UCL Reconstruction

(autogenous palmaris longus graft)

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Altoona, WI 54720 Chippewa Falls, WI 54729 Patient_____ DOS_____

| | POW 1 | POW 2 | POW 3 | POW 4 | POW 5 | POW 6 | POW 7 |
|-------------------|-------------------------|-------------------|-------------------|----------------------|-------------------|-------------------|-------------------|
| Brace | Locked at 90° | 30°-100° | 15°-110° | 10°-120° | 5°-130° | 0°-145° | Wean per MD |
| Exercises | Wrist flex/ext | Continue previous | Continue previous | Isotonic wrist Flex, | Progress Previous | Initiate Throwers | Progress Throwers |
| | | exercises | exercises | Ext, Pronation, | exercises by #1 | Ten Program | Ten Program |
| *Protect tissue | Gripping | | | Supination | | | |
| healing | | Elbow AROM in | Elbow AROM in | - | | Progress previous | Progress previous |
| | Pronation/Supination | brace (30°-100°) | brace (15°-110°) | Prone Rows, Ext | | exercises | exercises with |
| *Decrease | | | | | | | increased weight |
| pain/inflammation | Bicep Isometrics | Isometric elbow | Wrist flexion | Isotonic elbow | | Sidelying ER | |
| | _ | extension | stretching | Flex, Ext | | | Initiate D1 & D2 |
| | Shoulder Isometrics | | | | | Rhythmic | PNF |
| | (Flex, Ext, ER, Abd, | Wrist Isometrics | Prone to standing | #1 for resistance | | Stabilization | |
| | Add) | (Flex, Ext, RD, | shoulder Flex, | exercises | | | |
| | | UD) | Scap, Abd | | | *Initiate ER | |
| | Compression to | | | | | strengthening | |
| | elbow & graft site | Light scar | IR tubing | | | | |
| | - | mobilization | _ | | | ER tubing | |
| | Scapular Retraction | | | | | | |
| | Cryotherapy | | | | | | |

| | POW 8-9 | POW 10-11 | POW 12-13 | POW 14-15 | POW 16-21 | POW 22-30 | POW 30+ |
|-----------|---------------------|----------------------|--------------------|-------------------|--------------------|----------------------|--------------------|
| Brace | Discharge brace | · | | | | | |
| Exercises | Eccentric elbow | Progress | Continue previous | Advance | Initiate interval | Progress to phase II | Gradually progress |
| | flex/ext | plyometrics to | exercises | strengthening | throwing program | throwing | to competitive |
| | | TWO hand drills | | | phase I (long toss | | throwing & sports |
| | Progress resistance | away from the | Initiate isotonic | Initiate ONE hand | program) | | |
| | & Throwers Ten | body: | machines: | plyometric | | | |
| | Program | | | throwing | Continue Throwers | | |
| | - | -Side to side throws | -Bench press | - | Ten program | | |
| | TWO hand chest | | (seated) | Initiate ONE hand | | | |
| | pass close to body | -Soccer throws | | wall dribble | | | |
| | | | -Lat pull down | | | | |
| | TWO hand side | -Side throws | | Initiate ONE hand | | | |
| | throw close to body | | Initiate golf, | baseball throws | | | |
| | | | swimming, interval | into wall | | | |
| | | | hitting program | | | | |

Any Questions? Please contact: Northwoods Therapy Associates/Altoona, WI (715) 839-9266/ Chippewa Falls, WI (715) 723-5060 **Revised June 2020

