

100 Hospital Lane, Suite 300 Danville, IN 46122 317,718,4676

Bankart REPAIR

1. Timelines:

- a. Follow Up with Surgeon:
 - i. **2 weeks** post-op via a telemedicine visit. Please send updated PT notes to surgeon on last visit before telemedicine visit. Pt will be submitting on their own a picture of the incision via their EMR portal day before surgery. Fax therapy notes to (317) 718-2676
 - i. **6 weeks** in person with the surgeon. Please send therapy notes before follow-up appt.
- b. **Suture Removal**: Therapist to remove portal sutures at days 10-14.
 - i. Apply steri-strips over portal after removing sutures.

2. Defined

a. Reattachment and repair of the anterior labrum and capsule to the glenoid

3. Goals

- a. Protect healing tissue
- b. Control post-operative pain and swelling
- c. Improve post-operative range of motion
- d. Improve functional strength, stability, and neuromuscular control
- e. Prevent recurrent anterior dislocations of the humeral head

4. Rehabilitation Principles

- a. Be aware of repaired and healing tissue, avoid early pressure and stress on the anterior capsule therefore early phase limits ER of the GH joint.
- b. Healing tissue should never be overstressed but appropriate levels of stress are beneficial
 - i. Inflammatory phase days 1-3
 - ii. Tissue repair with proliferation phase days 3-20
 - iii. Scar tissue most responsive to remodeling 21-60 days but occurs from 1 to 8 weeks
 - iv. Final maturation taking as long as 360 days
- c. Tissue reactivity of the shoulder and tissue healing will dictate the rehabilitation process. Reactivity is determined by the clinical exam
 - i. Level I Reactivity
 - 1. Resting pain, pain before end range.
 - 2. Aggressive stretching is contraindicated.
 - 3. Grade I-II mobilization for neurophysiological effect
 - ii. Level II Reactivity
 - 1. Pain onset occurs with end range resistance
 - 2. Grade III and IV mobilization appropriate per patient tolerance
 - iii. Level III Reactivity
 - 1. Engagement of capsular end feels with little or no pain.
 - 2. Pain occurs after resistance.
 - 3. Grade III and IV mobilization and sustained stretching is appropriate
- d. Eliminate inflammation as the cause of pain and neuromuscular inhibition



ORTHOPEDICS

HENDRICKS ORTHOPEDICS & SPORTS MEDICINE

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- e. Ensure return of appropriate joint arthrokinematics
- f. Apply techniques in loose packed unidirectional and progress to close packed and multidirectional based on tissue healing and patient response
- g. Facilitate performance of complex skills with proprioceptive and kinesthetic techniques: Low to high, sagittal to frontal, bilateral to unilateral, stable to unstable, slow to fast, fixed to unfixed surface
- h. Encourage life-long activity modification to reduce risk factors associated with reinjury. Work within the "safe zone" for upper extremity activity.
- i. Encourage integration of core strengthening with therapeutic exercises
- j. Factors that affect the rehab process
 - i. Surgical approach
 - ii. Tissue quality
 - iii. Presence of concomitant pathology
 - iv. Age of patient
 - v. Co-morbidities
 - vi. Pre and intra-operative range of motion
 - vii. Pain and sensitivity levels
 - viii. Cognitive abilities
- k. Re-establish voluntary and pain free control of the rotator cuff to prevent rotator cuff shutdown and decrease humeral head migration with AROM. Exercising through the shrug sign may damage the repair. Progress through the following:
 - i. Isometrics
 - ii. Active assisted elevation with eccentric lowering and isometric holds
 - iii. Isotonics <90 degrees ("downstairs" or gravity eliminated)
 - iv. Isotonics >90 degrees ("upstairs")
 - v. Rhythmic stabilization
 - 1. Flexion (prone and supine)
 - 2. Internal/External rotation
- I. Maintain scapular stabilization and mobility; proximal stability for distal mobility
- 5. Post op functional guidelines
 - a. Dependent on functional range, strength, and neuromuscular control
 - b. Drive
 - i. Refer patient to physician
 - ii. Refer patient to drug precautions
 - iii. Refer patient to auto insurance coverage
 - iv. No research to support recommendations for return to driving
 - c. Work
 - i. Sedentary up to 14 days
 - ii. Medium to high physical demand level will be job specific
 - 1. Dependent on functional demands of the job
 - 2. Physician input is required to make final decision
 - d. Sport
 - i. Golf no earlier than 12 weeks
 - 1. Encourage backward golfing
 - a. Beginning putting at 4 weeks



