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NONSURGICAL ROTATOR CUFF TEAR REHABILITATION PROGRAM

Phase 1: Weeks 0-4

| Res | tri | ctions | | |
|--------------|-----|---|--|--|
| | | Avoid provocative maneuvers or exercises that cause discomfort o Includes both offending ROM exercises and strengthening exercises | | |
| | | Patients may have an underlying coracoacromial bursitis, therefore ROM exercises and muscle strengthening exercises should begin with the arm in less than 90° of abduction | | |
| Г | | Avoid abduction-rotation – recreates impingement maneuver | | |
| | | Avoid "empty-can" exercises | | |
| lmm | ol | bilization | | |
| | | May have brief sling immobilization for comfort only (3-6 days) | | |
| Pain control | | | | |
| | | Reduction of pain and discomfort is essential for recovery | | |
| L | | Medications o NSAIDs – with caution in the elderly population | | |
| | | Subacromial / intra-articular injection of corticosteroid and local anesthetic; may be considered at discretion of physician | | |
| | | Therapeutic modalities | | |
| | | Ice, ultrasound, HVGS Maint heat hefers thereby ice at and of acceion. | | |
| | | Moist heat before therapy, ice at end of session | | |
| Sho | | der Motion | | |
| | | Goal | | |
| | | Internal and external rotation equal to contralateral side, with the arm positioned in less than 90° of abduction | | |
| | | Exercises | | |
| | | Begin with Codman pendulum exercises to gain early motion | | |
| | | Passive ROM exercises Forward flexion | | |
| | | Extension | | |
| | | Internal and external rotation | | |

Capsular stretching for anterior, posterior, and inferior capsule by using

the opposite arm

| | Avoid assisted motion exercises o Forward flexion |
|--------|---|
| | Extension |
| | Internal and external rotation |
| | Progress to active ROM exercises |
| | o "Wall-walking" |
| Elbov | v Motion |
| | Passive to active motion, progress as tolerated |
| | o 0-130° |
| | Pronation to supination as tolerated |
| Musc | le Strengthening |
| | Grip strengthening (racquetball, etc) |
| | Use of the arm for activities of daily living below shoulder level |
| Crite | ia for Progression to Phase 2 |
| | · |
| | Improvement of passive ROM |
| | Return of functional ROM |
| Phase | e 2: Weeks 4-8 |
| Goals | 3 |
| | Improve shoulder complex strength, power, and endurance |
| Restr | ictions |
| | Avoid provocative maneuvers or exercises that cause discomfort for the patient |
| | Includes both ROM exercises and strengthening exercises |
| Immo | bilization |
| | None |
| Pain (| control |
| | Reduction of pain and discomfort is essential for recovery |
| | Medications |
| | NSAIDs – with caution in the elderly population |
| | Subacromial / intra-articular injection of corticosteroid and local anesthetic; |
| | may be considered at discretion of physician |
| | Therapeutic modalities |
| | Ice, ultrasound, HVGS Moist heat before therapy, ice at end of session |
| | o moiot neat before therapy, for at one of session |

| Shou | lder Motion |
|-------|---|
| | Goal |
| | Equal to contralateral shoulder in all planes of motion |
| | Exercises |
| | Passive ROM |
| | Capsular stretching |
| | Active-assisted motion exercises |
| | Active ROM exercises |
| Elbov | v motion |
| | Passive to active motion, progress as tolerated |
| | o 0-130° |
| | Pronation to supination as tolerated |
| Musc | le strengthening |
| | Three times per week, 10-15 repetitions, for three sets |
| | Strengthening of the remaining rotator cuff muscles |
| | Begin with closed-chain isometric strengthening |
| | o Internal rotation |
| | External rotation |
| | o Abduction |
| | Progress to open-chain strengthening with very low weight dumbbells or equivalent |
| | Exercises performed with the elbow flexed to 90° |
| | Starting position is with the shoulder in neutral position of 0° forward |
| | flexion, abduction, and external rotation |
| | Exercises are done through an arc of 45° in each of the five planes of |
| | motion |
| | Strengthening of deltoid |
| | Strengthening of scapular stabilizers |
| | Closed-chain strengthening exercises |
| | Scapular retraction (rhomboids, middle trap) |
| | Scapular protraction (serratus anterior) |
| | Scapular depression (latissimus dorsi, trapezius, serratus anterior) |
| | Shoulder shrugs (upper trap) Described to a part of the property of the prince o |
| | Progress to open-chain scapular stabilizer strengthening |
| _ | ria for Progression to Phase 3 |
| | Full painless ROM |
| | No pain or tenderness with strengthening exercises |

Phase 3: Weeks 8-12

| Goals | Improve neuromuscular control and shoulder proprioception Prepare for gradual return to functional activities Establish a home exercise maintenance program that is performed at least three times per week for both stretching and strengthening |
|--------|---|
| Funct | ional strengthening Plyometric exercises |
| | essive, systematic interval program for returning to sports Throwing athletes Tennis Golf |
| Maxin | nal improvement is expected by 4-6 months |
| Warni | ng signals |
| | Loss of motion Lack of strength progression – especially abduction and forward elevation. Keep in mind goals may be limited depending upon patient health status, age, and tear size Continued pain – especially at night |
| Treatr | ment of warning signals |
| | These patients may need to move back to earlier routines May require increased utilization of pain control modalities as outlined above May require surgical intervention |
| | rotocol provides you with general guidelines for the nonsurgical rehabilitation of tient with a full-thickness rotator cuff tear. |

Specific changes in the program will be made by the physician as appropriate for the individual patient.

Questions regarding the progress of any specific patient are encouraged, and should be directed to Dr. Lervick at **952-456-7111**.

REFERENCE:

Clinical Orthopaedic Rehabilitation, 2nd edition. SB Brotzman, KE Wilk. Mosby 2003.