



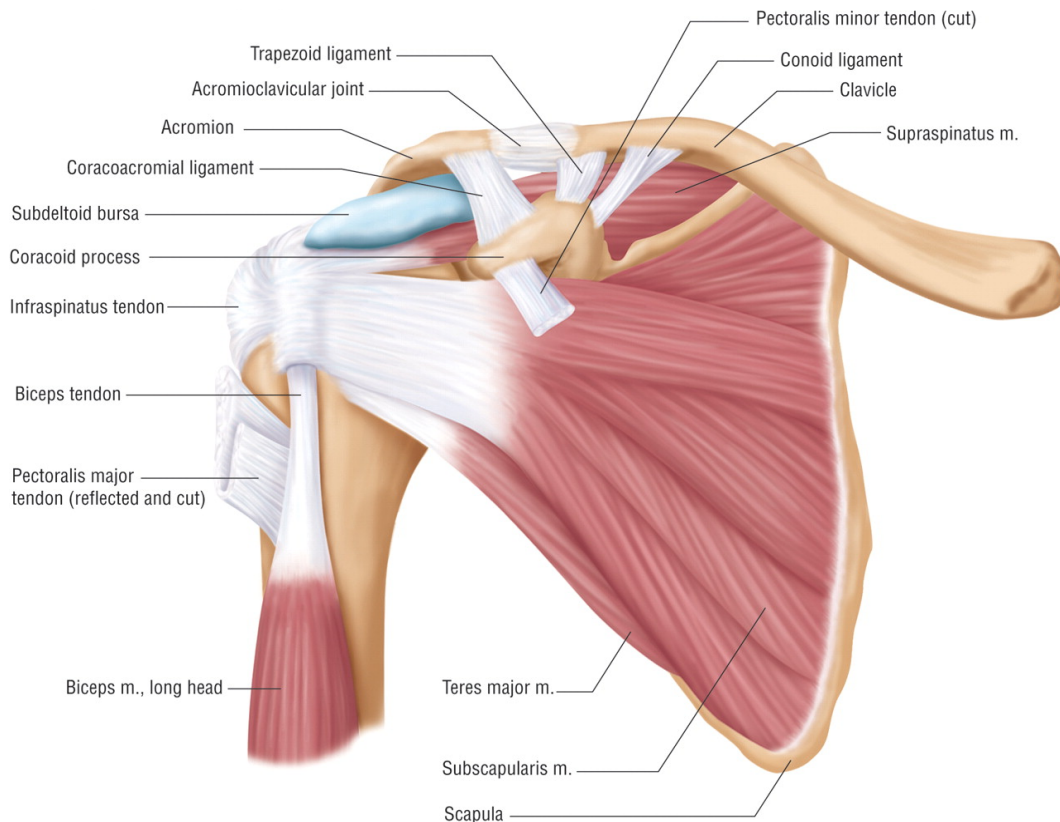
# Labral Repair Book

Dr. Allan Hunt

4010 W 65<sup>th</sup> St  
Edina, MN 55435

2855 Campus Drive  
Suite 300  
Plymouth, MN 55441

[www.tcomn.com](http://www.tcomn.com)  
[www.allanhuntmd.com](http://www.allanhuntmd.com)



### Normal shoulder function

The shoulder is the most flexible joint in the body, allowing you to move and rotate your arm in many different positions. Due to this extensive flexibility, the shoulder joint is susceptible to injury and instability.

The shoulder is made up of three bones: the humerus (arm bone), scapula (shoulder blade), and clavicle (collar bone). These three bones create two separate joints within the shoulder.

The shoulder joint is a ball and socket joint. It is created by the ball at the upper end of the humerus fitting into the shallow socket (glenoid) of the scapula. To improve the stability of the shoulder joint, there is a tough cartilage ring around the socket called the labrum. These structures make up the glenohumeral joint.

The glenohumeral joint is surrounded by a thick capsule that helps keep the joint fluid within the joint. The joint fluid helps nourish the articular cartilage, the smooth cartilage on the ends of your bones that help keep your shoulder movements smooth and friction-free.

Outside of the capsule there is a group of four muscles and tendons that surround the shoulder joint to help keep the upper part of the arm attached to the scapula. These muscles are the rotator cuff muscles and are important for raising and rotating your arm, as well as other, more complex movements like throwing or swimming.

