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## Thompson's test for achilles

The Thompson Test is performed when making the diagnosis of a torn Achilles tendon. This should not be confused with the Thomas test, used to assess hip joint problems. Jan-Otto / Getty Images An Achilles tendon tear occurs when the tendon that connects the calf muscle to the heel bone is severed. This injury often occurs during sports activities such as basketball or tennis and is felt by the athlete as a sudden sharp pain directly behind the ankle. Most often, Achilles tendon tears are non-contact injuries. Patients often describe hearing a sudden pop in their ankle and then turning to see if someone kicked them, only to have no one around. Typical symptoms of an Achilles tendon tear include pain behind the ankle joint, swelling of the tendon, and difficulty walking. Some patients know right away what has happened, in others the condition is a little less clear. That is where a good physical examination by an experienced clinician can be helpful. As part of their examination, your healthcare provider will perform the Thompson test. To perform the Thompson test, the patient should lie face-down on the examination table. The foot extend farther than the end of the bed. The examiner then squeezes the calf muscle. This motion, in a normal patient, should cause the toes to point downward as the Achilles pulls the foot. In a patient with a ruptured Achilles tendon, the foot will not move. That is called a positive Thompson test. The Thompson test is important because some people who tear their Achilles are still able to point their toes downwards, although the Thompson test would still be positive. These patients have other muscles and tendons that can work to point the toes down that are not injured (usually the toe flexors or the posterior tibialis). However, even in these patients, the Thompson test will still be positive. Therefore, this is a valuable clinical tool to help make the diagnosis of this condition. There are several options for treatment of a torn Achilles tendon. These options include both surgical and nonsurgical treatments. The best treatment depends on the specific situation and the needs and expectations of the patient. The good news is, that both surgical and nonsurgical treatment of Achilles tendon tears can lead to full recovery, and therefore there are options that can be considered. Most athletic patients are choosing a surgical repair as the recovery does seem to be faster, although even with surgical treatment a full recovery can take 6 months or longer. In addition, as with any surgical procedure, there are risks of surgery that should be considered prior to treatment. The Thompson test is a physical test healthcare providers use to diagnose an Achilles tendon rupture (tear). Healthcare providers sometimes call it the calf squeeze test. A provider will squeeze your calf muscle on the back of your lower leg to see if your heel moves. Usually, your heel will move a little with your calf muscle because your Achilles tendon connects it to your heel bone (calcaneus). If your heel doesn't move, your Achilles tendon may be torn. When is it performed? A healthcare provider will perform a Thompson test if they think you might have a ruptured (torn) Achilles tendon. The Thompson test is an in-office physical exam, which means your provider can perform it without any special equipment or a separate appointment. It's usually part of a preliminary exam if you have symptoms of an Achilles tendon tear (feeling or hearing a pop in your ankle, pain or swelling), especially if you've experienced a sports injury. You'll probably also need at least one type of imaging test to confirm the rupture. The Thompson Test is performed when making the diagnosis of a torn Achilles tendon. This should not be confused with the Thomas test, used to assess hip joint problems. 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You may restrict certain permissions, provided you clearly state any restrictions you apply. You may not apply legal terms or technological measures that restrict others from doing anything that the license permits. The public domain elements of this work are hereby released into the public domain. No copyright is claimed for these elements. You may freely reproduce, modify, distribute, and otherwise use these elements for any purpose, without restriction. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. The Thompson test examines the integrity of the Achilles tendon. It is performed as a clinical test to identify the presence of a complete Achilles rupture. Calf Muscles/ Triceps Surae: The triceps surae aka "three-headed [muscle] of the calf" is a pair of muscles located at the calf - the two-headed gastrocnemius and the soleus. These muscles both insert into the calcaneus, the bone of the heel of the human foot, and form the major part of the muscle of the posterior leg, commonly known as the calf muscle. The triceps surae is connected to the foot through the Achilles tendon, and has 3 heads deriving from the 2 major masses of muscle. The superficial portion (the gastrocnemius) gives off 2 heads attaching to the base of the femur directly above the knee. The deep (profundus) mass of muscle (the soleus) forms the remaining head which attaches to the superior posterior area of the tibia. Special Test: Thompson's Test / Simmonds' Test PURPOSE: to test for 3rd degree strain or rupture of the Achilles tendon Thompson's Test PROCEDURE: Patient is prone , feet over the edge of the table, legs relaxed Squeeze the affected gastrocnemius and soleus muscles Thompson's Test POSITIVE TEST: Absence of plantarflexion when the muscles are squeezed \*\* When the achilles tendon is intact and the calf is squeezed, the ankle will plantar flex. \*\* It is still possible for the m. plantaris and deep toe flexors to also provide plantar flexion even if the Achilles tendon is ruptured[2]. To be sure that the patient has a complete Achilles tendon rupture, there are three additional clinical signs that may be observed to corroborate the diagnosis On careful inspection, with the patient prone and both ankles fully relaxed, the foot on the ruptured side hangs straight down due to the absence of the tendon tone There may be a palpable gap to the insertion into the