Rehab Practice Guidelines for:
Bankart Repair

Primary surgery: Repair of Bankart Lesion, which is a detachment of AIGHL/capsulolabral complex from the anterior glenoid neck, usually caused by traumatic anterior dislocation

Expected # of visits: 11-29

<table>
<thead>
<tr>
<th>Precautions and Notes</th>
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<tr>
<td><strong>Precautions</strong></td>
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<tr>
<td>▪ Primary repair - <strong>Avoid “High 5 / Low 5” positions</strong></td>
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<td>▪ If Open repair(^1): <strong>No active IR</strong> for 4 weeks. <strong>No IR strengthening</strong> for 6-8 weeks.</td>
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<td>▪ If coupled with a SLAP repair, follow Open Bankart repair guidelines</td>
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<th><strong>Notes</strong></th>
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<tr>
<td>▪ Patients will only be seen before 4 weeks if they have range of motion limitations (IR, HOR ADD).</td>
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<td>▪ Open repair(^1)</td>
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<td>▪ Compromises the subscapularis. Be wary of subscapularis stretching or contraction with these procedures (especially if subscapularis is cut, not split).</td>
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<td>▪ Associated with slower recovery of strength, especially forward flexion, increased stiffness, and increased post-op pain(^1)</td>
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### Bankart Repair Rehab Protocol

#### Timeline

<table>
<thead>
<tr>
<th>Timeline 3,4</th>
<th>Treatment</th>
<th>Milestones 1,2</th>
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<tr>
<td><strong>Week 1</strong></td>
<td><img src="#" alt="Week 1 Details" /></td>
<td><img src="#" alt="Week 1 Details" /></td>
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</table>
| Dates: ______ to ______ | - Ice for pain and inflammation control  
- Remove Sling TID for Pendulum exercises (Codman’s) 6 | - Sleep comfortably through the night wearing sling |
| ![Week 1 Details](#) | ![Week 1 Details](#) | ![Week 1 Details](#) |
| **Weeks 2-4** | ![Weeks 2-4 Details](#) | ![Weeks 2-4 Details](#) |
| Dates: ______ to ______ | - Modalities for pain and inflammation control as needed  
- Scar Mobilization when incisions healed  
- Joint Mobilization  
  - If hypomobile - grade III/IV mobilizations for inferior glide only (no grade III/IV mobs for ant glide, posterior glide or distraction)  
  - If normal-grade I/II mobilizations PRN  
- PROM and AROM exercises in all planes only to restrictions stated in milestones 1,2,6,10  
  - Sleeper Stretch for IR (in plane of scap)  
  - AROM through full ROM without compensations (only to milestones)  
- Isometric strengthening in all directions 1,7,6  
  - IR (unless open procedure, then wait until week 6) ER, ABD, forward flexion)  
- Scapular control exercises 3,6  
- Begin rhythmic stabilization exercises 2,3,6,7  
- Elbow and grip ROM/strengthening PRN 2,3,6  
- Isometric strengthening exercises from isometric to isotonic 2,3,6,10  
  - Sidelying gravity resisted ER/IR  
  - T-band IR/ER with towel roll under arm at 0 deg ABD (no IR until week 6 if open procedure)  
  - PNF  
  - Shoulder flexion, scaption, and ABD to 90°  
- Progress scapular strengthening exercises 3,4,6,7  
  - Progress serratus push-up plus to more horizontal surfaces  
  - HOR ADD with T-band  
  - Bilateral ER/scap retraction in 0° ABD with T-band  
  - T-Band Rows to 20° ext  
  - Prone mid trap exercises with scap retraction to plane of the body  
- PRN, begin NMES to supraspinatus and infraspinatus using guidelines at end of protocol 9  
- Begin gentle dynamic stabilization exercises 2,3,6,7  
  - Rhythmic stabilizations with arm in 90° flexion—begin in supine and progress to seated  
  - “Ball on the Wall” at 90° flexion  
  - Modify HEP accordingly | **PROM:**  
- HOR ADD: full  
- IR: full in plane of scapula  
- ER: 30° in plane of scapula  
- Ext: to plane of the body  
- ABD: 90° pure plane  
- Flexion:  
  - 90° pure plane  
  - 120° across midline  
- Normal glenohumeral jt. mobility  
- No hypomobility or hypersensitivity of the scars |
| **Week 5-6** | ![Week 5-6 Details](#) | ![Week 5-6 Details](#) |
| Dates: ______ to ______ | - Progress ROM to milestones 1,8  
  - Progress Sleeper stretch by increasing angle of abduction  
  - AROM to milestones without compensations  
- Progress shoulder strengthening exercises from isometric to isotonic 2,3,6,10  
  - Sidelying gravity resisted ER/IR  
  - T-band IR/ER with towel roll under arm at 0 deg ABD (no IR until week 6 if open procedure)  
  - PNF  
  - Shoulder flexion, scaption, and ABD to 90°  
- Progress scapular strengthening exercises 3,4,6,7  
  - Progress serratus push-up plus to more horizontal surfaces  
  - HOR ADD with T-band  
  - Bilateral ER/scap retraction in 0° ABD with T-band  
  - T-Band Rows to 20° ext  
  - Prone mid trap exercises with scap retraction to plane of the body  
- PRN, begin NMES to supraspinatus and infraspinatus using guidelines at end of protocol 9  
- Begin gentle dynamic stabilization exercises 2,3,6,7  
  - Rhythmic stabilizations with arm in 90° flexion—begin in supine and progress to seated  
  - “Ball on the Wall” at 90° flexion  
  - Modify HEP accordingly | **AROM/PROM:**  
- HOR ADD: full  
- IR: full in plane of scapula  
- ER: 45° in plane of scapula  
- Ext: to 20° beyond plane of the body  
- Flex/ABD: 135-140° pure plane |