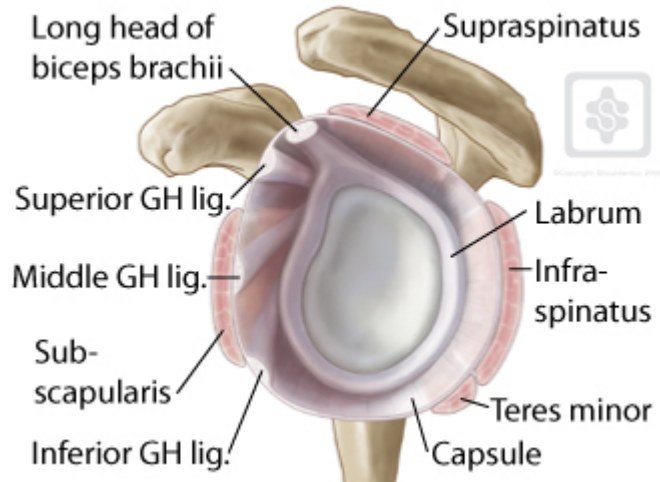
A bony portion of the scapula (acromion) projects over the shoulder joint to help protect the joint and allow for attachments of different muscles in and

around the shoulder. The lateral aspect of the clavicle attaches to the acromion just above the shoulder joint, creating the acromioclavicular, or AC joint.

There are areas of potential high friction within the shoulder. The body creates a lubricating structure (bursa) to help decrease the friction in these areas and allow easy motion in the shoulder.

### Instability

Shoulder instability commonly arises from a traumatic injury to the shoulder joint. During this trauma, the head of the humerus dislocates outside of the socket, causing pain and instability. The resultant of the dislocation can be stretching of the shoulder capsule and/or a tear of the labrum surrounding the glenoid. These two structures function to keep the humeral head on the glenoid and keep the shoulder stable throughout its great range of motion. Instability can be categorized as anterior, posterior or multi-directional, depending on the structures injured.



<http://www.frozenshoulder.ca/anatomy.html>

### Labral Tear

As stated, a labral tear is commonly associated with a traumatic injury to the shoulder joint, with full or partial dislocation of the shoulder. After the injury, patients may experience severe pain, inability to move the affected arm, weakness, or numbness. These signs and symptoms should be evaluated by an orthopedic provider sooner than later.

In order to diagnose a labral tear, Dr. Hunt will conduct a detailed history and physical exam. He will also obtain x-rays of the affected shoulder. These images can tell us useful information to help us refine our diagnosis. If warranted, Dr. Hunt may order advanced imaging, such as a MRI to help see the soft tissues in and around the shoulder. He will also ask that you get an injection of special contrast media to help define structures within the shoulder joint. This is done just before the imaging



study. MRI is the gold standard when evaluating soft tissues in the shoulder.

Dr. Hunt will see his patients in clinic after the MRI to review the findings, refine his diagnosis, and present treatment options. If surgical intervention is recommended, Dr. Hunt will talk with you about the procedure, risks, and answer any questions you may have before the procedure.

### Risks

There are some risks associated with surgery; any time we use a needle to penetrate your skin or make an incision, there is a very low risk of contracting an infection. We do everything we can to prevent infections from occurring. There is also a small risk of blood vessel or nerve damage, bleeding, blood clot formation, failure of the repair, incomplete resolution of the pain, swelling and stiffness in the operative shoulder. There are also certain risks with anesthesia that will be addressed with you before your procedure.

### Before Surgery

Before we can perform any surgical procedure, we need you to see your primary care provider for a pre-operative history and physical exam to make sure that you are healthy enough to tolerate the stress of the surgery. Your primary care provider may do some additional testing to assess your health in preparation for the surgery.



We ask that you refrain from using any non-steroidal anti-inflammatory medications (NSAIDs), such as ibuprofen, naproxen, Aleve or Advil for 10 days prior to your surgery. We also ask that you stop taking aspirin 7 days before your surgical date. Please contact your primary care provider regarding taking your other medications on the day of surgery. You may take Tylenol or Celebrex as needed up until the day before surgery.