calcaneus. The strength of the plantar flexion is markedly reduced Diagnosis: A positive Thompson's test indicates a complete Achilles tendon rupture. When lying on your stomach with your knees bent and your feet hanging off the edge of a table, your doctor will gently pull down on your heels. When you walk, run, or engage in physical activity, though it's your largest, strongest, and thickest tendon in your body, it's prone to injury, and a rupture can cause significant pain and affect your daily activities.The Achilles tendon rupture test is an effective diagnostic tool to identify a ruptured Achilles tendon. Test variations include the Matthes test and the Simmonds-Thompson test, also called the calf and ankle squeeze tests.Prompt diagnosis is vital if you have an Achilles tendon rupture. Understanding the available diagnostic and treatment options is essential to healing and resuming your routine quickly.Continue reading to learn more about the Achilles tendon rupture test, common symptoms, and treatment options.Consult a healthcare professional to do the Achilles tendon rupture test. Usually, they'll test each leg to compare mobility and strength. During the Matthes test, difficulty standing on your tiptoes or displaying a limited range of motion in your ankle indicates an Achilles tendon rupture.During the Simmonds-Thompson test, you'll lie face down on an examination table, hanging your feet over the edge, relaxing your feet and calf muscles. Your clinician will firmly squeeze your calf muscle above your ankle and observe foot movement. If your Achilles tendon is intact, squeezing your calf muscle will cause your foot to move downward. But if your Achilles tendon has a rupture, movement won't occur.If you have an Achilles tendon rupture, getting medical attention as soon as possible is important.Early treatment can promote proper healing and prevent complications.Performing an Achilles tendon rupture test requires experience, proper technique, and anatomical knowledge. While the tests are accurate, healthcare professionals can't rely on them as the sole diagnostic tool. They may need to perform imaging tests, such as an MRI or ultrasound, to confirm the diagnosis.The treatment for an Achilles tendon rupture depends on the severity of your injury and individual factors, such as your age, activity level, and overall health.Severe tears or complete ruptures may require surgery, while typically mild tears are treated conservatively with rest, ice, and compression. The type of surgery depends on the severity and location of your injury. Post-surgery, you'll wear a cast or walking boot for immobilization. Healthcare professionals may recommend physiotherapy to elite athletes, as 2020 research suggested it may lead to greater strength improvements and better functional outcomes after Achilles tendon surgery. After surgery, you'll undergo rehabilitation to rebuild strength and flexibility. The outcome of your routine could vary depending on your anatomy and the extent of your rupture, so it's important to follow your treatment plan closely. This can allow your tendon to heal properly and prevent complications, including chronic pain and weakness.The outlook for an Achilles tendon rupture depends on the severity and treatment approach. Early diagnosis and treatment help ensure a good recovery after surgical and nonsurgical treatment.Generally, the outlook is positive, and you can return to your usual activities within 6 to 12 months. The recovery time following nonsurgical treatment may last longer. It can take around 12 weeks for partial tears and up to 6 months for complete ruptures.There's some controversy surrounding surgical and nonsurgical outcomes. For example, different 2020 research suggested nonsurgical treatment links to higher re-rupture rates than surgical treatment. But shortening the cast immobilization period and early functional rehabilitation may help prevent re-rupture.A 2020 study found no difference between surgical and nonsurgical outcomes in terms of satisfaction and re-rupture rates. An Achilles tendon rupture test is a medical diagnostic test and requires a healthcare professional to perform it. They have the training, experience, and extensive anatomical knowledge to accurately perform the test, make a diagnosis, and recommend treatment.You may hear a popping or snapping sound at the time of injury. Additional symptoms include stiffness, swelling, and tenderness. It may be difficult and painful to bear weight on your leg, walk, and stand on or flex your toes. Climbing stairs or an incline may be especially challenging. Standing or walking with a partial Achilles tendon rupture is possible, but it can be quite painful and may increase your risk of further injury.Your mobility and ability to bear weight depend on your injury severity and pain tolerance.The Simmonds-Thompson test, also called the Thompson test or calf squeeze test, involves lying on your stomach with your feet hanging off the table and relaxing your ankles. A healthcare professional squeezes your lower calf above your ankle and observes whether your foot drops down. A positive result indicates a complete Achilles tendon rupture. The Thompson test is a physical test healthcare providers use to diagnose an Achilles tendon rupture (tear). Healthcare providers sometimes call it the calf squeeze test. A provider will squeeze your calf muscle on the back of your lower leg to see if your heel moves. Usually, your heel will move a little with your calf muscle because your Achilles tendon connects it to your heel bone (calcaneus). If your heel doesn't move, your Achilles tendon may be torn. When is it performed? A healthcare provider will perform a Thompson test if they think you might have a ruptured (torn) Achilles tendon. The Thompson test is an in-office physical exam, which means your provider can perform it without any special equipment or a separate appointment. It's usually part of a preliminary exam if you have symptoms of an Achilles tendon tear (feeling or hearing a pop in your ankle, pain or swelling), especially if you've experienced a sports injury. You'll probably also need at least one type of imaging test to confirm the rupture. The Thompson Test is performed when making the diagnosis of a torn Achilles tendon. 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