

Postoperative Rehabilitation Following Chronic Ulnar Collateral Ligament Reconstruction Using Autogenous Graft

Phase I. Immediate Postoperative Phase (0-3 weeks)

Goals:

- Protect healing tissue
- Decrease pain/inflammation
- Retard muscular atrophy

A. Postoperative week 1

- 1. Posterior splint at 90° elbow flexion
- 2. Wrist AROM extension/flexion
- 3. Elbow compression dressing (2 to 3 days)
- Exercises such as gripping exercises, wrist ROM, shoulder isometrics (except shoulder ER), biceps isometrics
- 5. Cryotherapy

B. Postoperative week 2

- 1. Application of functional brace 300to 1000
- 2. Initiate wrist isometrics
- 3. Initiate elbow flex/ext isometrics
- 4. Continue all exercises listed above

C. Postoperative week 3

1. Advance brace 150 to 1100 (gradually increase ROM; 50 extension/100 flexion per week)

Phase II. Intermediate Phase (weeks 4-8)

Goals:

- Gradual increase in range of motion
- · Promote healing of repaired tissue
- Regain and improve muscular strength

A. Week 4

- 1. Functional brace set (100 to 1200)
- 2. Begin light resistance exercises for arm (1 lb) wrist curls, extensions pronation/supination elbow ext1flexion
- Progress shoulder program emphasize rotator cuff strengthening (avoid ER until 6 1h week)



B. Week 6

- 1. Functional brace set (00 to 1300); AROM 00-14V (without brace)
- 2. Progress elbow strengthening exercises
- 3. Initiate shoulder external rotation strengthening
- 4. Progress shoulder program

Phase III. Advanced Strengthening Phase (weeks 9-13)

Goals:

- Increase strength, power, endurance
- Maintain full elbow ROM
- Gradually initiate sporting activities

A. Week 9

- 1. Initiate eccentric elbow flexion/extension
- 2. Continue isotonic program; forearm & wrist
- 3. Continue shoulder program Throwers Ten Program
- 4. Manual resistance diagonal patterns
- 5. Initiate plyometric exercise program

B. Week 11

- 1. Continue all exercises listed above
- 2. May begin light sport activities (ie, golf, swimming)

Phase IV. Return to Activity Phase (weeks 14 through 26)

Goals:

- Continue to increase strength, power, and endurance of UE musculature
- Gradual return to sport activities

A. Week 14

- 1. Initiate interval throwing program (phase 1)
- 2. Continue strengthening program
- 3. Emphasis on elbow and wrist strengthening and flexibility exercises

B. Weeks 22 through 26

1. Return to competitive throwing