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# Post-Operative Rehabilitation Following Ulnar Nerve Transposition

# Phase I Immediate Post-Operative Phase (week 0-1)

#### Goals:

- (1) Allow soft tissue healing of relocated nerve
- (2) Decrease pain and inflammation
- (3) Retard muscular atrophy

#### Week 1

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

#### Week 2

- 1 Discontinue posterior splint
- 2. Progress elbow ROM as tolerated
- 3. Initiate elbow and wrist isometrics
- 4. Continue shoulder isometrics.

# Phase II Intermediate Phase (week 3-7)

#### Goals:

- (1) Restore full pain free range of motion
- (2) Improve strength, power, endurance of upper extremity musculature
- (3) Gradually increase functional demands

#### Week 3-5

- 1. Progress elbow ROM, emphasize full extension
- 2. Initiate flexibility exercises for:

wrist ext/flexion

forearm supination/pronation

elbow ext/flexion

3. Initiate strengthening exercises for:

wrist ext/flexion

forearm supination/pronation

elbow ext/flexors

shoulder program (Thrower's Ten Shoulder Program)

### Week 6-7

1. Continue all exercises listed above

2. Initiate light sport activities

# Phase III Advanced Strengthening Phase (week 8-12)

# Goals:

- (1) Increase strength, power, and endurance
- (2) Gradually initiate sporting activities

#### Week 8-11

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

# Phase IV Return to Activity Phase (week 12-16)

Goals: Gradual return to sporting activities

## A. Week 12

- 1. Return to competitive throwing
- 2. Continue Throwers Ten Exercise Program