

REHABILITATION PROTOCOL
CHRONIC ULNAR COLLATERAL LIGAMENT RECONSTRUCTION USING AUTOGENOUS GRAFT
Chase D. Smith, MD

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)
 4. 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 300 to 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 ext/flexion
 3. Progress shoulder program emphasize rotator cuff strengthening (avoid ER until 6th 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 (i.e., golf, swimming)

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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