In order to ensure your health and the best possible outcome from your procedure, we ask that you quit using any and all kinds of tobacco. Quitting may be difficult, but it is important for the short-term outcomes related to your surgery and the long-term health of your body. Repairs may be delayed in healing or may not heal at all if you continue to use tobacco after your surgery. If you would like assistance finding the right method of smoking cessation for you, please contact us or your primary care provider.

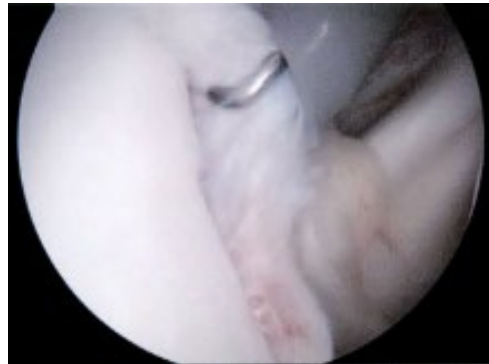
Before your scheduled procedure, we will have you meet with one of our staff to fit you with a specialized sling. You will wear your sling for 4-6 weeks after surgery and it is important that it fits properly to ensure the best possible result from your surgery. **\*\*Please bring the sling with you on the day of your surgery\*\***

### Procedure

The day of the procedure, we ask that you do NOT eat or drink any food or liquids before coming to the surgery location. Once you are registered at the surgery center, we will start an IV in your arm and prepare you for your surgery. You will meet with the anesthesiologist and have every opportunity to ask questions you may have. You will also see and speak with Dr. Hunt on the day of your procedure. Before you are taken to the operating room, the anesthesiologist will administer a scalene block on the side of the operative shoulder. This is an injection of a long-acting local anesthetic at the base of your neck where the nerves exit your neck that will help control pain during and after the procedure. When ready, you are taken to the operative suite and placed on a flat bed. We use a very light general anesthetic to put you to sleep, but light enough where you continue to breathe on your own. We then position you around a beanbag and prep your shoulder for surgery. The surgical procedure itself takes approximately 1 hour.

Dr. Hunt uses an arthroscope to visualize and assess all of the structures inside the shoulder joint. An extensive assessment of the labrum is performed and the bone is debrided of any excess tissue. Then specialized anchors and sutures are used to attach the torn labrum back to the proper anatomical location. After the repair, the shoulder is tested for stability and the portal sites are closed with absorbable suture.

After the surgery, a long-acting numbing medication is injected into your shoulder to help with pain control the day of surgery. The pre-fit sling will be placed on your arm before you are taken to the post-operative area where you are allowed to recover until you are ready to go home.



### After Surgery

For the first 3 days after surgery, we suggest that you pack your operative shoulder in ice constantly. This will help prevent swelling and lead to a much shorter recovery period. We have placed enough dressings on your shoulder that you will not experience any frostbite to your skin from the ice.

You may remove the bandages from your shoulder 72 hours after surgery. After removal of the bandages, there will be Steri-strips over the incisions. Keep these Steri-strips on until they fall off on their own. At this point you are able to shower, letting water and soap run over the shoulder and patting it dry. Do not submerge the incisions under water.

It is normal for your shoulder to be mildly warm after your surgery. This is due to the increase in blood flow to the area in response to the surgery. The shoulder and arm may swell up in response to the surgery as well. You may also experience a low-grade fever while recovering. This is a normal part of the inflammatory response your body mounts after an invasive procedure.



## Pain Relief

After surgery, we provide you with a few different strategies for pain control. Most of the pain after surgery is associated with swelling- to prevent the swelling and discomfort we ask that you try to keep ice packs on the operative shoulder constantly for the first 3 days after surgery. We also provide you with 3 different prescription medications to help control your pain. Two of these medications are narcotic pain medications; one is a long-acting pain medication that gives you good baseline relief, and the other is a short-acting medication that you should use for breakthrough pain. Some of the side effects of the narcotic pain medications are drowsiness, dry mouth and constipation. Drink plenty of water while taking these medications. You may want to use a stool softener during the treatment period as well to help prevent any bowel discomfort.

We will also prescribe you a medication for nausea and/or vomiting that you can use if the other medications cause any discomfort in your stomach. You can use this medication as needed for nausea or vomiting that you may experience.

