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# **OPEN BANKART REPAIR PROTOCOL**

This rehabilitation protocol has been developed for the patient following an open Bankart surgical procedure. The open Bankart repair progresses more aggressively than the arthroscopic procedure due to fixation methods. The protocol is divided into phases. Each phase is adaptable based on the individual and special circumstances. Immediately post-operatively, exercises must be modified so as not to place unnecessary stress on the anterior joint capsule of the shoulder.

Early passive range of motion is highly beneficial to enhance circulation within the joint to promote healing. The **overall goals** of the surgical procedure and rehabilitation are to:

- Control pain and inflammation
- Regain normal upper extremity strength and endurance
- Regain normal shoulder range of motion
- Achieve the level of function based on the orthopedic and patient goals

The physical therapy should be initiated within one week following surgery. The supervised rehabilitation program is to be supplemented by a home fitness program where the patient performs the given exercises at home or at a gym facility.

- Important post-operative signs to monitor include:
- Swelling of the shoulder and surrounding soft tissue
- · Abnormal pain response, hypersensitive-an increase in night pain
- Severe range of motion limitations
- Weakness in the upper extremity musculature

**Return to activity** requires both time and clinical evaluation. To most safely and efficiently return to normal or high level functional activity, the patient requires adequate strength, flexibility, and endurance. Functional evaluation including strength and range of motion testing is one method of evaluating a patient's readiness to return to activity. Return to intense activities following an open Bankart repair requires both a strenuous strengthening and range of motion program along with a period of time to allow for tissue healing. Symptoms such as pain, swelling, or instability should be closely monitored by the patient.

### PHASE ONE: Weeks 1-3 EXERCISE GOAL

RANGE OF MOTION Gradual Increase Passive and AAROM Flexion/Elevation 0-120° wk 3 Passive and AAROM-scapular plane External rotation 0-30° wk 3 Internal rotation as tolerated Pendulum exercises Rope/Pulley (flex, scaption, abd) Wand exercises-all planes within limitations Posterior capsule stretch Manual stretching and Grade I-II joint mobs STRENGTH Initiate submaximal isometrics-PAIN FREE BRACE Brace to 3 weeks or as noted by Dr. Stewart Brace removed for exercises above



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## PHASE ONE: Weeks 1-3 (cont'd) EXERCISE GOAL

MODALITIES: E-stim as needed Ice 15-20 minutes GOALS OF PHASE ONE:

- Promote healing of tissue
- Control pain and inflammation
- Gradual increase in ROM
- Independent in HEP
- Initiate muscle contraction

#### PHASE TWO: Weeks 3-6

RANGE OF MOTION: Gradual Increase Passive and AAROM Flexion/Elevation 0-140° wk 4 0-160° wk 6 Passive and AAROM-scapular plane External rotation 0-75° wk 6 Internal rotation Full ROM wk 6 Pendulum exercises Posterior capsule stretch Rope/Pulley (flex, scaption, abd) Wand exercises-all planes within limitations Manual stretching and Grade II-III joint mobs STRENGTH Continue isometric activities as in Phase 1 Initiate supine rhythmic stabilization at 90° flexion Initiate UBE for endurance Initiate plyometric chest pass Initiate IR/ER at neutral with tubing Initiate flexion, scaption, empty can Prone horizontal abduction (100°,90°), extension Push-up progression Initiate sidelying ER, triceps, biceps Initiate scapular stabilizer strengthening Concentrate on eccentric activities BRACE Discharge brace end of week 3 MODALITIES Ice 15-20 minutes **GOALS OF PHASE:** · Control pain and inflammation

- Enhance upper extremity strength
- Gradual increase in ROM



# **OPEN BANKHART REPAIR PROTOCOL**

### PHASE THREE: Weeks 6-12

RANGE OF MOTION Continue all ROM activities from previous 8-10 wks phases Posterior capsule stretch Towel stretch Manual stretching and Grade III-IV joint mobs STRENGTH Continue all strengthening from previous phases, increasing resistance and repetitions Initiate overhead plyotoss at weeks 10-12 Progress with ER at 90° abduction with tubing UBE for strength and endurance Progress rhythmic stabilization activities to include standing PNF patterns with tubing Initiate isokinetic IR/ER at neutral at wk 10-12 MODALITIES Ice 15-20 minutes GOALS OF PHASE THREE:

- Minimize pain and swelling
- Reach full ROM
- Improve upper extremity strength and endurance
- Enhance neuromuscular control
- Normalize arthrokinematics

### PHASE FOUR: Weeks 12-24

Continue with all ROM activities from previous phases Posterior capsule stretching Towel stretching Grade III-IV joint mobs as needed for full ROM STRENGTH Progress strengthening program with increase in resistance and high speed repetition Progress with eccentric strengthening of posterior cuff and scapular musculature Initiate single arm plyotoss Progress rhythmic stabilization activities to include standing PNF patterns with tubing UBE for strength and endurance Initiate military press, bench press, and lat pulldowns Initiate sport specific drills and functional activities Initiate interval throwing program week 16 Initiate light plyometric program week 12-16 Progress isokinetics to 90° of abduction at high speeds **MODALITIES** Ice 15-20 minutes GOALS OF PHASE FOUR: Full ROM • Maximize upper extremity strength and endurance •

- Maximize neuromuscular control
- Initiate sports specific training/functional training