



Dr. A. Holly Johnson, MD
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FAQ Achilles Tendon Rupture

What is an Achilles tendon rupture and how did it happen?

An Achilles tendon rupture is exactly what it seems: a rupture of the tendon at the back of your ankle that originates from the calf muscles (gastrocnemius and soleus) and inserts into the calcaneus bone. Most patients will hear a “pop” at the time of injury. 10% of Achilles tendon ruptures occur in patients who have pre-existing Achilles tendinopathy. Achilles tendon ruptures occur due to a trauma, most commonly with physical activity that was not preceded by proper stretching.

How is it diagnosed?

We diagnose Achilles tendon ruptures based on the patient’s history (story of the moment of injury) and physical exam findings. Usually, there is a palpable “step-off” along the Achilles tendon, where the rupture can be felt by the practitioner. Sometimes we will use additional imaging studies (X-ray, Ultrasound, and/or MRI) to confirm the diagnosis or to rule out other injuries that could be associated with the trauma causing the rupture.

How are Achilles tendon ruptures treated conservatively?

Rest, elevation

Anti-inflammatories

Immobilization in Cast and then a CAM boot with heel wedges x 3-6 months

*only indicated in a very specific sub-set of patients

How are Achilles tendon ruptures treated surgically?

We treat Achilles tendon ruptures through an incision directly over the rupture. The exact location of the rupture affects the length of the incision and the exact surgical approach. For mid-substance tears and tears closer to the muscle, a classic end to end repair will be performed with strong suture material. For tears very close to the insertion point of the tendon on the calcaneus or ruptures causing an avulsion fracture of the calcaneus, the use of suture anchors is highly considered. Suture anchors are used to repair and reconnect the Achilles directly into the calcaneus bone. Often times this is an intra-op decision.

What is the recovery process like for an Achilles tendon repair?

Traditionally, after an Achilles tendon repair, patients were immobilized and non-weight bearing for about 6 months. Both surgery and rehab protocols are advancing, so the recovery period is shortened.

After surgery, you will be in a splint for 2-3 weeks, until your first post-op appointment. At this appointment, the splint will be removed to evaluate the incision and sutures will be removed. Then you will be placed in a boot. If you purchased a boot, please bring it to this appointment. We often recommend the Vacoped boot to facilitate healing and function. You may begin to bear weight in the boot between 2-4 weeks post op depending on what you are told at the first post op appointment. Each week, you will adjust the wedges (or Vacoped setting) to decrease the angle of plantarflexion through your ankle. You will continue this way for 4-6 weeks, until you return to the office for another evaluation anywhere from 10-12 weeks post-op. At this visit, we will determine what rate you wean out of the boot and into sneakers.



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Typically, after an Achilles tendon repair, it is about 6 months before you return to all activities, such as sports, running, jumping, etc.

Is physical therapy necessary after surgery?

Yes. Physical therapy is necessary after surgery in order to reduce scar, reduce swelling and promote strengthening of the Achilles, as well as other soft tissue structures in the ankle. Specifically for our Achilles tendon repairs, we are providing patients with a packet for your PT to work using BFR (blood flow restriction) techniques to promote strength without overloading the newly repaired tendon with weight. Ideally, you will start this PT regimen almost immediately post-op.

What type of anesthesia is used?

Most of our procedures are done with a nerve block (regional anesthesia) while you are in a twilight sleep. First, the anesthesiologist will sedate you with Propofol. Then, they will perform the popliteal fossa block in the operating room once you are asleep. It will numb your leg from the knee down. This is typically a long-acting block that may last 24-48 hours. On rare instances this can last as long as 3 days. This is done for pain control and comfort during and after the procedure.

Sometimes, the anesthesiologist will also do an epidural, or “spinal,” in addition to the medication behind the knee. This will numb you from the waist down during the procedure and wears off in the recovery room.

You will meet with your anesthesiologist the day of surgery to discuss what type of anesthesia will be performed in more detail.

Do I have to stay overnight?

No. Most of our surgeries are ambulatory. You typically come in 2 hours before your procedure and stay about 1-2 hours after the procedure. Please leave the whole day open.