If there is an increase in pain after the first 3 days, rest the operative arm by staying off of your feet and icing constantly for 12-16 hours. This should help calm the inflammation in your shoulder and your discomfort should abate. Use ice as much as you need to control the pain and swelling.

## Recovery

After surgery, you will be in your sling for 4-6 weeks. After coming out of the sling, you will not have full use of your operative arm due to the prolonged time in the sling. You will work with physical therapy to regain your motion and strength after the surgery. It may take up to 3 months to feel comfortable using your arm for everyday activities. Patients will continue to see improvement up to 18 months after their surgery to feel the final result.

Many patients find that sleeping in a reclined position for the first 7-10 days is more comfortable than lying on their back. Others have found that placing a pillow underneath the operative arm can help keep the arm from falling back and causing discomfort.

## Restrictions

You must wear your sling at all times. This will protect the repair in your daily activities and during sleep. You must sleep with the sling on. You may remove the sling to dress, bathe and do your exercises, but must wear it at all other times.

You will start to do pendulum exercises the day after your surgery. These are performed by coming out of your sling and bending over at the waist so your back is parallel to the floor. Use your non-operative arm to steady yourself against a chair or table. Let your operative arm hang freely and lightly swing your arm in circles, both clockwise and counter-clockwise, so your arm is moving in a

circle about the size of a dinner plate. Do these exercises 3 times per day for 5-10 minutes each time.

#### When to Call

There are certain situations after surgery in which you should contact your surgeon. Please call if you experience any of the following:

- Fever over 101 degrees for more than 24 hours
- Foul drainage, redness or warmth at the operative site
- Large amounts of bleeding or drainage
- Severe or uncontrolled pain
- Persistent nausea or vomiting
- Hives, rash or medication intolerance

\*\*\* Call 911 or go to the nearest Emergency Room if you experience shortness of breath, redness, warmth and extreme pain in the calf. These are signs of a blood clot.\*\*\*

#### Physical therapy

We ask that you make your physical therapy appointments prior to your surgery date. You should start your therapy within one week of your repair. We will provide you with a referral with your surgery paperwork on the day of your procedure. If you would like to set-up physical therapy with Twin Cities Orthopedics, please call 952-456-7004. Dr. Hunt's rehab protocol is attached at the end of this book. Please bring this protocol to your first physical therapy appointment with your referral.

#### Follow-up

You will follow up with Nick Meath, Dr. Hunt's physician assistant 10-14 days after surgery. This appointment is made for you at the time you schedule your surgery. At this appointment, your pain control, restrictions, incisions and work/school status will all be discussed. Your intra-operative photos of your surgery will be reviewed with you at this appointment as well. You will have a follow up appointment with Dr. Hunt 6-8 weeks after your surgery.

If you miss any of your post-operative appointments, we reserve the right to deny any medication refill requests you have until you are seen in clinic.

If any questions, concerns or issues arise, feel free to contact Sara, our care coordinator at **952-486-5108** during regular business hours, or call our main number at **952-456-7000**.

## Appendix I

**Labral Repair  
Physical Therapy Protocol  
Dr. Allan Hunt****Phase I 0-6 Weeks**

Educate the patient on self-care/hygiene, supporting shoulder with sling/abductor support, warning signs including fever, erythema and excessive/unrelenting pain

Week 1 Ice 3-5 times per day for 15 minutes each

May eat, type, write, brush teeth with sling in place

Sling on at all times with abductor pillow for full 4 weeks

Codman's exercises 3-5 times per day for 10-15 minutes each- *flexion and extension plane only*

AROM elbow, wrist and hand, scapular squeezes

AAROM IR behind back may begin following 1<sup>st</sup> post-op visit

Ice and NSAIDs after physical therapy and exercises

**\*\*No active or passive abduction, extension or external rotation for full 6 weeks\*\***

**Phase II 6-12 Weeks**

Recheck with surgeon at 6-8 weeks

Start PROM/AROM all planes

Joint mobilization all planes PRN

Encourage home exercise program

Free weight rotator cuff strengthening all planes (No Theraband)

**Phase III 12 weeks to discharge**

Progress to more active strengthening, power and endurance to patient's tolerance

Capsular stretching

Full AROM, progressing to full scapular and glenohumeral strength in all planes