What is a knee injury?

Knee injuries happen to people of all ages. They can be caused in many ways and affect many of the different structures that support the knee. Common knee injuries include sprains (over-stretching of the ligaments), strains (overstretching of muscles and tendons), tearing of the cartilage that lines the joints, and irritation of the kneecap joint.

What are the symptoms?

When soft tissues such as ligaments and muscles are damaged, there is pain, swelling and sometimes bruising. Pain is usually as its worst in the first two to three days.

Treatment

You may need an x-ray to check if you have a broken bone (fracture). In some cases a diagnosis is not possible until the swelling goes down.

You may be advised to wear a leg brace (splint) for a period of time, or avoid particular movements or activities until your knee heals.

Significant injuries may require an operation to fix torn ligaments or cartilage. Most injuries, however, do not need surgery.

If you have pain, simple pain medication may help (such as paracetamol or codeine). Anti-inflammatory medication can also help reduce swelling. Ask your health-care professional what is best for you.

First aid for knee injuries

The initial treatment (first 72 hours) for ankle sprains is based on the ‘RICE’ principles: Rest, Ice, Compression and Elevation.

Rest

Avoid activities that cause pain. If you are unable to put weight on your leg comfortably, use crutches.

Ice

Wrap ice cubes in a damp towel, use frozen peas or a sports ice pack in a towel. Apply to the injured area for 15-20 minutes every one to two hours while you are awake. Never apply ice directly to the skin.

Compression

Apply a firm bandage from the toes to above the ankle. Ensure the bandage does not increase your pain or restrict blood flow to your toes.

Elevation

When resting, raise your foot so it is above the level of your heart.

In the first 48-72 hours, Avoid ‘HARM’ – heat, alcohol, re-injury and massage.

Heat

Increases blood flow and swelling.

Alcohol

Increases blood flow and swelling, and can make you less aware of aggravating your injury.

Reinjury

Protect your joint until it has healed adequately.

Massage

Promotes blood flow and swelling. Massage can increase damage if begun too early.

Prevention

There are simple measures you can take to reduce your risk of a knee injury.

• Warm up before exercise.
• Use activity appropriate footwear and equipment.
• Take care when exercising on uneven or slippery ground.
• Follow the directions of your health care professional.
What to expect

As the pain settles down after the first few days, gradually increase your level of activity. Be sure to keep your unaffected joints, such as your ankle and hips, moving as much as possible.

Most people fully recover in one to six weeks. If you are no better after a week, see your local doctor or physiotherapist. For more significant injuries, a physiotherapist can provide assistance with healing and rehabilitation.

Exercises

It is important to maintain flexibility and strength as you recover by doing the gentle exercises, shown below. Perform these exercises only if directed by your health care professional.

Exercise 1. Squeeze the back of your knee down into the ground and tighten your thigh muscles. Hold for five seconds. Repeat ten times every few hours.

Exercise 2. Bend your knee and dig your heel into the ground to tighten your thigh muscles. Hold for five seconds. Repeat ten times every few hours.

Exercise 3. Bend your knee up and down as far as comfortable. Repeat ten to 20 times every few hours.

Seeking help

Cabrini Emergency Department (ED) is staffed by experienced emergency doctors and nurses 24 hours a day, 7 days per week. If you have any questions about your ED treatment our qualified ED staff can be contacted on 9508 1500 at any time. If you need to return to Cabrini ED for ongoing care we would be glad to take care of you again and if this occurs within a week of your initial consultation the doctor’s fee will be bulk-billed.

In a medical emergency return to Cabrini ED if it is safe to do so or go to the nearest hospital emergency department or call an ambulance (dial 000).

See your local doctor or return to Cabrini Emergency Department if you have not improved at all after a week, especially if you are still unable to put weight on your leg.

Want to know more?

- Contact Cabrini ED on 9508 1500
- Ask your local doctor or health care professional.
- Visit the Better Health Channel
  www.betterhealth.vic.gov.au

Notes:

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