



**Lucas Wymore, MD**  
 Sports Medicine  
 40700 California Oaks Drive Suite 205  
 Murrieta CA 92562

Office Phone: 949-491-9991  
 Office Fax: 949-612-9795  
 Email: [Wymore@newportcare.org](mailto:Wymore@newportcare.org)

## PATIENT GUIDE TO MENISCUS ROOT INJURIES

### What is the meniscus root?

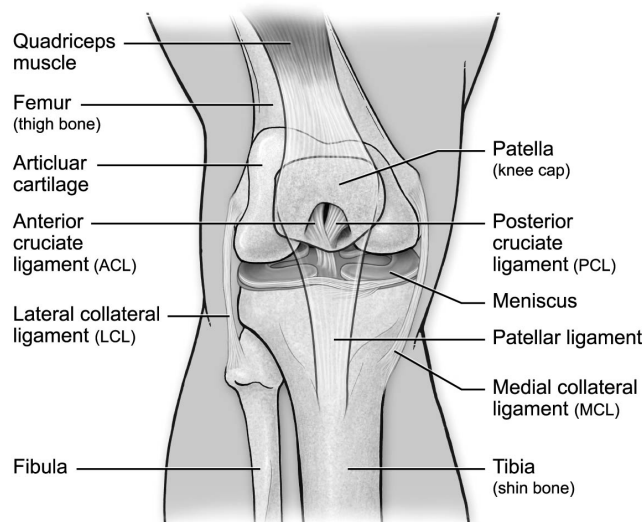
The meniscus is a wedge shaped cartilage ring found on both the inside and outside of the knee between the femur (thigh bone) and tibia (shin bone). The menisci act as shock absorbers in the knee, and provide stability to the joint. The root is the portion of the meniscus that attaches to the tibia bone.

### How is the meniscus root injured?

The meniscus is usually injured by twisting on a planted foot or squatting down and forcefully bending the knee. Occasionally, the tear occurs with very little stress on the knee. The tear can also be degenerative, meaning that the tear occurs because the tissue is worn out over time.

### How do I know my meniscus root is torn?

Most tears of the meniscus lead to knee pain in the area of the tear, on the inside or outside of the knee. Swelling of the knee may also occur. Occasionally, locking of the knee can occur, when the meniscus gets wedged between the bones of the knee. Pain and instability caused by the meniscus tear can also cause the knee to buckle or “give way”. Twisting activities usually worsen the symptoms.



### **Do I need x-rays, a MRI, or any other tests?**

A set of x-rays may be ordered to evaluate the knee for arthritis or a fracture of the bones. Many times the diagnosis of a meniscus tear can be made through the examination in the office. However, a MRI can be helpful to confirm the tear and rule out any other injuries to the knee. An MRI will help determine if the meniscus root or if another part of the meniscus is torn. It will also show if the bone is being overloaded with extra fluid in the bone seen on the MRI.

### **Is there usually any other damage to the knee when the meniscus is torn?**

Ligaments in the knee can be injured at the same time as the meniscus, depending on how your knee was injured. In addition, there can be an injury to the joint surface (articular cartilage) at the time of the injury. If surgery is required, damage to the joint surface will be evaluated and treated at the time of your arthroscopy.

### **What treatment options do I have?**

Some people with meniscus tears will respond to conservative treatment, including rest, medications, and physical therapy. Meniscus root tears do not heal on their own, and if left untreated, can lead to rapid onset of arthritis. Because of this, surgery is often recommended if the joint cartilage is healthy.

Patients that are not candidates for surgery usually have too much arthritis at the time of injury. In those cases, surgery to repair the meniscus will provide little relief. Cortisone, gel, or PRP injections may help with symptoms. Joint replacement may be a more appropriate procedure in these cases.

### **How is the surgery performed?**

Meniscal root repair surgery is performed by arthroscopy. The arthroscope is a fiber optic instrument (narrower than a pen) which is put into the knee joint through small incisions. A camera is attached to the arthroscope and the image is viewed on a TV monitor. The arthroscope allows me to fully evaluate the entire knee joint, including the kneecap (patella), the cartilage surfaces, the meniscus, the ligaments (ACL & PCL), and the joint lining. Small instruments ranging from 3-5 millimeters in size are inserted through additional incisions so that I can feel the joint structures for any damage, diagnose the injury, and then repair, reconstruct, or remove the damaged tissue.

Special tools are used to drill a small socket at the meniscus attachment point. Stitches are then passed into the meniscus tissue. The stitches are shuttled into the bone tunnel and tied over a small metal button. The procedure takes less than an hour in most cases.

### **What is the difference between partial meniscectomy and meniscal root repair?**

Depending on the type of tear, the piece of meniscus that is torn may be removed from the knee (partial meniscectomy) or repaired (sewn back in place). While the majority of meniscus tears are treated with meniscectomy, meniscus root tears are unique. Root repairs are very unstable and require significant protection during the healing process. Strict non weight bearing is required for the first six weeks. A brace is also used. Patients will need crutches, a walker, or a wheelchair during this time. Physical therapy starts right away and continues for several months. The goals of therapy are to reduce pain and swelling, followed by advancing strength training and return to activities. Most patients will see maximal medical improvement around 6 months after surgery.

