Horschig, 2021-01-19 Every athlete who spends time in the weight room eventually deals with pain/injury that leaves them frustrated and unable to reach their highest potential. Every athlete ought to have the ability to take the first steps at addressing these minor injuries. They shouldn't have to wait weeks for a doctor's appointment, only to be prescribed pain medications and told to "take two weeks off lifting" or, even worse, to "stop lifting so heavy." Dr. Aaron Horschig knows your pain and frustration. He's been there. For over a decade, Dr. Horschig has been a competitive weightlifter, and he understands how discouraging it is to tweak your back three weeks out from a huge weightlifting competition, to have knee pain limit your ability to squat heavy for weeks, and to suffer from chronic shoulder issues that keep you from reaching your goals. *Rebuilding Milo* is the culmination of Dr. Horschig's life's work as a sports physical therapist, certified strength and conditioning specialist, and Olympic weightlifting coach. It contains all of the knowledge he has amassed over the past decade while helping some of the best athletes in the world. Now he wants to share that knowledge with you. This book, designed by a strength athlete for anyone who spends time in the weight room, is the solution to your struggles with injury and pain. It walks you through simple tests and screens to uncover the movement problem at the root of your pain. After discovering the cause of your injury, you'll be able to create an individualized rehab program as laid out in this book. Finally, you'll be on the right path to eliminate your pain and return to the activities you love.

ac joint separation physical therapy: *Dry Needling for Manual Therapists* Giles Gyer, Jimmy Michael, Ben Tolson, 2016-01-21 Designed to be a go-to reference for assessment and treatment planning in the clinic, this is a clear and concise handbook for students and practitioners of dry needling, or medical acupuncture. It includes: · Comprehensive medical illustrations demonstrating trigger point locations and associated pain referral patterns · Easy-to-follow instructions and photographs demonstrating musculoskeletal dry needling points and electroacupuncture techniques · Dedicated section on the acupuncture treatment of tendinopathy · Vital information on palpation and correct needling techniques · Practical guidance on best practice, safety and treatment planning · Overviews of the history and key principles of Traditional Chinese medicine and acupuncture · Up-to-date research on the effect of acupuncture in the treatment of MSK conditions, myofascial pain, trigger points (MTrPS), fascia and pain. The book will be an essential aid for osteopaths, physiotherapists, sports rehabilitators, chiropractors, massage therapists, as well as traditional acupuncturists wishing to understand a Western approach on acupuncture. Other health professionals incorporating, or looking to incorporate dry needling into their treatment programme, will also find this book an invaluable resource.

ac joint separation physical therapy: *Clinical Pathways in Stroke Rehabilitation* Thomas Platz, 2021-01-14 This open access book focuses on practical clinical problems that are frequently encountered in stroke rehabilitation. Consequences of diseases, e.g. impairments and activity limitations, are addressed in rehabilitation with the overall goal to reduce disability and promote participation. Based on the available best external evidence, clinical pathways are described for stroke rehabilitation bridging the gap between clinical evidence and clinical decision-making. The clinical pathways answer the questions which rehabilitation treatment options are beneficial to overcome specific impairment constellations and activity limitations and are well acceptable to stroke survivors, as well as when and in which settings to provide rehabilitation over the course of recovery post stroke. Each chapter starts with a description of the clinical problem encountered. This is followed by a systematic, but concise review of the evidence (RCTs, systematic reviews and meta-analyses) that is relevant for clinical decision-making, and comments on assessment, therapy (training, technology, medication), and the use of technical aids as appropriate. Based on these summaries, clinical algorithms / pathways are provided and the main clinical-decision situations are portrayed. The book is invaluable for all neurorehabilitation team members, clinicians, nurses, and therapists in neurology, physical medicine and rehabilitation, and related fields. It is a World Federation for NeuroRehabilitation (WFNR) educational initiative, bridging the gap between the rapidly expanding clinical research in stroke rehabilitation and clinical practice across societies and continents. It can be used for both clinical decision-making for individuals and as well as clinical background knowledge for stroke rehabilitation service development initiatives.

ac joint separation physical therapy: *Parenting Matters* National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Children, Youth, and Families, Committee on Supporting the Parents of Young Children, 2016-12-21 Decades of research have demonstrated that the parent-child dyad and the environment of the family—which includes all primary caregivers—are at the foundation of children's well-being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. Parenting Matters identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the United States.

