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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

Cryotherapy and electrical stimulation for pain/swelling

- Extension
- Abduction
- Adduction
- * Biceps isometrics

Modalities:

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 - Function	nal 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 	
	nal brace set (0-130°); AROM (1-145°) without brace ntinue 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. ADVA	NCED 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	 * Progress to Interval Throwing Program (Phase II)* * Upon completion of Phase II of the Interval Throwing Program, progress to
Exercises:	Competitive Throwing Program