### **What are some of the possible complications of surgery?**

While complications are not common, all surgery has associated risk. Possible complications include stiffness of the knee after surgery or continued pain. The use of arthroscopic techniques attempts to limit these complications. Other complications include an infection, bleeding, nerve damage, blood clots, or problems with the anesthesia.

For a meniscus root repair, it is possible that the torn area will not heal. This may require a second surgery to remove the torn meniscus. Even though this is possible, it is better to attempt to repair a meniscus that may heal, in order to preserve the normal meniscus function.

### **What kind of anesthesia is used?**

Meniscus root repairs are performed with general anesthesia (going to sleep) and occasionally a nerve block.

### **What do I need to do to prepare for surgery?**

Our staff will help to set up the surgery through your insurance company and will instruct you on any paperwork that may be necessary.

Prior to your surgery, you may be asked to get several medical tests, done on an outpatient basis. Most patients need some minor blood tests. If you are over age 45, you may require an EKG. Some patients need to see an internist or their family doctor to obtain clearance for surgery.

The night before the surgery, a member of our staff will contact you about what time to arrive for surgery. You may not eat or drink anything after midnight the night before your surgery.

### **Can I continue to take my medications?**

You should STOP taking any aspirin or anti-inflammatory medication (Motrin, Advil, Relafen, Naprosyn, etc.) at least seven days prior to your surgery. However, you may CONTINUE to take Celebrex or Vioxx if you are on these medications. You may also take Tylenol as needed.

Continue to take any other prescribed medications, such as blood pressure pills, up until the day of surgery. You may also take these medications the morning of surgery with a sip of water.

### **How long will I be in the hospital?**

Almost all patients are able to have surgery and go home the same day.

### **What happens the day of surgery?**

The morning of your surgery you will be admitted and taken to a pre-operative holding area where you are prepared for surgery.

You will be asked several times which extremity I am operating on. Please note that you are asked this question many times on purpose.

After the operation, you will be taken to the recovery room to be monitored. Once the effects of anesthesia have worn off and your pain is under good control, you will be taken to another area where you can see your family and finish recovering. You will be given all of your post-operative instructions and pain medication before leaving.

Please be aware that the process of getting checked in, prepared for surgery, undergoing the operation, and recovering from anesthesia takes the majority of the day. I would recommend that you and your family members bring along some reading material to make the process easier for all.

### **How should I care for my knee after surgery?**

Prior to your discharge, you will be given specific instructions on how to care for your knee. In general, you can expect the following:

**Diet:** Resume your regular diet as soon as tolerated. It is best to start with clear liquids before advancing to solid food.

**Medication:** You will be given a prescription for pain medication.

**Bandage:** You will have a thick dressing on the knee. You will be instructed on when it can be removed, usually in 3 days. After your dressing is removed, you should cover your sutures with a Band-Aid to protect the area from irritation.

**Showering:** You may shower after your dressing is removed, after 5 days. You cannot take a bath until the wounds are completely sealed, usually 2 – 3 weeks after surgery.

**Crutches:** You will have crutches after surgery, and will be instructed on how to use them. How long you use crutches will depend on the type of surgery performed. Crutches are commonly only required for a few days to one week.

**Brace:** If a meniscus repair is performed, you may receive a brace to restrict the motion of your knee up to 90 degrees. This is to protect the repair for the first six weeks, to allow the area to heal.

**Ice:** You may receive an ice machine that continually surrounds your knee with cold water. If not, you may apply ice over the dressings for 30 minutes every hour for several days. Do not use heat.

**Suture removal:** Your stitches will be removed at your office visit 7-10 days after surgery. Occasionally, sutures are used which resorb and do not need to be removed.

**Follow-up office visit:** You will be instructed on when to follow-up in the office. This is usually 7-10 days after surgery.

**Exercise:** You will be instructed on exercises you can do immediately after surgery. You will start physical therapy within 1 to 2 weeks after surgery.

**Return to work or school:** You can return to school or work within 3 – 5 days using the crutches. If your job involves more extended walking or heavy activity, you may be out of work or school for a longer period of time.

### **What will rehabilitation involve?**

The rehabilitation is based on several goals: 1) allowing the tissue to heal; 2) regaining motion; 3) regaining strength; and 4) return to sports. After partial meniscectomy, the rehabilitation generally occurs very rapidly. Most patients can return to strenuous work in four to six weeks. Following meniscus repair, you will be restricted from bending beyond 90 degrees or squatting for the first 6 weeks. The specific rehabilitation protocol will be reviewed after surgery.

### **When can I return to sports?**

Your return to sports will depend on the extent of damage and the procedure performed on your knee. In general, you will be allowed to return to sports in one to two months after surgery. If you required a meniscal repair your return to sports will be delayed further. You must have good motion, strength, and control of your knee. How quickly you return to sports depends on several factors, including: 1) your own rate of healing; 2) the damage found at surgery; 3) if you have any complications; 4) how well you follow the post-operative instructions; 5) how hard you work in rehabilitation.

## **Our commitment**

The entire NewportCare team is committed to you, the patient. We understand that this is a stressful time, and you may be anxious about your injury and the need for surgery. Please contact me with any questions about your injury or treatment plan.

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