

Assistant Professor of Orthopaedics Division of Sports Medicine Tel: (646) 501-7223

Post Operative Rehabilitation Protocol Following Ulnar Collateral Ligament Reconstruction Using Autogenous Graft

| Name: | Date: |
|-------------|--|
| Diagnosis: | Date of Surgery: |
| Phase I –Iı | mmediate Post Operative Phase |
| Goals | |
| 0 | Protect healing tissue |
| 0 | Retard muscular atrophy |
| 0 | Decrease pain/inflammation |
| Week | x 1 |
| 0 | Posterior splint at 90° elbow flexion for 7 days |
| 0 | Brace: application of functional brace set at 30-100° at day 7-10 after splint removed |
| 0 | ROM: wrist AROM ext/flexion |
| 0 | Elbow compression dressing 2-3 days |
| 0 | Exercises |
| | Gripping |
| | Wrist ROM (passive only) |
| | Shoulder isometrics (no shoulder ER) |
| | Biceps isometrics |
| | Cryotherapy |
| • Week | 3 2 |
| 0 | Brace: Elbow ROM 25-100° in brace |
| | Gradually increase ROM 5° ext and 10° of flexion per week |
| 0 | Excercises |
| | Continue all exercises listed above |
| | Elbow ROM in brace |
| | Initiate elbow extension isometrics |
| • Week | 3 |
| 0 | Brace: Elbow ROM 15-110° |
| 0 | Exercises |
| - | Continue all exercises listed above |
| | Elbow ROM in brace |
| | Initiate active ROM wrist and elbow (no resistance) |
| | |
| Phase II - | -Intermediate Phase (Week 4-7) |
| Goals | |

- o Gradual increase to full ROM
- Promote healing of repaired tissue
- o Regain and improve muscular strength
- Week 4
 - o Brace: elbow ROM 0-125°
 - o Exercises
 - Begin light resistance exercises or arm (1 lbs)
 - Wrist curls, extensions, pronation, supination
 - Elbow ext/flexion
 - o Progress shoulder program to emphasize rotator cuff strengthening
 - Avoid external rotation until week 6
- Week 5



Assistant Professor of Orthopaedics Division of Sports Medicine Tel: (646) 501-7223

- ROM: elbow ROM 0-135°
- o Discontinue brace
- Continue all exercises
- Week 6
 - ROM: 0-145° without brace or full ROM
 - o Exercises
 - Progress elbow strengthening exercises
 - Initiate shoulder external rotation strengthening
- Week 7
 - o Initiate Thrower's Ten Program
 - o Progress light isotonic program

Phase III - Advanced Strengthening Program (Week 8-13)

- Goals
 - Improve strength/power/endurance
 - Maintain full elbow ROM
 - Gradual return to functional activities
- Week 8-10
 - o Exercises
 - Initiate eccentric elbow flexion/extension
 - Continue
 - Isotonic program –forearm and wrist
 - Shoulder program Thrower's Ten
 - Stretching program –especially elbow extension
- Week 11-13
 - o Exercises
 - Continue all exercises listed above
 - Initiate plyometric exercise program

Phase IV - Return to Activity (week 14-32)

- Goals
 - o Continue to increase strength, power, and endurance of upper extremity musculature
 - Gradual return to activities
- Week 14
 - Exercises: continue strengthening program
 - Emphasis on elbow and wrist strengthening and flexibility exercises
 - Maintain full elbow ROM
- Week 16
 - o Exercises
 - Initiate interval throwing program (phase I)
 - Continue all exercises
 Stretch before and after
 - Stretch before and after throwing
 - Week 22-24
 - o Exercises
 - Progress to Phase II Throwing Program (once completed Phase I)
- Week 30
 - o Exercises
 - Progress to competitive throwing



Comments:

| Frequency: | times per week | Duration: | weeks |
|------------|----------------|-----------|-------|
|------------|----------------|-----------|-------|

Signature: _____

Date: _____