

active assisted shoulder exercises

Active Assisted Shoulder Exercises: A Critical Analysis of Current Trends

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Publisher: Elsevier – A leading publisher of scientific, technical, and medical information, known for its rigorous peer-review process.

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Keywords: active assisted shoulder exercises, shoulder rehabilitation, shoulder range of motion, rotator cuff injuries, frozen shoulder, physiotherapy, active assisted ROM, assisted exercises, shoulder pain, post-surgical rehabilitation.

Abstract: This analysis critically examines the role and impact of active assisted shoulder exercises in contemporary rehabilitation practices. We explore the evidence supporting its effectiveness across various shoulder pathologies, including rotator cuff tears, adhesive capsulitis (frozen shoulder), and post-surgical rehabilitation. The article also discusses the limitations and potential drawbacks of active assisted shoulder exercises, emphasizing the importance of individualized treatment plans tailored to specific patient needs and progress. Finally, it highlights current trends, future directions, and the integration of active assisted shoulder exercises within a broader rehabilitation strategy.

1. Introduction: The Rise of Active Assisted Shoulder Exercises

Active assisted shoulder exercises represent a cornerstone of modern shoulder rehabilitation. Unlike passive range of motion (PROM) exercises, where the therapist moves the patient's shoulder passively, active assisted shoulder exercises engage the patient actively in the movement, with assistance provided by the therapist or assistive devices as needed. This approach leverages the principles of neuromuscular re-education and proprioceptive feedback, promoting faster recovery and improved functional outcomes. The increasing prevalence of shoulder pathologies, coupled with the growing

understanding of the benefits of active participation in rehabilitation, has significantly boosted the use of active assisted shoulder exercises.

1. Evidence-Based Efficacy of Active Assisted Shoulder Exercises

Numerous studies support the efficacy of active assisted shoulder exercises in improving range of motion (ROM), reducing pain, and enhancing functional outcomes in patients with various shoulder conditions. For instance, active assisted shoulder exercises have shown significant improvements in patients recovering from rotator cuff injuries, enabling a quicker return to functional activities. In adhesive capsulitis (frozen shoulder), where stiffness is a major limitation, active assisted techniques, often combined with mobilization techniques, gradually restore ROM and alleviate pain. Post-surgical rehabilitation, particularly following shoulder arthroscopy or rotator cuff repair, often incorporates active assisted shoulder exercises to prevent stiffness and promote controlled movement. However, the level of assistance required varies significantly depending on the patient's condition, the stage of rehabilitation, and the specific exercise.

1. Choosing the Right Active Assisted Shoulder Exercises: A Personalized Approach

The selection of appropriate active assisted shoulder exercises is crucial for optimal outcomes. A comprehensive assessment of the patient's condition, including pain levels, ROM limitations, muscle strength, and overall functional capacity, is essential. The therapist must tailor the exercise program to address specific impairments and progress gradually to avoid re-injury or exacerbation of symptoms. This may involve starting with gentle pendulum exercises and progressing to more challenging active assisted movements such as flexion, extension, abduction, adduction, internal and external rotation. The level of assistance provided should be adjusted dynamically, reducing support as the patient's strength and ROM improve.

1. Limitations and Potential Drawbacks of Active Assisted Shoulder Exercises

While generally safe and effective, active assisted shoulder exercises are not without limitations. Improper technique can lead to increased pain or re-injury, emphasizing the importance of proper training and supervision by qualified healthcare professionals. Some patients, particularly those with

severe pain or significant muscle weakness, may find initial participation challenging. In such cases, a gradual and phased approach, potentially starting with passive ROM exercises, may be necessary before progressing to active assisted shoulder exercises. Moreover, the effectiveness of active assisted shoulder exercises depends heavily on patient compliance and adherence to the prescribed program.

1. Integrating Active Assisted Shoulder Exercises into a Broader Rehabilitation Strategy

Active assisted shoulder exercises rarely stand alone as a complete rehabilitation program. They are often integrated with other modalities, including manual therapy techniques (mobilization, manipulation), therapeutic exercise (strengthening, endurance), electrotherapy (ultrasound, electrical stimulation), and patient education. This holistic approach addresses various aspects of the patient's condition, maximizing the chances of a successful and complete recovery. The integration of active assisted shoulder exercises with other interventions needs careful planning and coordination to ensure a cohesive and effective rehabilitation strategy.