What medications are prescribed after the procedure?

Pain: Ibuprofen (600mg every 6 hours) and Tylenol (650mg every 6 hours), strictly for 3 days to reduce the need for opioid medication. You will have a prescription for 5-15 tablets of 5mg oxycodone, depending on the procedure. Refills are not given. Our goal is to reduce your need for opioid medication. Most patients do not require opioids past post-op day 3. Taking opioids for 4 days or more increases your risk of addiction.

Anti-nausea medication: Zofran 4mg to be taken as needed every 8 hours.

Constipation: Colace 100mg 3x/day, as needed, for constipation after anesthesia and with opioid use. In some cases, we add Senna to be taken twice daily, only as needed.

Bone health: Calcium citrate and Vitamin D3 should be taken daily for 3 months after surgery. If the pharmacy cannot provide you with this prescription, you may purchase it over the counter. Please take 1,000-1,200mg Calcium daily and 1,000-1,200 IUD Vitamin D3 daily.

Blood clot prevention: Aspirin 325mg daily for 2-6 weeks after surgery. If you have a history of blood clots in your family or you are at high risk for blood clots, we may give you a different medication.



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Your medications will be sent to your pharmacy after the procedure. If you wish to have your medications prescribed before the surgery, you will need to contact the physician assistant at least one week prior and provide reasoning for receiving your medications early. This is important, as you will be prescribed opioid medications, which are a controlled substance.

What can I use to make my life easier after surgery and can I buy it ahead of time?

Recovering after surgery is hard. There are multiple things we can recommend to help make it slightly better:

Knee Scooter: If Dr. Johnson chooses the formal bunion correction for you, you will not be able to weight onto your foot for 6-8 weeks. Having a scooter will make this much easier. If you would like to rent one you can go to www.kneewalkercentral.com or call 855-973-3978. Alternatively, you can buy one online on websites such as Amazon.

I-walk: A small population do well with something called an I-walk. This looks like a pirates peg leg and straps to your lower leg. You put your weight through your knee. This allows you to more easily do things like stairs and have your hands free.

“Even Up”: If you are given a boot or a heel wedge shoe, you may feel uneven on the opposite leg. You can purchase an Even Up online to use on the opposite foot over the shoe. This is especially helpful to prevent hip or knee pain due to being unbalanced.

Shower bag/cast bag: For any procedure you will need to keep your foot dry for 2 weeks after the procedure. You can do this by putting a cover over your dressing. You may purchase this at any pharmacy or online.

Shower Chair: If you do not have a bench in your shower/bath, you may purchase or rent a shower chair so you can sit as you bathe.

Walker/crutches: This is usually provided for by the physical therapist after your procedure in the recovery room.

Will someone call me after my procedure?

Yes. You will get a call from the hospital the day after surgery and from either Dr Johnson or Rebecca, the physician assistant (PA). If the hospital gives you instructions that do not align with what Dr Johnson or Rebecca discuss with you, please use our instruction instead. The hospital will be giving you general guidelines, but we are more specific to you as a patient and to your surgery.

How do I safely dispose of my medication after surgery if I have some left?

It is important that left over pain medication is removed from the home and safely discarded. Most pharmacies, hospitals, and police stations participate in the “take back program” that for safe drug disposal. If you would like to find a disposal location close to you, please visit:

<https://www.deadiversion.usdoj.gov/pubdispsearch>



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Alternatively, if you have a couple of pills left, you may separate them out of the bottle and mix them in cat litter or coffee grounds. Do not flush the medication because they get in the water supply. Please also do not throw them out in the bottle as people may go through your garbage.

Should I ice after surgery?

Yes. Icing after surgery is important. Initially, you may not be able to ice through the dressing, as it will be rather thick. You can ice behind your knee or ankle to get some cooling effect down to your foot/ankle. When you return for your first post-op appointment, we will remove the dressing for you and you will be able to ice. Please remember the 20min on and 20min off rule for icing.

Can I adjust my dressing?

