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ULNAR MEDIAL COLLATERAL LIGAMENT RECONSTRUCTION

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

Goals: Protect Healing Tissue

Decrease Pain/Inflammation Retard Muscular Atrophy

Establish Limited Range-of-Motion

A. Post-Operative Week 1

Brace - Posterior splint at 90° elbow flexion

Range-of-Motion - Wrist AROM extension/flexion

Elbow Compression Dressing (2-3 days)

Exercises: * Gripping exercises

* Wrist AROM – extension/flexion, sup/pronation, radial/ulnar deviation

* Shoulder Isometrics (**No shoulder IR/ER for the first 4 weeks)

Flexion
Extension
Abduction
Adduction
* Biceps isometrics

Modalities: Cryotherapy and electrical stimulation for pain/swelling

B. Post-Operative Week 2

Brace - Application of functional brace set at 30-100°

Exercises: * Initiate wrist isometrics

* Initiate elbow extension isometrics *Continue all exercises listed above

*Scapular isometrics

C. Post-Operative Week 3

Brace - Advance brace 15-110°

(Gradually increase range-of-motion - 5° extension/10° flexion per week)

Exercises: * Initiate light isotonics (no weight, use the weight of the arm)

Shoulder Abduction Shoulder Elevation Scapular Strengthening

Biceps/Triceps

Wrist Flexion/Extension Pronation/Supination

* Continue range-of-motion and gripping exercises

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

Brace - Functional brace set 10-120°

Exercises: * Begin light resistance exercises for arm (1 lb.)

- Wrist curls, extensions, pronation, supination

- Elbow extension/flexion

* Begin ER/IR submaximal isometrics with progression to light isotonics

B. Week 6

Brace - Functional brace set (0-130°); AROM (1-145°) without brace

Discontinue brace at end of week 6

Exercises:

* Progress Wrist & Elbow strengthening exercises

* Initiate tubing ER/IR at 0° abduction

* Progress shoulder program emphasize rotator cuff strengthening

(Emphasis on external rotation, sidelying position)

* Initiate Throwers' Ten Exercise Program

* Progress Shoulder Program

C. Week 8

Exercises: * Continue Stretching Program for Elbow & Wrist Range-of-Motion

* Gradual Progress of Strengthening Program

III. ADVANCED STRENGTHENING PHASE (Weeks 9 -13)

Goals: Increase Strength, Power, Endurance

Maintain Full Elbow ROM

Gradually Initiate Sporting Activities

A. Week 9

Exercises: * Initiate Eccentric Elbow Flexion/Extension

* Initiate PREs Triceps Strengthening

* Continue Isotonic Program; Forearm & Wrist

* Continue Shoulder Program - Throwers Ten Program

* Manual Resistance Diagonal Patterns

* Initiate Plyometric Exercise Program (2 Hands Drill)

(Emphasis on Scapula, Rotator Cuff, Biceps & Wrist Strengthening)

B. Week 11

Exercises: * Continue all exercises listed above

* May begin light sport activities (i.e., golf, swimming)

* Initiate plyometric exercise program (1 Hand Drills)

IV. RETURN TO ACTIVITY PHASE (Weeks 14-26)

Goals: Continue to increase strength, power and endurance of upper extremity musculature

Gradual return to sport activities

A. Week 14

Exercises: * Initiate Interval Throwing Program (Phase 1)* Week 16

* Continue Strengthening Program

* Emphasis on Elbow & Wrist Strengthening and Flexibility Exercises

B. Weeks 22-26

Exercises: * Progress to Interval Throwing Program (Phase II)*

* Upon completion of Phase II of the Interval Throwing Program, progress to

Competitive Throwing Program