1. Current Trends and Future Directions in Active Assisted Shoulder Exercises

The field of shoulder rehabilitation is constantly evolving. Current trends include incorporating technology into active assisted shoulder exercises, such as using robotic devices or virtual reality systems to provide precise feedback and individualized assistance. This technology can enhance patient engagement, motivation, and ultimately, better rehabilitation outcomes. Future research will likely focus on further refinement of exercise selection, optimization of assistance levels, and exploration of novel technologies to enhance the effectiveness and accessibility of active assisted shoulder exercises.

1. Conclusion

Active assisted shoulder exercises represent a valuable tool in the rehabilitation of various shoulder pathologies. Their efficacy in improving ROM, reducing pain, and enhancing functional outcomes is well documented. However, a personalized approach, informed by a thorough assessment and a comprehensive rehabilitation strategy, is crucial for maximizing benefits and

minimizing risks. The integration of technology and ongoing research will continue to shape the future of active assisted shoulder exercises, paving the way for more effective and accessible rehabilitation solutions.

FAQs:

1. Are active assisted shoulder exercises suitable for all shoulder conditions? No, active assisted shoulder exercises are not suitable for all shoulder conditions. The suitability depends on the specific diagnosis, stage of injury, and the individual patient's response. A qualified healthcare professional should always assess the suitability before starting any exercise program.
1. How long does it take to see results from active assisted shoulder exercises? The time frame for seeing results varies greatly depending on the individual, the severity of the injury, and the adherence to the exercise program. Some patients might experience improvement within weeks, while others may need several months.
1. What are the potential risks associated with active assisted shoulder exercises? Potential risks include increased pain, re-injury, and improper technique leading to further complications. Proper guidance from a qualified therapist is essential to minimize these risks.
1. Can I do active assisted shoulder exercises at home? While some simple active assisted exercises can be performed at home, it is crucial to receive proper instruction and supervision from a healthcare professional initially to ensure correct technique.
1. How many times a week should I perform active assisted shoulder exercises? The frequency of active assisted shoulder exercises depends on individual needs and the therapist's recommendations. It could range from several times a day to several times a week.
1. What is the difference between active assisted and passive range of motion exercises? Active assisted exercises involve active participation

of the patient with assistance, while passive range of motion exercises are performed entirely by the therapist.

1. Are there any specific precautions I should take while performing these exercises? Yes, listen to your body, stop if you feel sharp pain, and always perform exercises within your comfort level. A proper warm-up before the exercises is also crucial.
1. Should I combine active assisted exercises with other therapies? Combining active assisted exercises with other therapies like manual therapy or electrotherapy is often more effective in achieving a complete recovery.
1. What if I experience increased pain during active assisted shoulder exercises? If you experience increased pain, you should stop the exercise immediately and consult your healthcare provider.

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Charalambous, 2019-02-27 This book provides a concise and up-to-date resource on common shoulder disorders. The reader will learn about various shoulder conditions, their presentation, evaluation and management. Anatomy, biomechanics, function, clinical history taking and examination, radiological imaging and other investigations, as well as principles of non-surgical and surgical management of the troublesome shoulder are presented first. The *Shoulder Made Easy* conveys clear, easily understood information to help practitioners in day-to-day clinical practice as well as in preparation for undergraduate or postgraduate exams. The book focuses on: Commonly encountered clinical symptoms of the shoulder: patients don't present with a clinical diagnosis but with symptoms such as pain, stiffness, weakness or instability and a thorough consideration of what could be accounting for such symptoms and how such symptoms may be dealt with is presented. Commonly encountered clinical disorders of the shoulder: each clinical disorder is concisely presented with the background, clinical symptoms, investigations, differential diagnosis, treatment and a further reading section. This book attempts to present information in an easily read, succinct way. In particular, this book tries to unpick and explain those concepts of shoulder disorders that may be difficult to understand. An attempt is made to pass on knowledge but more importantly also stimulate lateral thinking. Key diagrams, clinical photographs and radiographs are used as necessary to highlight important points; references to relevant landmark articles are also provided in each chapter. The book will be of great interest to medical students, junior orthopaedic doctors, GP's and physiotherapists.

