

Osteochondritis Dissecans (OCD)

This leaflet describes your knee injury and the treatment options (including surgery).



Osteochondritis Dissecans

This is a rare condition affecting the knee - estimated at 15-30 cases per 100,000 people. It occurs most often in adolescents and young athletes.

The end of the bones, where a joint is formed, is covered with articular cartilage. This provides a smooth slippery surface that allows the joint to move smoothly.

The problem occurs when the bone underlying the articular cartilage is injured and the blood flow reduced.

Being on a weight-bearing surface, the damaged area is under constant stress and does not get time to heal. If left untreated

the damaged area may lead to arthritis later in life.

Initially, the pain is often a mild aching, but this gradually worsens over time. Moving the knee can become painful and it may be swollen. The pain may eventually stop you putting full weight through the knee when walking.

As the condition worsens, the area of damaged bone may become detached and form a 'loose body'. The loose body can float around the inside of the knee joint and may cause the knee to give way or lock.

X-rays and MRI scans are used to diagnose the problem and guide treatment.

Non-surgical treatment

This can take 10-18 months and requires you to stop doing everything that causes pain in your knee (typically sports and often all weight-bearing activity).

It may mean you use crutches for a while when your knee is sore. As pain settles then you can place more weight through the leg.

Regular scans may be required to check how well the knee is healing and to see if surgery is needed.

If the lesion becomes partially or totally detached, or the knee fails to settle after 18 months, then surgery is required.

Operation

It is possible to perform a 'keyhole' operation (arthroscopy), which allows your consultant to look inside your knee joint using a special camera.

This is possible in approximately 50% of patients; the others need an open procedure (involving a wound approximately 10 cm long on the front of the knee) which is closed with staples.

How is it done?

The procedure is usually carried out under general anaesthetic and involves reattachment of the fragment using metal pins or screws to hold the fragment in place.

If the fragment does not fit perfectly into place anymore then it may need to be removed. The resulting hole in the cartilage can be treated with a cartilage resurfacing technique.

Benefits

The following should be improved following your operation, but remember this will not happen immediately. **It can take 2-6 weeks for the knee to become less swollen.**

- Reduction of pain.
- Reduction of swelling.
- Your knee should stop giving way or locking.
- Improved function (able to return to work and / or sport).

Risks

- 1 in 15 chance of further surgery if this technique fails.
- 1 in 15 chance of a stiff knee requiring further operation to regain movement.
- 1 in 100 chance of a portal infection.
- 1 in 500 chance of septic arthritis (infection deep within the knee).

- 1 in 100 chance of complex regional pain syndrome (an abnormal pain reaction to any surgery, which may need prolonged physiotherapy or a pain clinic appointment).
- 3 in 100 chance of deep vein thrombosis (DVT) – clot in the calf
- Pulmonary Embolism (PE) – clot in the lungs. Very rare following keyhole surgery to the knee but potentially life threatening.

After the operation

- You will wake up in the recovery area of the theatre.
- You may have 2 or 3 small wounds, which will be covered with a small dressing or a 10cm long wound on the front of your knee.
- You will have a compressive wool and crepe bandage on your knee.
- It is normal for your knee to be a little sore and swollen for the first 48 hours.
- **You will need elbow crutches.**
- You will also probably be allowed to go home on the day of your operation and you will be given some painkillers on discharge from hospital. It is important that someone will be with you overnight after the operation; otherwise you will have to stay in hospital overnight.
- You will be referred to Physiotherapy.
- **Putting weight through your leg is not allowed until 6 weeks after surgery,** and can be gradually increased as long as the knee is comfortable.
- For the first few days rest as much as possible with your leg elevated and move feet and ankles up and down to help your circulation.
- **No impact activities or sports are permitted until the x-rays show healing.** This can take 3-9 months. You will have an x-ray at each visit to clinic to assess the healing.

- A second operation will be needed to remove the metal pins or screws. The removal of the fixation material is done by keyhole surgery, if possible. If not, an open procedure may be used. It is usually a day case operation. It can take 10-14 days for the wounds to heal and then a return to all desired activities is allowed.
- Most patients return to sports 6-12 months after their second operation.

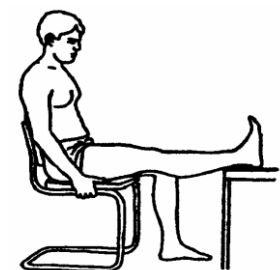
Exercises

The following (non-weight bearing) exercises should be started immediately and continued at home. These should be performed 4 times each day.



