



### **What is the treatment?**

Treatment involves both surgical and non-surgical options. If you have suffered a recent dislocation, X-rays may be obtained to make sure the shoulder has returned to the correct position. An MRI may also be obtained to evaluate the labrum, shoulder joint and rotator cuff tendons.

Studies have shown that patients who have an unstable shoulder or who have dislocated their shoulder at a younger age are much more likely to continue to have problems with instability without surgical treatment. As the body ages, tissue tightens. Therefore, patients of an older age with instability are more likely to be successful with non-surgical treatment. However, older patients who dislocate are more likely to also do other damage to the shoulder, such as tear the rotator cuff or fracture the humerus or glenoid.

### **Non-surgical treatment:**

#### **1. Rotator cuff strengthening**

exercises strengthen the muscles and tendons surrounding the shoulder joint and act as secondary stabilizers. They also decrease inflammation in the rotator cuff tendons. These exercises can be done at home, at a gym or with a physical therapist (see figure 4).

**2. Anti-inflammatory medications** help decrease inflammation and treat pain.

**3. Shoulder bracing** can be effective for athletes who have recurrent shoulder dislocations.

**Surgical treatment:** Shoulder surgery is almost always done via arthroscopy (surgery guided by video imaging as opposed to open surgery), but in patients with recurrent instability, open surgery may be recommended. Surgery stabilizes defects in the

labrum, capsule and surrounding ligaments. Stabilization occurs with placement of a small anchor into the glenoid. A suture is attached to the anchor and used to secure the labrum, capsule and ligaments to the glenoid.

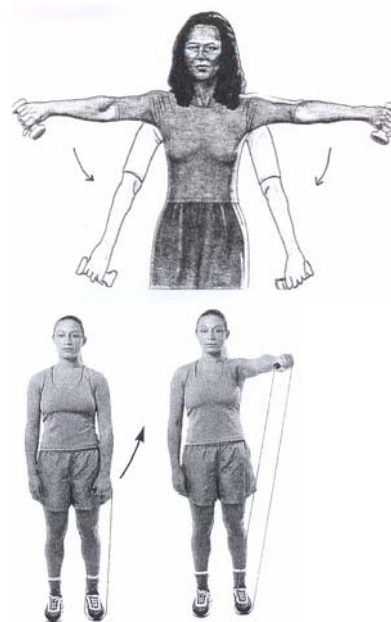
Surgical photos are available at [www.pamf.org/sports/staff/king.html](http://www.pamf.org/sports/staff/king.html).

### **What are the exercises?**

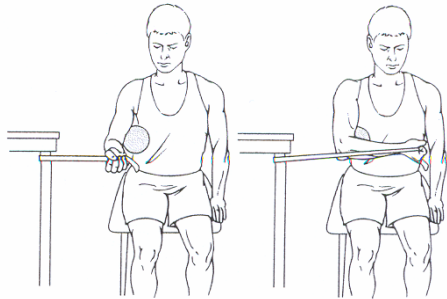
Rehabilitation exercises focus on strengthening the shoulder, specifically the rotator cuff and upper back. Rotator cuff strengthening exercises include internal rotation, external rotation and supraspinatus. Exercises can be done with therabands, hand weights or cable pulleys at a gym that are adjusted to the appropriate height.

**Each exercise should be done without pain for three sets of 20 repetitions.** If the patient is unable to do 20 reps, then the weight or resistance should be decreased.

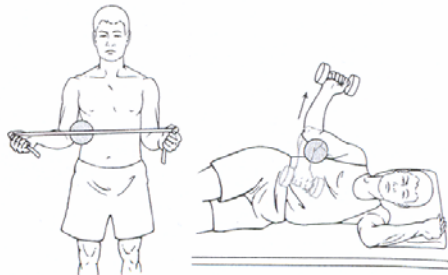
**See Fig 4-16.**



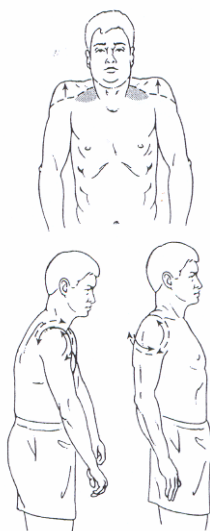
**Fig 4: Supraspinatus exercises with hand weights and therabands. Always have your thumb pointing to the floor, your arm out 45 degrees, and keep your arm below shoulder height.**



**Fig 5: Internal Rotation.** Hold a small ball or towel between arm and side and slowly rotate forearm across body. Return to start and repeat.

