# Postoperative Rehabilitation Following Ulnar Nerve Transposition

### Phase I. Immediate Postoperative Phase (week 0-1)

Goals: - Allow soft tissue healing of relocated nerve

- Decrease pain and inflammation
- Retard muscular atrophy

#### A. Week 1

- 1. Posterior splint at 90 deg elbow flexion with wrist free for motion (sling for comfort)
- 2. Compression dressing
- 3. Exercises such as gripping exercises, wrist ROM, shoulder isometrics

### B. Week 2

- 1. Discontinue posterior splint
- 2. Progress elbow ROM (PROM 15-to 120 deg)
- 3. Initiate elbow and wrist isometrics
- 4. Continue shoulder isometrics

### Phase II. Intermediate Phase (weeks 3-7)

Goals: - Restore full pain free range of motion

- Improve strength, power, and endurance of upper extremity musculature
- Gradually increase functional demands

#### A. Week 3

- 1. Progress elbow ROM, emphasize full extension
- 2. Initiate flexibility exercise for wrist extension/flexion, forearm supination/pronation, and elbow extension/flexion
- 3. Initiate strengthening exercises for wrist extension/flexion, forearm supination/pronation, elbow extensors/flexors, and a shoulder program

### B. Week 6

- 1. Continue all exercises listed above
- 2. Initiate light sport activities

## Phase III. Advanced Strengthening Phase (weeks 8-12)

Goals: - Increase strength, power, endurance

- Gradually initiate sporting activities

### A. Week 8

- 1. Initiate eccentric exercise program
- 2. Initiate plyometric exercise drills
- 3. Continue shoulder and elbow strengthening and flexibility exercises
- 4. Initiate interval throwing program

## Phase IV. Return to Activity Phase (weeks 12-16)

Goals: - Gradually return to sporting activities

### A. Week 12

- 1. Return to competitive throwing
- 2. Continue Thrower's Ten Exercise Program