Sitting on the bed, place a sock on your foot. Place a slippery board/tray under your foot and a band around it. Bend your knee as far as

possible. Gently pull the band to bend a little more. Hold 5 seconds. Repeat 10 times.



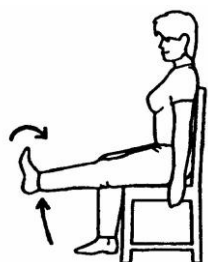
Sit on a chair with the heel of your operated leg on a stool. Allow your knee to straighten as much as possible for 10 seconds. Repeat 10 times. You can gently

press down on your knee with your hands to stretch a little further.



Lying on your back. Lift your leg 6 inches, keeping your

knee straight. Hold 5 seconds. Repeat 10 times.



Sit on a chair. Pull your toes towards you, tighten your thigh muscle and straighten your knee. You can add a small weight over the ankle to make the muscle

If at any times your knee becomes acutely painful, you can take pain-killing tablets and it may be worth using ice to reduce your symptoms.

To do this, make sure the ice is in a sealed bag, and then wrapped in a damp towel. Alternatively a bag of frozen peas wrapped in a damp towel may be used. Apply the ice for no longer than 10 minutes at any one time. You can use ice every hour if necessary.

You will be seen around 2 weeks after the operation, as an outpatient, by your consultant's orthopaedic team.

Staples/stitches will be removed now (if you have them).

Crutch walking: Crutches will be required for the first 6 weeks. You must avoid putting weight through your operated leg.

Stairs: Keep both crutches or stick in one hand, hold the banister with your other hand.

Showering: You may shower provided that you keep the affected area water tight, i.e. with a plastic bag or cling film around your leg and sealed. If the dressing becomes wet or soiled, please replace it with a clean dry one.

Return to work: For desk jobs this could be 14 days depending on pain, swelling and mode of transport. For many jobs it may take 6-8 weeks as you will not be allowed to place weight through your operated leg for 6 weeks.

Driving: Return to driving can vary considerably from person to person. Most people are able to drive 6-8 weeks after surgery. However, it is advisable that the following are achieved before trying to drive:

- You should be walking without crutches with a minimal limp.
- You should be able to safely perform an emergency stop.

- You should feel confident that you are in full control of your car.

If you drive an automatic car and your left knee was operated on you can drive once the wounds have healed.

You should notify your insurance company of the procedure that has been undertaken to ensure that your cover is valid. For further information follow this web link: www.dvla.gov.uk

Flying: Is not permitted for 8 weeks following surgery due to a higher risk of developing a blood clot. For further information follow the web link below: <http://www.nhs.uk/chq/Pages/2615.aspx?CategoryID=69>

Contact Details:

Ward 16

Tel: 0151 529 3914 / 3527

Fracture Clinic

Tel: 0151 529 2554 (Mon – Fri)

Please leave a message on the answer machine stating your name and contact number and a member of staff will return your call.

Phil Ellison

Lower Limb Extended Scope Practitioner

Tel: 0151 529 3335 (Mon - Fri)

VTE (blood clots)

VTE is a collective term for two conditions:

- **DVT** (deep vein thrombosis) – this is a blood clot most commonly found in a deep vein that blocks the flow of blood.
- **PE** (pulmonary embolism) – a potential fatal complication where a blood clot breaks free and travels to the lungs.

Whilst you are less mobile, especially during the first few weeks following your procedure, the risk of VTE is higher because of your immobility.

Your consultant may prescribe you a daily injection of heparin to help thin your blood and these should last approximately 14

days. If this is needed, you will be shown how to inject this drug yourself.

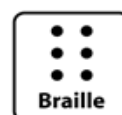
Symptoms:

- Swelling – you will have some swelling due to your surgery but if you have any concerns please call for advice
- Pain – any new pain we want to know about
- Calf tenderness
- Heat and redness compared with the other leg
- Shortness of breath
- Chest pain when breathing in

Things you can do to prevent VTE

- Move around as much as possible. Be sensible though, short and regular movement is best.
- Drink plenty of water to keep yourself hydrated
- We strongly advise you not to smoke – this will have been discussed in pre op but we can also refer you to our smoking cessation team within the Hospital.
- Move your ankle around as much as possible to keep your calf muscle pumping

Small preventative measures can have a huge impact on your recovery.



If you require a special edition of this leaflet

This leaflet is available in large print, Braille, on audio tape or disk and in other languages on request. Please contact:

Tel No: 0151 529 2906

Email: interpretationandtranslation@liverpoolft.nhs.uk