# Dr. John G. Skedros Rehabilitation Protocol After Type III Rotator Cuff Repair (Deltoid-Splitting Procedure): Large to Massive Tear (>5 cm)

## I. Phase I: Protection Phase (Weeks 0—8)

- A. Weeks 0–4
  - 1. Brace or sling (as determined by physician)
  - 2. Pendulum exercises
  - 3. Passive range of motion to tolerance
    - Flexion
    - External-internal rotation (shoulder at 45° abduction)
  - 4. Elbow range of motion
  - 5. Hand-gripping exercises
  - 6. Continuous passive motion
  - 7. Submaximal isometrics for abductors, external-internal rotation, elbow flexors
  - 8. Ice and pain modalities
  - 9. Gentle active-assisted range of motion with L bar at week 2
- B. Weeks 4-8
  - 1. Discontinue brace or sling
  - 2. Active-assisted range of motion with L bar in
    - Flexion to 100
    - External-internal rotation to 40 , with shoulder at 45° abduction
  - 3. Continue pain modalities

# II. Phase II: Intermediate Phase (Weeks 8—14)

#### Goals

Achieve full range of motion (week 12) Gradually increase strength Decrease pain

- A. Weeks 8-10
  - 1. Active-assisted range-of-motion exercises with L-bar
    - Flexion to tolerance
    - External-internal rotation to tolerance with shoulder at 90° abduction
  - 2. Initiate isotonic strengthening
    - Deltoid to 90
    - External-internal rotation in side-lying
    - Supraspinatus
    - Biceps and triceps
    - Scapulae muscles
- B. Weeks 10-14
  - 1. Full range of motion desired by weeks 12-14
  - 2. Continue all exercises listed above
  - 3. Initiate neuromuscular control exercises
  - Note: If the athlete is unable to elevate the arm without the shoulder "Hiking"

(scapulothoracic substitution) before initiating isotonics, maintain the athlete on humeral head stabilization exercises.

# III. Phase III: Advanced Strengthening Phase (Weeks 15-26)

#### Goals

Maintain full, nonpainful range of motion Improve strength of shoulder complex Improve neuromuscular control Gradually return to functional activities

- A. Weeks 15–20
  - 1. Continue active-assisted range-of-motion exercise with L bar in flexion, and externalinternal rotation
  - 2. Self-capsular stretches
  - 3. Aggressive strengthening program (isotonic program)
    - Shoulder flexion
    - Shoulder abduction to 90
    - Supraspinatus strengthening
    - External-internal rotation
    - Elbow flexors and extensors
    - Scapulae muscles
  - 4. General conditioning program
- B. Weeks 21-26
  - 1. Continue all exercises listed above
  - 2. Isokinetic test (modified neutral position) for external-internal rotation at 180 / sec and 300 / sec
  - 3. Initiate interval training program for sport

### IV. Phase IV: Return-to-Activity Phase (Weeks 24-28)

#### Goals

Gradually return to sports activities Continue all strengthening exercises Continue all flexibility exercises Continue progression on interval training program

Adapted from: Wilk, Harrelson, Arrigo, and Chmielewski. Shoulder Rehabilitation. p516-517