

POST-OPERATIVE REHABILITATION PROTOCOL FOLLOWING ELBOW LATERAL COLLATERAL LIGAMENT RECONSTRUCTION (LCL)

Columbia University Sports Medicine and Rehabilitation

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PRECAUTIONS: No elbow ROM for 3 weeks Posterior splint at 90 degrees flexion with full pronation for 3 weeks Slow progression with supination, elbow extension & elbow flexion to protect LCL No weight bearing (CKC) exercises for 8-12 weeks No excessive flexion for 8 weeks

I. IMMEDIATE POST-OPERATIVE PHASE (0-3 WEEKS)

<u>Goals</u>: Protect healing tissue Decrease pain/inflammation Retard muscular atrophy Protect graft site – allow healing

A. <u>Post-Operative WEEK 1</u>

Brace: Posterior splint at 90 degrees elbow flexion and full wrist pronation to control wrist rotation (3-4wks)

Range of Motion: Begin gradual wrist ROM No ELBOW ROM Shoulder ROM

Elbow postoperative compression dressing (5-7 days) Wrist (graft site) compression dressing 7-10 days as needed

Exercises: Gripping exercises Wrist ROM Shoulder isometrics (No Shoulder ER or IR)

Cryotherapy: To elbow joint and to graft site at wrist

Post-Operative WEEK 2-3

Exercises: Continue all exercises listed above Initiate shoulder ROM **NO ELBOW ROM**

Cryotherapy: Continue ice to elbow and graft site

C. <u>Post-Operative WEEK 3:</u>

Brace: Remain in immobilizer

Exercises: Continue all exercises listed above Initiate active ROM shoulder; -Full can -Lateral raises -ER/IR tubing

* no supination 3-6 wks

Initiate light scapular strengthening exercises May incorporate bicycle for lower extremity strength & endurance

II. INTERMEDIATE PHASE (WEEK 4-7)

<u>Goals</u>: Gradual increase to full ROM Promote healing of repaired tissue Regain and improve muscular strength Restore full function of graft site

A. WEEK 4

Brace:	Elbow Hinged ROM Brace 30- 100 (gradual increase elbow flexion)
Exercises:	Begin PROM with neutral or in pronation Begin light resistance exercises for arm (1 lb) - Wrist curls, extensions, pronation, supination - Elbow extension/flexion Progress shoulder program emphasize rotator cuff and scapular strengthening Initiate shoulder strengthening with light dumbbells

B. <u>WEEK 5</u>

ROM: Elbow ROM 30-125 degrees Remain in ROM Brace

Continue all Exercises: Progress all shoulder and UE exercises (progress weight 1 lb.)

WEEK 6

AROM & PROM in Brace: 30-135 degrees

Exercises: Initiate Thrower's Ten Program Progress elbow strengthening exercises Initiate shoulder external rotation strengthening Progress shoulder program

WEEK 7

Brace: Discontinue Brace at end of Week 6 Progress to full ROM Progress Thrower's Ten Program (progress weights)

III. ADVANCED STRENGTHENING PHASE (WEEK 8)

<u>Goals</u>: Increase strength, power, endurance Maintain full elbow ROM Gradually initiate sporting activities

WEEK 8

Exercises: Initiate eccentric elbow flexion/extension Continue isotonic program: forearm & wrist Continue shoulder program – Fundamental shoulder/Thrower's Ten Program Initiate 2-hand plyometric drills Initiate 1-hand plyometric drills WEEK 10-12 -Advanced Throwers 10 program Initiate Interval Sport Program WEEK 14-16 (physician discretion) Return to competition WEEK 20-24 (physician discretion)

Revised AJY/KW/CSA/JRA 2012