No. Please keep your dressing on and do not adjust. Keep it clean and do not allow it to get wet. Be careful to make sure the shower bag fits appropriately to decrease the risk of damaging your dressing.

How much do I need to elevate?

Elevation in the first two weeks is extremely important. Reducing swelling helps in pain control and making sure your incisions heal. We typically recommend elevating 80% of the time during the first week and 50% of the time the second week. Placing your leg on 2-3 pillows should be sufficient.

What is considered "normal" after the procedure?

Swelling, pain, and bruising are all normal after surgery. You may notice swelling and bruising travel into the toes, even on toes we did not operate on. This swelling will go up and down depending on how much you elevate. You may have good days and bad days. Try to limit your activity. The bruising may also change location or color. This is normal. A small amount of drainage is also normal after surgery. If your dressings have soaked through or do not stop draining, please call the office.

I put weight onto my foot by accident. Did I hurt the surgery?

Accidents happen. If you are told to not put weight onto your foot please refrain from doing so. If you by accidently fall off your scooter or there is some situation where you by accidently put weight onto your foot, you may have increased pain and swelling. If this does not go away after a day or two please call the office. The likelihood that one event has hurt your surgery is unlikely.

My foot is red or purple when I keep it down, but then goes away when I elevate it. Do I have an infection?

Most likely no. Due to increased swelling your foot may become a different color, usually purple or red, when you put your foot down up to 6-8 weeks after surgery. This is usually accompanied with increase pain and the feeling of blood rushing to your foot. Because you are not moving your foot normally, the veins are not allowing proper return of the blood up the leg. The discoloration should go away once you elevate your foot. If this does not resolve when you elevate your foot, or you have associated fever, chills, warmth of the foot, or drainage of incision sites, please call the office.



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I already have crutches/walker at home. Should I bring this with me to surgery? What about a scooter?

Yes, you may bring these with you to surgery. Either way, a physical therapist from the hospital will evaluate you the day of surgery to ensure that you have the correct assistive devices.

If you have a scooter, we do not recommend bringing this with you to surgery as you may be too unsteady immediately after the procedure to use it safely. Please leave the scooter at home. You may use the scooter as soon as you feel comfortable and steady after the procedure.

I think I will need help after surgery. Who do I contact to make sure I get what I need at home?

If you live at home alone or feel you may need extra assistance after surgery, we are here to help! We will help you contact an HSS social workers/case manager before surgery to help make sure you have the care you need after surgery. Please ask the office how to arrange this.

Is it possible to see a physical therapist before surgery so that they can teach me how to be non-weight bearing and how to go up/down stairs?

Yes. This is incredibly important if you have never been non-weight bearing before or have a lot of stairs. This will be discussed with you prior to surgery and one-time prescription will be given. This can be done close to your home or we have a walk-in clinic on the 2nd floor of the main hospital.

How do I know what time is my surgery and where to go?

Someone from the main hospital will call you the day before surgery with all of this information, usually between 2pm-7pm. They will tell you where to go, what time to be there, what to bring/what not to bring, and what time you will have to stop eating/drinking.

We operate at both the main hospital and the ambulatory center. Please refer to the addresses below.

Please wear comfy sweat pants to surgery as it will be easier to place over your dressing.

I have a problem after surgery, who do I call?

Please call the office at 212-203-0740, Option 3 if there is a problem. If it is after hours, this will be directed to the Emergency Line and will be fielded to Dr. Johnson, the physician assistant, or a foot and ankle Fellow.



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IMPORTANT NUMBERS:

Dr. Johnson Main Office: 212-203-0740, option 3
My HSS Portal Help Desk: 844-269-4509

IMPORTANT ADDRESSES:

Dr. Johnson's office: 420 E 72nd Street, Suite 1B, New York, NY 10021
Main Hospital (Hospital for Special Surgery): 535 E 70th street, NY, NY, 10021
East Side ASC, Ambulatory Surgical Center: 1233 2nd Ave, second floor, NY, NY, 10065
West Side ASC, Ambulatory Surgical Center: 610 West 58th street, second floor, NY, NY 10019