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all-inclusive manual. To that end, *The Comprehensive Manual of Therapeutic Exercises: Orthopedic and General Conditions* was written as a fundamental resource on exercise theory and techniques, and as a comprehensive guide for designing exercise programs. Dr. Elizabeth Bryan has compiled thousands of clinically relevant exercises to create a text that will teach students theory and proper application that they will then return to again and again in their career as a reference to aid in designing evidence-based exercise programs for their clients or patients. Introductory chapters cover exercise parameters, exercise progression, the importance of form, muscle soreness, and a reference for body position terminology, then subsequent chapters are organized by body area to cover most of the clinical exercises in use today. Each exercise includes photographs, a list of muscle systems that will be affected, specific substitutions to look for, and detailed instructions directed at students and clinicians. Also included are sections devoted to protocols and specialty exercises including yoga and tai chi. Embracing the principles of evidence-based practice, "Where's the Evidence?" boxes are prominently featured throughout the text to support the exercises and theory with up-to-date, relevant, sufficient, valid, and reliable studies. Combining theory with practice, *The Comprehensive Manual of Therapeutic Exercises: Orthopedic and General Conditions* is an essential tool for students as well as clinicians, practitioners, or trainers to find the most appropriate exercises for their client's or patient's needs and apply them properly.

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want to ask your attending in the OR. Presents a consistent chapter organization, including bulleted lists and treatment algorithms that make reference a snap.

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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.

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active assisted shoulder exercises: A Comprehensive Guide to Sports Physiology and Injury Management Stuart Porter, Johnny Wilson, 2020-11-13 Divided into two parts, physiology and sports injury management, this is an innovative clinical- and evidence-based guide, which engages with the latest developments in athletic performance both long and short term. It also considers lower level exercise combined with the pertinent physiological processes. It focuses on the rationale behind diagnostic work up, treatment bias and rehabilitation philosophy, challenging convention within the literature to what really makes sense when applied to sports settings. Drawing upon experts in the field from across the world and various sports settings, it implements critical appraisal throughout with an emphasis on providing practical solutions within sports medicine pedagogy. - Dovetails foundational sports physiology with clinical skills and procedures to effectively manage sports injuries across a variety of settings - Takes an interdisciplinary approach and draws upon both clinical- and evidence-based practice - Contributed by leading international experts including academics, researchers and in-the-field clinicians from a range of sports teams including the Royal Ballet and Chelsea FC - Pedagogical features include learning objectives, clinical tip boxes, summaries, case studies and Editor's commentary to/critique of concepts and techniques across chapters

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active assisted shoulder exercises: The Physiotherapist's Pocket Guide to Exercise E-Book Angela Jane Glynn, Helen Fiddler, 2009-04-07 This book is for therapists involved in exercise therapy for the prevention and treatment of disease. It covers exercise assessment, current prescription guidelines, precautions, exercise design and clinical case studies. The book also includes exercises to increase strength, power, local muscle endurance, range of movement and

aerobic capacity and will be relevant to all areas of therapy practice. In addition to the general guidelines, considerations for exercise groups and exercise at home as well as exercise in special patient populations are addressed. This allows therapists who are expert in one area to become familiar with exercise prescription in another. The book underpins therapeutic exercise in general and also addresses specific considerations for particular clinical situations within current guidelines and practical considerations. - Underpinning exercise physiology - Physical principles of exercise design - Guidelines for exercise training - Clinical exercise prescription - Limitations to exercise in common conditions - Example case studies

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active assisted shoulder exercises: *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.

Additional Resources

HOULDER EXERCISES ACTIVE/ASSISTED - Coastal Orthopaedics

These exercises are to help increase range of movement with some form of assistance. Always exercise within your pain limit. 1. CIRCLES. Lean forward

so arm comes away from your body. ...

ROTATOR CUFF HOME EXERCISE PROGRAM - Shoulder Study

Oct 8, 2017 · active assisted range of motion exercises Involved arm/side = the same arm or side as the shoulder being treated Uninvolved arm/side = the opposite arm or side from the ...

Shoulder active and assisted exercises - Royal Berkshire

Exercises following a shoulder injury. 1. Lean forwards in a steady, supporting position. Hold a light weight (e.g. tin of beans) in your hand on the injured side. Swing your arm forward and ...