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| Weeks 7-8 | ▪ Continue to progress shoulder strengthening exercises\(^{3,4,5,6,7}\)  
▪ Continue to progress scapular stabilization/strengthening exercises\(^{3,4,5,6}\)  
  ▪ T-band IR/ER at 90° ABD to begin week 8-10  
  ▪ Closed chain exercises  
  ▪ Quadruped or tripod rhythmic stabilizations  
  ▪ PRN, continue NMES to supraspinatus and infraspinatus using guidelines at end of protocol\(^{9}\)  
  ▪ Initiate plyometrics (2 handed)\(^{2,3,5,6,7}\)  
  ▪ May initiate isokinetics in neutral (scapular plane)  
  ▪ Modify HEP accordingly | ▪ ROM  
  ▪ Maintains full ROM for flexion, ABD, and IR  
  ▪ When 70° ER at 90° of ABD achieved hold on progressing. If a thrower or overhead athlete, stop at 90°  
  ▪ Independent with HEP  
  ▪ Strength improving |
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<tr>
<td>Dates: ______ to ______</td>
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<tr>
<td>▪ 1-3 visits/week</td>
<td>▪ 1-2 times/week</td>
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<tr>
<td>Total Visits 8-24</td>
<td>Total Visits: 9</td>
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| Weeks 9-12 | ▪ Progress strengthening program prn\(^{2,3,6,7}\)  
▪ Progress plyometrics to 1 handed\(^{2,3,5,6,7}\)  
▪ Progress scap strengthening/stabilization exercises\(^{3,4,6,7}\)  
▪ Progress isokinetics to 45° ABD  
▪ Begin gym strengthening program as part of HEP with appropriate weightlifting modifications\(^{6,8}\) | ▪ MMT 5/5 all shoulder motions  
▪ Full shoulder ROM equal to the uninvolved side  
▪ Transition to gym program/HEP for strengthening |
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<td>Dates: ______ to ______</td>
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<tr>
<td>▪ 1-2 times/week</td>
<td>▪ 1 times/week</td>
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<tr>
<td>Total Visits: 9</td>
<td>Total Visits: 3</td>
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| Weeks 13-15 | ▪ Continue strengthening program prn\(^{2,3,6,7}\)  
▪ Continue plyometrics to 1 handed\(^{2,3,5,6,7}\)  
▪ Continue scap strengthening/stabilization exercises\(^{3,4,6,7}\)  
▪ Continue isokinetics to 45° ABD  
▪ Continue gym strengthening program as part of HEP with appropriate weightlifting modifications\(^{6,8}\) | ▪ Continue gym program/HEP for strengthening |
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<td>Dates: ______ to ______</td>
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<td>▪ 1 times/week</td>
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| Weeks 16-26 | ▪ Physical therapy is as needed for sport/work specific activities  
▪ Continue strengthening, dynamic stabilization exercises as HEP and/or in PT prn\(^{2,3,6,7}\)  
▪ Begin sport specific interval training program and/or throwing progression\(^{2,5,6,7}\)  
▪ Progression of sport/work specific rehabilitation following soreness rules\(^{7}\) | ▪ Return to sport/work |
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<td>▪ 1 times/week</td>
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Neuromuscular Electrical Stimulation NMES Guidelines

- **Patient Positioning:** seated in a chair with arm in about 30° of elevation in scapular plane and neutral IR/ER using a mobilization belt to prevent movement

- **Electrode Placement**
  - **Supraspinatus:** both pads placed superior to spine of scapula. One pad placed at the medial border of the scapula and one pad placed at lateral border of scapula. Avoid the upper trapezius as much as possible.
  - **Infraspinatus:** both pads placed inferior to the spine of the scapula. One pad placed at the medial border of the scapula and one pad placed at the lateral border of the scapula.

- **Parameters:**
  - **EMPI 300PV unit:** Pulse width = 400 microseconds, frequency = 75 pulse per second, on time = 12 seconds, off time = 50 seconds, ramp time = 2 seconds. Intensity to tolerance, goal of visible tetanic contraction.
  - **Versastim:** Pulse width = 2500Hz, frequency = 75 bursts per second, on time = 12 seconds, off time = 50 seconds, ramp time = 2 seconds. Intensity to tolerance, goal of visible tetanic contraction.

References


Updated: March 2016