





ULNAR COLLATERAL LIGAMENT (UCL) RECONSTRUCTION

PHYSICAL THERAPY PROTOCOL

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Patient Name:	<u>Date of Surgery</u> :		
Evaluate and Treat	Provide patient with home program		
Frequency:x/w	k xweeks		
	on***. Gradual progression of motion while protection hould be worn during sleep and in public places. Avoinths post-op.	_	

- -Weeks 0-2: Goals = wound healing, pain control, minimize atrophy; formal therapy to start ~2 weeks postop.
 - Splint/Brace: Immobilization in plaster splint/sling with wrist free \rightarrow converted to hinged elbow brace (allowing ROM 45 to 90 deg) at 1 week visit. Brace should be worn at all times.

Date of Surgery:

ROM: Patients encouraged to perform flexion/extension of wrist without excessive forearm pronation. Once brace is applied, patients may begin AROM as tolerated 45-90 degrees with brace on. A+PROM knee as tolerated (graft harvest site).





 Strengthening: Shoulder/biceps isometrics. Avoid valgus loading of elbow.

-Week 2-4:

- **Brace:** Hinged elbow brace should be worn at night and in public places; may be removed for therapy and hygiene. ROM settings should be adjusted to allow whatever maximum amount of extension is achieved during therapy, with flexion limited to 90 degrees.
- **ROM:** Advance AROM elbow, progressing as tolerated. Avoid aggressive passive stretching in flexion unless patient is not progressing. Avoid aggressive passive stretching in extension until after 4 weeks. Goal: 0-120 by 4 weeks postop.
- **Strengthening:** Cuff and periscapular strengthening. *Avoid valgus loading of elbow.* May begin knee strengthening as tolerated.

-Weeks 4-6:

- **Brace:** Hinged elbow brace should be worn at night only, and gradually discontinued by 6 weeks. ROM settings should be 0-90 degrees.
- **ROM:** Advance AROM as tolerated. If full extension is not achieved by 4 weeks, add soft-tissue mobilization with low-load, long-duration passive stretches. If 120 degrees of flexion not achieved by 4 weeks, add low-load, long-duration passive stretching in flexion. Goal: 0-140 by 6 weeks postop.
- **Strengthening:** Grip strengthening, cuff and periscapular strengthening. *Avoid valgus loading of elbow*.

__ Phase II (6-16 wks): Advance strengthening.

- **ROM**: Advance A+PROM to full, if not achieved. Aggressive stretching at end-ranges to advance to full.
- **Strengthening**: Begin gentle, resisted cuff/periscapular strengthening and add in elbow and wrist flexion/extension. May transition into closed-chain exercises and incorporate overall body conditioning (if not already begun): running, elliptical, stationary bike. *Avoid valgus loading of the elbow until after 3 months*.

__ Phase III (4-12 months): Begin more sport-focused conditioning. Graduated return to throwing as detailed below. Flare-ups of pain are common (most commonly secondary to throwing too hard), and should be addressed with several days of rest, followed by resumption of therapy once pain has resolved.

- Month 4: PT one time every 3-4 wks. Start throwing at 45 ft for 10 min (3-4 times per week with rest day between), throwing just hard enough to reach the target. There should be a slight arc on the ball. Warm-up is included in the allotted time. Emphasis on proper follow-through at ball release and hitting specific targets when throwing. Hitting can be started for 10-15 minutes off the tee, gradually progressing in intensity.
- **Month 5**: PT one time every 3-4 wks. Increase throwing to 60 ft for 10-15 min (3x/week); Start hitting soft-toss for 10-15 min (3x/week).
- **Month 6**: PT one time every 3-4 wks. Advance to throwing from 120 ft for 15 min (3x/week) as follows:
 - o 1st week: throwing at 60 ft for 15 min





- 2nd and 3rd weeks: throwing at 90 ft for 15 min; once this is achieved, consider videotape of throwing mechanics.

 o **4**th **week**: throwing at 120 ft for 15 min
- Months 7-8: Sport-specific return to throwing programs (see OrthoCarolina Pitcher and Fielder return to throwing program).
- Months 9-12: Gradual release to competition if successful completion of throwing program.

Other: Modalities Heat before/after	Electrical Stimulation Ice before/after exercise	Ultrasound
	rtify that I have examined this patient wouldwould not bend	_ ,
	Date:	
		

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