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### Causes

ACL injury occurs when your knee gets twisted or during a hard landing from a jump. It can also happen with:

- Sudden stops or changes in direction
- Sidestepping or pivoting
- Direct contact



## Risk Factors

ACL injuries are more common in women. Other factors that increase your chance of ACL injury include:

- Weak knee structure
- Muscle strength imbalance between the quadriceps and hamstrings
- Playing sports that require sudden changes of direction and deceleration
- · Use of incorrect technique for cutting, planting, pivoting, or jumping
- Previous injury or reconstructive ACL surgery



## Symptoms

Symptoms may include:

- A popping sound at the time of the injury
- Pain and swelling in the knee
- Loss of full range of motion
- Weakness or instability in the knee
- · Difficulty walking



# Knee Conditions: ACL TEAR



## Diagnosis

You will be asked about your symptoms and how you injured the knee. A physical exam will be done.

- Your knee will need to be viewed. This can be done with:
  - X-ray
  - MRI scan
  - Arthroscopy

Ligament sprains are graded according to their severity:

- Grade 1-Mild ligament damage
- Grade 2-Partial tearing of the ligament
- Grade 3-Complete tearing of the ligament



#### Treatment

Talk with your doctor about the best treatment plan for you. Recovery time ranges depending on the grade of the injury. Physical Therapy treatment may include:

- Exercises to help promote recovery. Specifically, therapists will design a program to strengthen the whole leg as well
  improve its range of motion.
- Balance exercises to allow you to return to your daily activities (including work and sports) while decreasing your risk of falling and reinjuring yourself
- · Hands-on treatment to keep your knee joint from becoming stiff
- Ice and vasopneumatic pressure to reduce any swelling and pain



### Prevention

To reduce your chance of injuring the ACL, take these steps:

- Plyometrics, a form of jumping exercises, can be used to train and strengthen the leg muscles for jumping and landing.
- · When jumping and landing or turning and pivoting, your hips and knees should be bent, not straight.
- Strengthen both the quadriceps and the hamstrings.
- Maintain proper technique when exercising or playing sports.

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