| Interval Throwing Program for Baseball Players: Phase I | | | | | | | | |
|---|---|---------------------------------------|----------------------------------|--|--|--|--|--|
| 45'Phase | 60' Phase | 90' Phase | 120' Phase | | | | | |
| Step 1: A) Warm-up Throwin | g Step 3: A) Warm-up Throwing | Step 5: A) Warm-up Throwing | Step 7: A) Warm-up Throwing | | | | | |
| B) 45' (25 Throws) | B) 60' (25 Throws) | B) 90' (25 Throws) | B) 120' (25 Throws) | | | | | |
| C) Rest 5-10 min. | C) Rest 5-10 min. | C) Rest 5-10 min. | C) Rest 5-10 min. | | | | | |
| D) Warm-up Throwi | ng D) Warm-up Throwing | D) Warm-up Throwing | D) Warm-up Throwing | | | | | |
| E) 45' (25 Throws) | E) 60' (25 Throws) | E) 90' (25 Throws) | E) 120' (25 Throws) | | | | | |
| Step 2: A) Warm-up Throwin | g Step 4: A) Warm-up Throwing | Step 6: A) Warm-up Throwing | Step 8: A) Warm-up Throwing | | | | | |
| B) 45' (25 Throws) | B) 60' (25 Throws) | B) 90' (25 Throws) | B) 120' (25 Throws) | | | | | |
| C) Rest 5-10 min. | C) Rest 5-10 min. | C) Rest 5-10 min. | C) Rest 5-10 min. | | | | | |
| D) Warm-up Throwi | D) Warm-up Throwing | D) Warm-up Throwing | D) Warm-up Throwing | | | | | |
| E) 45' (25 Throws) | E) 60' (25 Throws) | E) 90' (25 Throws) | E) 120' (25 Throws) | | | | | |
| F) Rest 5-10 min. | F) Rest 5-10 min. | F) Rest 5-10 min. | F) Rest 5-10 min. | | | | | |
| G) Warm-up Throwin | g G) Warm-up Throwing | G) Warm-up Throwing | G) Warm-up Throwing | | | | | |
| H) 45' (25 Throws) | H) 60' (25 Throws) | H) 90' (25 Throws) | H) 120' (25 Throws) | | | | | |
| , , , , | , , , , | , , , , | | | | | | |
| 150' Phase | 180' 1 | Phase | All throws should be on an arc | Conversions: | | | | |
| Step 9: A) Warm-up Throw | | Step 13: A) Warm-up Throwing | With a crop-hop | | | | | |
| B) 150' (25 Throws | | B) 180' (25 Throws) | | 45 feet = 13.7 meters | | | | |
| C) Rest 5-10 min. | C) Rest 5-10 min. | C) Rest 5-10 min. | Warm-up throws consists of | CO C (10.2 (| | | | |
| D) Warm-up Throw | | · · · · · · · · · · · · · · · · · · · | - | 60 feet = 18.3 meters | | | | |
| E) 150' (25 Throws | | E) 180' (25 Throws) | 30 feet | 90 feet $= 27.4$ meters | | | | |
| Step 10: A) Warm-up Throw | | F) Rest 5-10 min. | | 50 reet – 27.1 meters | | | | |
| B) 150' (25 Throws | | , | Throwing Program should be | 120 feet = 36.6 meters | | | | |
| C) Rest 5-10 min. | C) Rest 5-10 min. | H) 180' (20 Throws) | performed every other day. 3 | | | | | |
| D) Warm-up Throw | | , , , , , , , , , , , , , , , , , , , | times per week unless | 150 feet = 45.7 meters | | | | |
| E) 150' (25 Throws | | J) Warm-up Throwing | - | 180 feet = 54.8 meters | | | | |
| F) Rest 5-10 min. | F) Rest 5-10 min. | K) 15 Throws progress | | 100 1001 - 34.0 100000000000000000000000000000000000 | | | | |
| G) Warm-up Throw | | | specialist | | | | | |
| H) 150' (25 Throws | | Step 14: Return to respective | | | | | | |
|) | , | Position or progress | Perform each step times | | | | | |
| | | Step 14 below | before progressing to next step. | | | | | |
| | | I I I I I I I I I I I I I I I I I I I | | | | | | |
| | Flat Cround Throwing | for Deschall Ditchorg | | | | | | |
| Stop 14: A) Warm up Throw | Flat Ground Throwing | | Throwing | | | | | |
| Step 14: A) Warm-up Throw B) Throw 60 ft. (10 | • | Step 15: A) Warm-up | | | | | | |
| C) Throw 90 ft. (10 | , | B) Throw 60 C) Throw 90 | | | | | | |
| D) Throw 120 ft. (10 | · | D) Throw 12 | | | | | | |
| , | | <i>,</i> | | | | | | |
| | ground) using pitching | E) Throw 60 t | | | | | | |
| mechanics (20-3 | J INFOWS) | (20-30 thr | | | | | | |
| D | | F) Throw | | | | | | |
| Progress | o Phase II-Throwing Off the Mound | | | | | | | |
| | | (20 thr | J | | | | | |

Interval Throwing Program for Baseball Players: Phase I

STAGE ONE: FASTBALLS ONLY

Step 1: Interval Throwing 15 Throws off mound 50%* Step 2: Interval Throwing 30 Throws off mound 50% **Step 3:** Interval Throwing 45 Throws off mound 50% Step 4: Interval Throwing 60 Throws off mound 50% Step 5: Interval Throwing 70 Throws off mound 50% **Step 6:** 45 Throws off mound 50% 30 Throws off mound 75% Step 7: 30 Throws off mound 50% 45 Throws off mound 75% Step 8: 10 Throws off mound 50% 65 Throws off mound 75%

STAGE TWO: FASTBALLS ONLY

Step 9: 60 Throws off mound 75% 15 Throws in Batting Practice
Step 10: 50-60 Throws off mound 75% 30 Throws in Batting Practice
Step 11: 45-50 Throws off mound 75% 45 Throws in Batting Practice

STAGE THREE

Step 12: 30 Throws off mound 75% warm-up 15 Throws off mound 50% BEGIN BREAKING BALLS 45-60 Throws in Batting Practice (fastball only)
Step 13: 30 Throws off mound 75% 30 Breaking balls 75% 30 Throws in Batting Practice
Step 14: 30 Throws off mound 75% 60-90 Throws in batting Practice (Gradually increase breaking balls)
Step 15: SIMULATED GAME: PROGRESSING BY 15 THROWS PER WORKOUT (Pitch Count)

*Percentage effort

Use Interval Throwing 120ft (36.6 m) Phase as warm-up

ALL THROWING OFF THE MOUND SHOULD BE DONE IN THE PRESENCE OF YOUR PITCHING COACH OR SPORT BIOMECHANIST TO STREE PROPER THROWING MECHANICS

(USE SPEED GUN TO AID IN EFFORT CONTROL)