Shoulder Exercises 3.18 - Twin Cities Orthopedics

Mar 18, 2020 · ACTIVE ASSISTED SHOULDER EXTERNAL ROTATION: • Stand with elbows bent to 90 degrees, holding stick in front of you. • Push the stick outward to rotate your involved ...

Shoulder range of motion exercises - Patient advice sheet

Active Assisted Shoulder Flexion (Forwards) hands. Place your affected side hand on the top of the stick as the picture shows. Using your unaffected hand to help lift the shoulder upwards in ...

EXERCISE SHEET | 03 SUSSEX active assisted exercises ...

Hold a stick with your hands just wider than your shoulders. Lift your arms up over your head until you feel a stretch. Do not force the movement. Hold for a few seconds then lower. Lie flat with ...

ACTIVE ASSIST SHOULDER EXERCISES - Carleen Lindsey, PT

ACTIVE ASSIST SHOULDER EXERCISES 1. Pendulum (Codman's) Exercise 2. Self-assist Wall Crawl 3. Pulleys: Arm in Front (Flexion) Arm to Side (Abduction) POSTURE: Shoulders level, ...

SHOULDER ROM HOME PROGRAM 1. Active assisted ...

Active assisted shoulder flexion Begin lying on your back with both knees bent and your feet on the bed; lift your affected arm either by using your unaffected arm or by holding a small ...

Shoulder Rehabilitation Guide - Cathal J Moran

1. Active Assisted Abduction Using a stick to assist (as shown), raise your operated arm out to side with elbow straight and palm facing upwards. Do not shrug your shoulder or tilt your trunk. ...

SHOULDER: Stretching Exercises - Mammoth Ortho

This handout illustrates some basic range of motion exercises for the shoulder. They should be performed within your comfort zone unless otherwise instructed. Unless your doctor feels that ...

Shoulder Active Assistive Range of Motion - Twin Cities ...

Raise both hands overhead, so that you feel a stretch. Lie on back holding stick as shown, with involved hand out to side. Using the stick for assistance, stretch your arm out to side and ...

Nonoperative Rehabilitation for Full Thickness Rotator Cuff ...

Active training of the scapula muscles (rhomboid, serratus, trapezius, levator scapulae, and pectoralis minor) should be done using the exercises depicted, by doing shoulder shrugs and ...

OT Concept - Occupational Therapy in Long Island City | Fast ...

Shoulder Passive and Active-Assisted Exercises – Shoulder Retraction Pull your shoulders back and together. Right Complete Pendulum set(s) of Stand or sit leaning forward. Relax your ...

Shoulder Exercises - Medway NHS

Early Shoulder Exercises (Pendulum Exercises) These exercises aim to gently move the shoulder joint to prevent stiffness while your injury heals. Pendulum flexion In standing, support your ...

Shoulder range of motion exercises - Patient advice sheet

These Exercises are intended to assist with mobility for your Shoulder through the rehabilitation process. These exercises are intended as a guide and prior to starting you should have had ...

Shoulder Active Range of Motion - My Doctor Online

Your physical therapist or doctor recommends the following personalized exercise program for you to help with your recovery. Please follow these instructions on how often to hold or repeat ...

SHOULDER RANGE OF MOTION EXERCISES - cdn.ymaws.com

Introduction: These exercises are recommended by us for you to perform on your own to regain your shoulder range of motion. These should be done at least once per day but not more than ...

Shoulder Range of Motion Exercises

Shoulder Range of Motion Exercises • Perform PASSIVE, well-arm (nonoperative) assisted forward flexion and external rotation (outward turning) exercises with the operative arm.

Only Do The Exercises Indicated By Your Surgeon - tcomn.com

ACTIVE ASSISTED SHOULDER EXTERNAL ROTATION: Stand with elbows bent to 90 degrees, holding stick in front of you. Push the stick outward to rotate your involved hand and forearm ...

Early-stage exercises for shoulder injuries - University Hospital ...

Shoulder exercises should be performed regularly and frequently to maintain or improve movement. The aims of 'shoulder range of movement exercises' are to encourage movement ...

HOULDER EXERCISES ACTIVE/ASSISTED - Coastal ...

These exercises are to help increase range of movement with some form of

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