Anterior knee pain (patellofemoral pain)



Sometimes the kneecap is held slightly out of position within the groove which can cause pain. The pain usually begins gradually, however on occasions it may occur suddenly following a specific incident.

The patella or knee cap is the small bone in the front of your knee. It normally fits into a groove on the thigh bone. It moves up and down in this groove as you bend and straighten your knee. There is a layer of cartilage where the two bones meet which allows them to glide and slide and avoiding them rubbing together.

Anterior knee pain is also known as patellofemoral pain.

What causes anterior knee pain?

There are a number of factors that can cause anterior knee pain:

- Muscle tightness or weakness in the hip, knee or ankle.
- Altered biomechanics, for example, foot position.
- Overuse, for example, sporting activities.
- Kneeling on hard surfaces.

What are the symptoms?

You may experience some of the following:

- Pain beneath or around the kneecap.
- Clicking or grating of the knee.
- Pain after prolonged sitting.
- Pain worse on stairs, kneeling or squatting.
- Pain on running, especially downhill.
- Occasional swelling.
- A feeling of locking in the knee.
- Some weakness or feeling of giving way.

What tests can be done?

If you see a healthcare professional they will ask you questions an carry out a clinical examination to help establish the cause of your problem.

What are my treatment options?

Treatment options include:

- Reduce or stop any activities that produce your pain.
- Apply ice packs for up to 10 minutes to relieve your pain.
- Identify any changes in your lifestyle that may have coincided with the onset of your pain, for example, wearing different shoes, a new activity). Try stopping the activity to see if it helps your pain.
- Lose weight.

You can find more <u>information about treating muscle</u>, <u>bone and join problems</u> in the NHS inform MSK Zone.

Reduce muscle tightness by stretching

Put your sore leg on a step or just in front, and:

- Lean forward until you feel a stretch up the back of your leg.
- Hold for 20 seconds and repeat 3 times, 4 times daily

Strengthening exercises

Lying on your good side, with your toe pointing forward:

- Lift your leg 20cm off the bed
- Hold for 5 seconds then relax
- Repeat 10 times, 2 times daily

You can find some simple exercise to get you started in the Musculoskeletal (MSK) Zone on NHS inform.

Further information

If you have a muscle, bone or joint problem, visit the <u>MSK Zone</u> on NHS inform for self-management advice and exercises to get you moving normally, and safely.