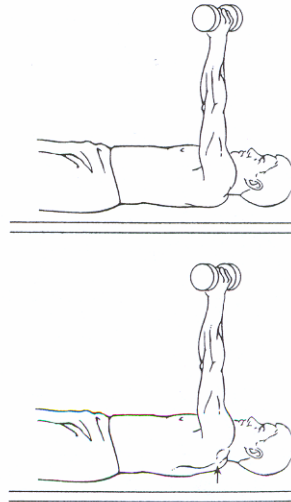


**Fig 6: External Rotation.** Hold a small ball or towel between arm and side while holding a weight or band; slowly rotate forearm away from side. Return to start and repeat.

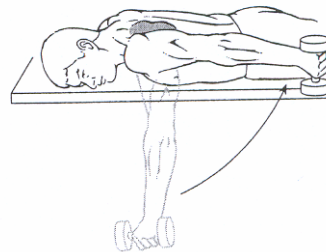


**Fig 7: Scapular Elevation, Shrugs.** Stand with arms at side in straight standing posture, shrug or raise shoulders up towards ears. Briefly hold, return to start and repeat. A

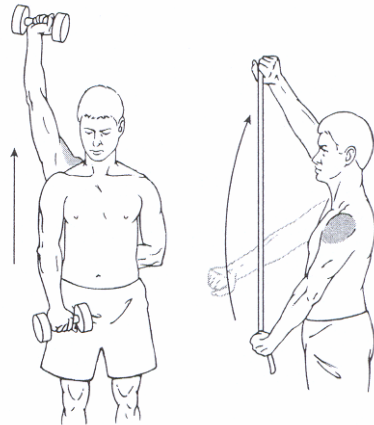
hand weight can add difficulty. Secondly, pull shoulder blades or scapula together in the back, hold, and then relax shoulders forward. Repeat.



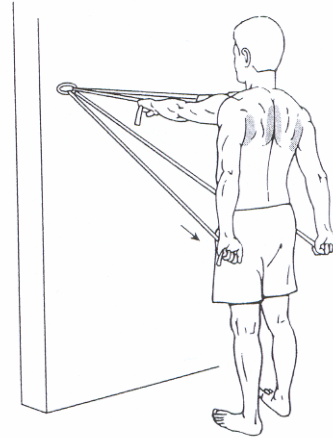
**Fig 8: Scapular Protraction.** Lie on back holding a hand weight. Keep elbows straight push hands up towards the ceiling, hold, return to start and repeat.



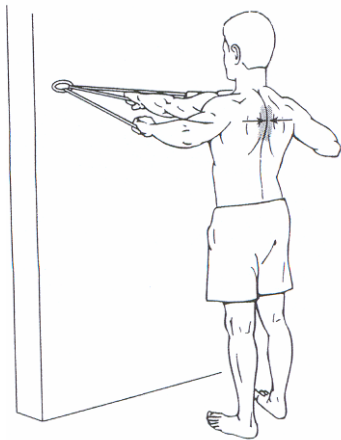
**Fig 9: Shoulder Extension.** Lie on stomach and with arm hanging off the side of the bed. Hold a hand weight and slowly raise your arm up until it is level with side and next to body, hold, slowly return to start and repeat.



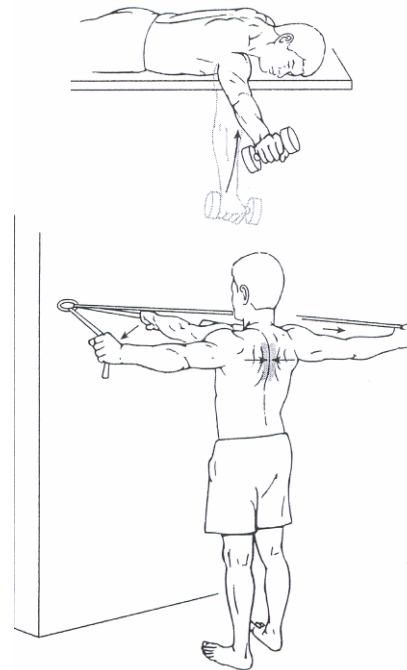
**Fig 10: Shoulder Flexion.** While standing holding a hand weight or resistance tubing, slowly raise arm overhead, hold, slowly return to start and repeat. Motion should be pain free. Avoid shrugging the shoulder.



