

Postoperative Rehabilitation Following Ulnar Nerve Transposition

Phase I. Immediate Postoperative Phase (week 1-2)

- Goals: Allow soft tissue healing of relocated nerve
 - Decrease pain and inflammation
 - Retard muscular atrophy

Week 1

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

Week 2

- 1. Discontinue posterior splint
- 2. Progress elbow ROM (PROM 15 to 120 deg)
- * If PROM is greater than above continue to tolerance
- 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

Week 3

Progress elbow ROM, emphasize full extension ***Goal for Full PROM by end of week 3
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
- 4. May initiate modified Thrower's Ten Program
- 5. Emphasize elbow dynamic stabilization

Week 6

- 1. Continue all exercises listed above
- 2. Initiate light sport activities (golf, etc)
- 3. No throwing or tennis or swimming

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

Goals: Increase strength, power, endurance Gradually initiate sporting activities

Week 8

- 1. Initiate eccentric exercise program
- 2. Initiate plyometric exercise drills
- 2 hand drills progress to 1 hand drills
- 3. Initiate Throwers ten Program
- 4. Continue shoulder and elbow strengthening and flexibility exercises
- 5. Initiate interval throwing program (Phase I)
- 6. May initiate hitting program at week 8

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

Goals: Gradually return to sporting activities

Week 12

- 1. Return to competitive throwing
- 2. Continue Thrower's Ten Exercise Program
- 3. Continue all Rom & stretching program