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- b. Utilize the driving range for all practice
- c. Begin with short irons and partial swings progressing to long irons and full swing
- d. Progress to drivers and hybrid by 12 weeks
- ii. Swimming
 - 1. Kick board with arms at side at 6 weeks
 - 2. Freestyle stroke no earlier than 14 weeks
- iii. Weight lifting no earlier than 12 weeks
 - 1. Reinforce safe zone principles
 - 2. Emphasize scapular stabilizers
 - 3. Begin with individual muscles, single joint movement, and light weights progress to large muscle groups, multi-joint movements, and heavy weights
 - 4. Incline bench, bench press, and military press begin at 10-15 weeks.
- iv. Throwing
 - 1. Emphasize proper biomechanics and proprioception with a functional progression through phases of throwing no earlier than week 6
 - 2. Initiate ER at 90° abduction at week 7-9
 - 3. Initiate interval throwing program no earlier than 24 weeks
 - 4. Throwing from the mound no earlier than 24-36 weeks
- v. Contact sports
 - 1. No earlier than 24 weeks
- 6. Post op equipment guidelines
 - a. Sling with abduction pillow at all times when not bathing or performing exercises
 - i. Begin weaning out of sling at 4-6 weeks per MD orders
 - b. Polar Care as needed for pain and inflammation
- 7. Rehabilitation for Bankart repair

Phase I -Immediate Motion Phase (Weeks 0 -6)

Weeks0-2:

- Sling for 4 weeks
- May take off swathe when good arm control
- Elbow/hand ROM and hand gripping exercises
 - o AAROM: Flexion to 90° ER to 15° in scapular plane
 - o IR to 45° in scapular plane Pendulurn/Rope and pulley exercises
 - o Isometrics: Abduction ER/IR Biceps (not for 6 weeks I fSLAP lesion)
- Pain control modalities

Weeks 3 -4:

- AAROM: Flexion to 135°
- ER to 45° at 45° abduction IR to 60° at 45° abduction
- Strengthening:



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- Scapular strengthening exercises Rhomboids Middle/Lower Trapezius Serratus anterior
- o Light T-band ER/IR with arm at side

Weeks5-6:

- AAROM: Flexion to 160° ER/IR to tolerance in scapular plane ER/IR to 60° at 90° abduction
- Strengthening:
 - Initiate light isotonics (start with weight of arm and progress 1#/wk if good form) Supraspinatus ER/IR Prone horizontal abduction Biceps (not if SLAP lesion)
 - Manual resisted diagonal patterns
 - Initiate light rhythmic stabilization/proprioception drills
 - Initiate UBE

Phase II -Intermediate Phase (Weeks 7 -15)

Weeks 7 -9:

- AAROM (progress to full ROM): Flexion to 180° ER to 90° at 90° abduction
 - IR to 85° at 90° abduction Begin gentle self-capsular stretches
 - Strengthening: Progress weight/reps of RTC and scapular strengthening program
 - Progress proprioception drills to single ann and closed chain with ball against wall

Weeks 10 -15:

- Continue ROM/flexibility exercises
- Continue self-capsular stretches
- Strengthening: Continue RTC/scapular strengthening program Initiate isokinetic strengthening in neutral (high speed/high reps) Initiate general shoulder strengthening with shoulder precautions at 12 weeks
 - Bench press (narrow grip, arms front of plane of body) Pull downs (narrow grip, in front of body) Shoulder press (dumbbells, in front of body, elbows close to side) Push-ups (narrow width, keep shoulders above elbow height)
- Initiate plyometric program (2 handed ~ I handed)
- Isokinetic ER/IR test in modified neutral (90 & 1 in 80°/sec) at 12 weeks

Phase III -Advanced Phase (Weeks 16 -23)

• Continue all flexibility exercises: ER/IR stretch Flexion stretch Self-capsular stretches



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- Continue RTC, scapular qand general shoulder strengthening with precautions
- Initiate interval sport program
 - Begin throwing program Begin hitting (progress from tee ~ soft toss ~ live hitting over 3 -4 weeks)

Phase IV -Return to Activity Phase (Weeks 24-36)

- Continue flexibility program
- Continue strengthening program
- Progress interval sport program Progress from long toss to level ground pitching to off the mound
- Testing for throwers: Isokinetic test for Abd/Add and ER/IR at 90° abd at 60, 180 and 300°/sec

Criteria for return to play:

- Physician approval
- Satisfactory ROM
- Satisfactory strength test
- Satisfactory clinical exam
- Satisfactory completion of interval sport program