# Graft Jacket Rotator Cuff Reconstruction Protocol

## Preoperative

## Goals

- 1. Full Range of motion
- 2. Normal Scapular/GH/Clavicular glides
- 3. 0 to minimal edema
- 4. Improve Peri-Scapular muscle strength
- **5.** Independent in HEP

## Treatment:

- 1. Modalities to reduce inflammation/pain(Vasopneumatic)
- 2. Grade 2, 3 mobilization GH, Scapula, Clavicle
- 3. ROM exercises Passive/Active Assist/Active (pendulums, cane exercises, pulley, wall slides)
- 4. Peri-Scapular muscle PRE's(scapular retraction, gentle Theraband for retraction, extension, adduction, abduction)
- 5. Education in HEP/edema control

## Post-operative Day of Surgery

Goal:

- 1. Control edema
- 2. Initiate elbow, wrist and hand and shoulder shrug exercises for early ROM
- **3.** Use immobilizer all the time except for performing exercises, squeeze exercise ball as much as possible

## PHASE I (Week 0-2)

Shoulder - Phase 1 home exercises

- wrist, elbow and hand exercises
- squeeze exercise ball as much as possible
- lets them come out of brace during day when sitting comfortably

### PHASE Ia (Week 2-4)

- Shoulder PROM supine scapular plane
  - Codman pendulum exercises
  - Scapular mobilization
  - Flex: to tolerance 0 90 degrees
  - Abduction: 0 90 degrees
  - ER: 0 -30 degrees at modified neutral (do not stretch ER/IR)
  - consider initiating pool where available
  - Extension and Horizontal Adduction: Avoid
- Scapula AROM scapular shrugs, scapular retraction, scapular depression
- Elbow/Hand AROM Flex/ext in neutral and hand strengthening

### PHASE Ib(Week 4-6)

Shoulder	- PROM (supine)
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- Flex: to tolerance 0 120 degrees
- Abduction: maintain at 90 degrees until ER increases to 45 degrees then progress abduction to 120 degrees
- ER: 0 45 degrees at modified neutral. Slowly increase abduction position during ER/IR to 80 – 90 degrees by 4 weeks. No aggressive stretching.
- Be VERY cautious with IR to avoid tension on the Infraspinatus if repaired.
- Ext and Horizontal Adduction: Avoid
- Grade 1,2 GH mobilization in anterior, posterior, inferior directions for pain and spasms
- AROM scapular shrugs, scapular retraction, scapular depression.
- Scapula Elbow/hand
- Sub-max isometrics allow flav/axt in pautral shoulder position
- Ind Sub-max isometrics elbow flex/ext in neutral shoulder position

#### PHASE Ic(Week 6-8)

- PROM (supine)
- Flex: to tolerance 0 180 degrees or equal to uninvolved side
- Abduction: 150 180 degrees w/ deviation toward scapular plane
- ER: 70 90 degrees; IR: 40 60 degrees
- Ext: 30 degrees without stretching, Horizontal Adduction: Avoid
- Supine stabilization exercises for the scapular muscles
- AROM scapular shrugs, scapular retraction, scapular depression
- Elbow/Hand Sub-maximal Isometric elbow flex/ext in neutral shoulder position progress to gentle Isotonics:
  - 2-5 lb. BC curls and yellow Theraband Tricep pull-downs

#### PHASE II(Week 8-12)

Scapula

- Full ROM is allowed for PROM, AAROM, and AROM. Focus on proper technique and progress as tolerated.
- No resistance exercises for the Rotator Cuff until week 14
- Progress stabilization exercises to standing for the scapular muscles
- Scapula Peri-Scapular PRE's(Rhomboids, Middle/Lower Trapezius, Lats, Serratus Anterior etc.)
- Elbow/Hand Progress to 6 lb curls and increase resistance w/ triceps pull-downs

#### PHASE III(Week 12 – 16)

- Initiate light Rotator Cuff PRE's (14 weeks)at 0 degrees abduction w/ Theraband and progress to moderate resistance
- Progression of standing stabilization exercises
- Progress Bicep/Tricep/Peri-Scapular strength/conditioning
- Add PNF movements

#### PHASE IIII(Week 16-20)

- Moderate Rotator Cuff PRE's at 30 degrees abduction w/ Theraband and progress to high resistance at 60 degrees abduction
- Progression of standing stabilization exercises
- Progress Bicep/Tricep/Peri-Scapular strength/conditioning
- Begin UBE
- Begin closed chain stability exercises

#### PHASE V(Week 20-24)

- High resistance Rotator Cuff PRE's
- at 90 degrees abduction w/ Theraband
- Begin plyometric exercises
- Progression of standing stabilization exercises
- Progress Bicep/Tricep/Peri-Scapular strength/conditioning
- Progress UBE/closed chain stability exercises
- Add gym exercises
- Initiate sport specific training/job related tasks