ac joint separation physical therapy: *Textbook of Shoulder Surgery* Ian A. Trail, Lennard Funk, Amar Rangan, Matthew Nixon, 2019-02-26 This textbook provides the most up-to-date information on shoulder surgery along with practical approaches for patient evaluation and treatments options. The book is divided into key sections, providing coverage on Soft Tissue Disorders of the Shoulder, Arthritis of the Shoulder, The Paediatric Shoulder and other

miscellaneous topics relevant to treating this area. Its strong clinical focus will help residents and medical students to manage patients in a practical way, based on the most recent scientific evidence and the most effective surgical and non-surgical techniques. Thus, it will become a valuable reference and resource for young doctors and students looking to increase their professional skills and knowledge when treating shoulder injuries and disorders in clinical practice.

ac joint separation physical therapy: Principles of Therapeutic Exercise for the Physical Therapist Assistant Jacqueline Kopack, Karen Cascardi, 2024-06-01 Principles of Therapeutic Exercise for the Physical Therapist Assistant is a textbook that provides PTA educators, students, and practicing clinicians with a guide to the application of therapeutic exercise across the continuum of care. Written by 2 seasoned clinicians with more than 40 years of combined PTA education experience, Principles of Therapeutic Exercise for the Physical Therapist Assistant focuses on developing the learner's ability to create effective therapeutic exercise programs, as well as to safely and appropriately monitor and progress the patient within the physical therapy plan of care. The content is written in a style conducive to a new learner developing comprehension, while still providing adequate depth as well as access to newer research. Included in Principles of Therapeutic Exercise for the Physical Therapist Assistant are: • Indications, contraindications, and red flags associated with various exercise interventions • Documentation tips • Easy-to-follow tables to aid in understanding comprehensive treatment guidelines across the phases of rehabilitation • Eye on the Research sections throughout the text dedicated to current research and evidence-based practices Also included with the text are online supplemental materials for faculty use in the classroom, consisting of PowerPoint slides and an Instructor's Manual (complete with review questions and quizzes). Created specifically to meet the educational needs of PTA students, faculty, and clinicians, Principles of Therapeutic Exercise for the Physical Therapist Assistant is an exceptional, up-to-date guidebook that encompasses the principles of therapeutic science across the entire continuum of care.

ac joint separation physical therapy: Orthopedic Interventions for the Physical Therapist Assistant Maureen Raffensperg, 2019-11-05 First laying the foundation of the role of the PTA within the orthopedic plan of care, this text offers students the fundamental knowledge needed to best understand how the PT evaluates a patient. From principles of tissue healing to detailed descriptions of the most common pathologies, tests and interventions for each body region, this text prepares the PTA for best patient education and care.

ac joint separation physical therapy: The Unstable Shoulder Russell F. Warren, Edward V. Craig, David Altchek, 1999 Featuring over 500 illustrations--143 in full color--this volume provides definitive guidance on evaluation, repair, and rehabilitation of shoulder instability. Leading experts describe today's most successful surgical and nonsurgical approaches to acute dislocations; recurrent instability; multidirectional instability; instability in throwing athletes; fracture dislocations; dislocations associated with rotator cuff tears; instability following prosthetic arthroplasty; and many other conditions. The comprehensive coverage includes pertinent anatomy, biomechanics, and pathophysiology; diagnostic studies; open and arthroscopic surgical procedures; and innovative techniques such as heat shrinkage of collagen. The contributors guide the clinician through every phase of patient management, from initial presentation to long-term rehabilitation. Their practical advice will help the reader conduct a thorough clinical examination; establish the differential based on the cause of injury; select appropriate diagnostic imaging studies; fine-tune surgical and nonsurgical interventions according to each patient's unique circumstances; and prevent and manage complications. The illustrations include surgical figures, diagrams, radiographs, and endoscopic images.

ac joint separation physical therapy: Families Caring for an Aging America National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Health Care Services, Committee on Family Caregiving for Older Adults, 2016-12-08 Family caregiving affects millions of Americans every day, in all walks of life. At least 17.7 million individuals in the United States are caregivers of an older adult with a health or functional limitation. The nation's

family caregivers provide the lion's share of long-term care for our older adult population. They are also central to older adults' access to and receipt of health care and community-based social services. Yet the need to recognize and support caregivers is among the least appreciated challenges facing the aging U.S. population. Families Caring for an Aging America examines the prevalence and nature of family caregiving of older adults and the available evidence on the effectiveness of programs, supports, and other interventions designed to support family caregivers. This report also assesses and recommends policies to address the needs of family caregivers and to minimize the barriers that they encounter in trying to meet the needs of older adults.

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