

Orthopaedic Sports Specialists, P.C.

Michael E. Joyce, M.D. and Alex G. Dukas, M.D.

84 Glastonbury Blvd., Suite 101, Glastonbury, Connecticut 06033

Voice: 860-652-8883, Fax: 860-652-8887

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

A. 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

B. Week 2

1. Remove posterior splint for exercise and bathing
2. Progress elbow ROM-(PROM-15 degrees -120 degrees)
3. Initiate elbow & 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

A. Week 3

1. Discontinue posterior splint
2. Progress elbow ROM-emphasize full extension
3. Initiate flexibility exercises for:
wrist ext/flexion
forearm supination/pronation

- 4. elbow ext/flexion
Initiate strengthening exercises for:
 wrist ext/flexion
 forearm supination/pronation
 elbow ext/flexors
 shoulder program

- B. Week 6
 - 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

- 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 (week 12-16)

Goals: Gradual return to sporting activities

- A. Week 12
 - 1. Return to competitive throwing
 - 2. Continue Throwers' Ten Exercise Program