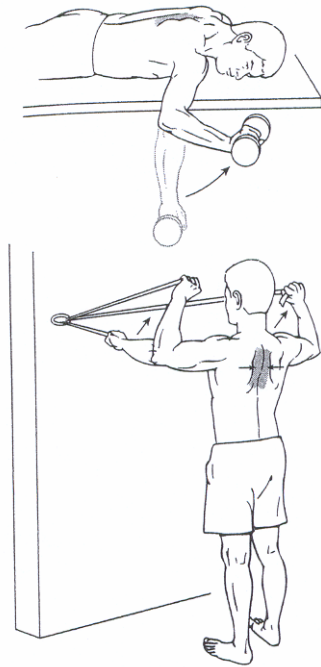
**Fig 12: Shoulder Extension.** Anchor tubing to fixed object and hold ends of tubing in each hand. Slowly pull hands down to the side while squeezing shoulder blades together. Hold, slowly return to start, and repeat.



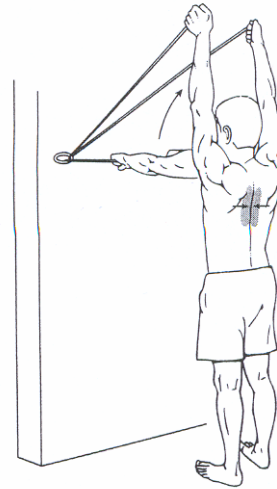
**Fig 11: Scapular Retraction.** Anchor tubing to a fixed object and hold ends of tubing in each hand. Squeeze and pinch your shoulder blades together, pulling your arms back. Hold, slowly return to start and repeat.



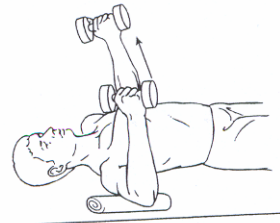
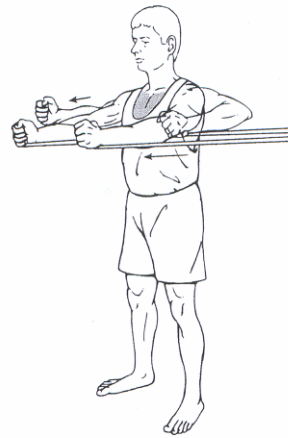
**Fig 13: Horizontal Abduction.** With a hand weight, lie on stomach, and start with the arm hanging down. Keep the elbow straight, slowly raise arm up and out from side. Hold, slowly return to start and repeat. With a band, hold one end in each hand in front of body. Keep elbows straight, pull arms apart, or out to the side at shoulder height. Hold, slowly return to start and repeat.



**Fig 14: Scapular Retraction and External Rotation.** If using a weight, lie on stomach, with arm out to the side hanging down with elbow bent at 90 degrees. Upper arm should be supported by the bed. Turn and rotate arm towards the ceiling while keeping the elbow bent at 90. Squeeze the shoulder blades together, hold, slowly return to start. If using a band, bend each elbow at 90 degrees at shoulder height and squeeze shoulder blades together. While squeezing shoulder blades, raise hands above shoulder height as shown. Hold, slowly return to start and repeat.



**Fig 15: Scapular Retraction and Elevation.** Hold one end of the band in each hand at shoulder height. Squeeze and pinch shoulder blades together and while keeping both arms straight slowly raise arms overhead. Try to keep thumbs in a 'thumbs-up' position. Hold, slowly return to start and repeat.



**Fig 16: Horizontal Adduction.** With weights, lie on back holding weights with elbows bent. Slowly raise arms towards ceiling straightening elbow. Hold, slowly lower and repeat. With bands anchored behind, slowly push arms out in front straightening elbows. Hold, slowly bend elbows and repeat.