

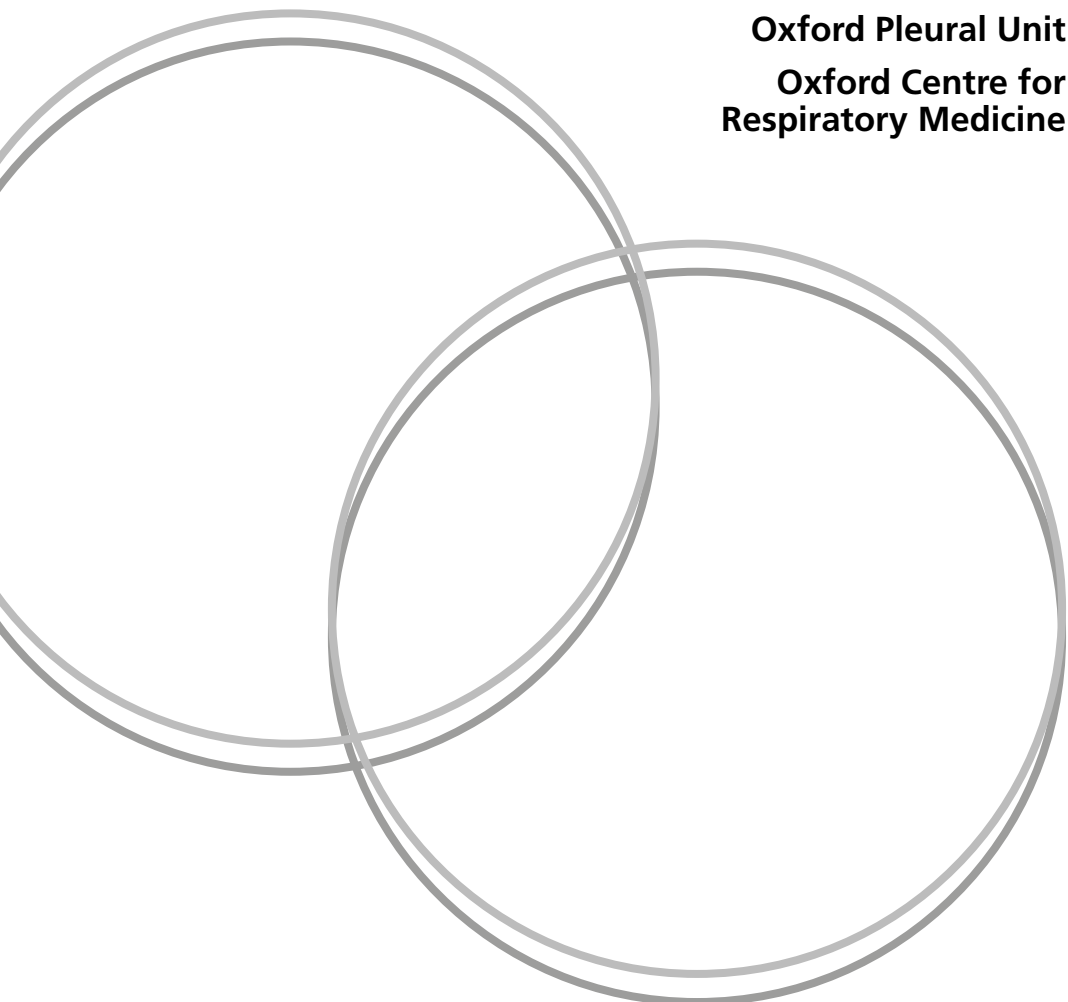


Oxford University Hospitals
NHS Foundation Trust

Indwelling pleural catheter (IPC)

Information for patients

Oxford Pleural Unit
Oxford Centre for
Respiratory Medicine



Provisional appointment date and time

Important information about your IPC insertion

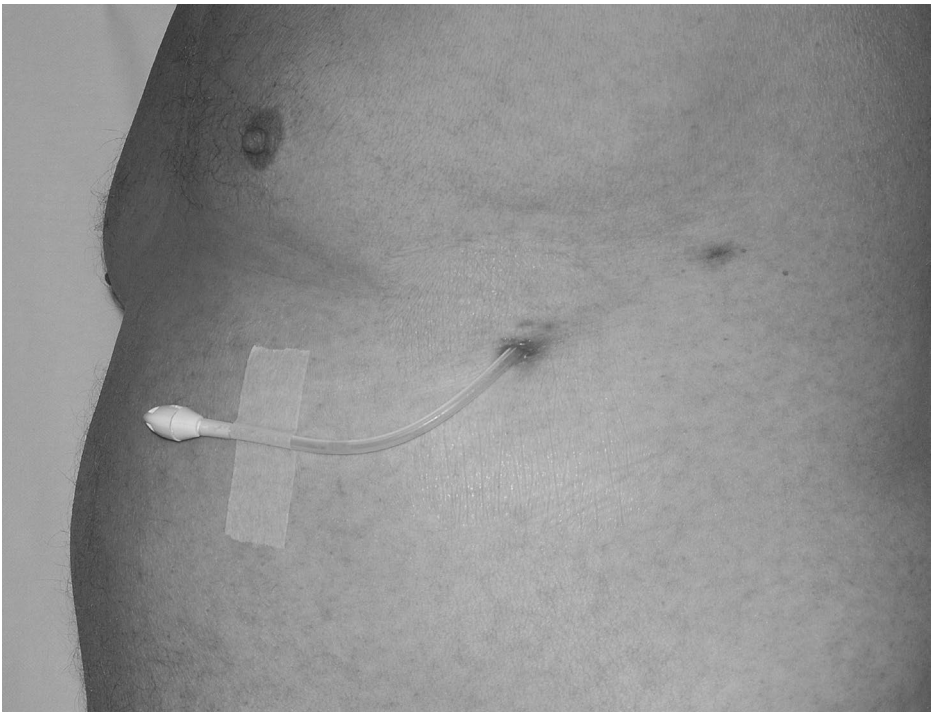
- Tell your doctor about all the medication you take and any medical conditions or any drug allergies you have. Tell us if you are on any blood thinning medications – these are normally stopped before your procedure. It is important that you continue to take any other medications (including those for high blood pressure).
- Arrange for someone to take you home from the procedure. You should also not be alone overnight after your procedure.

What is an indwelling pleural catheter (IPC)?

An IPC is a specially designed small tube used to drain pleural fluid from around your lungs easily and painlessly, whenever needed. It avoids the need for repeated uncomfortable injections and chest tubes every time the fluid needs to be drained. The drainage can be performed either by you or a friend/relative, or by a district nurse.

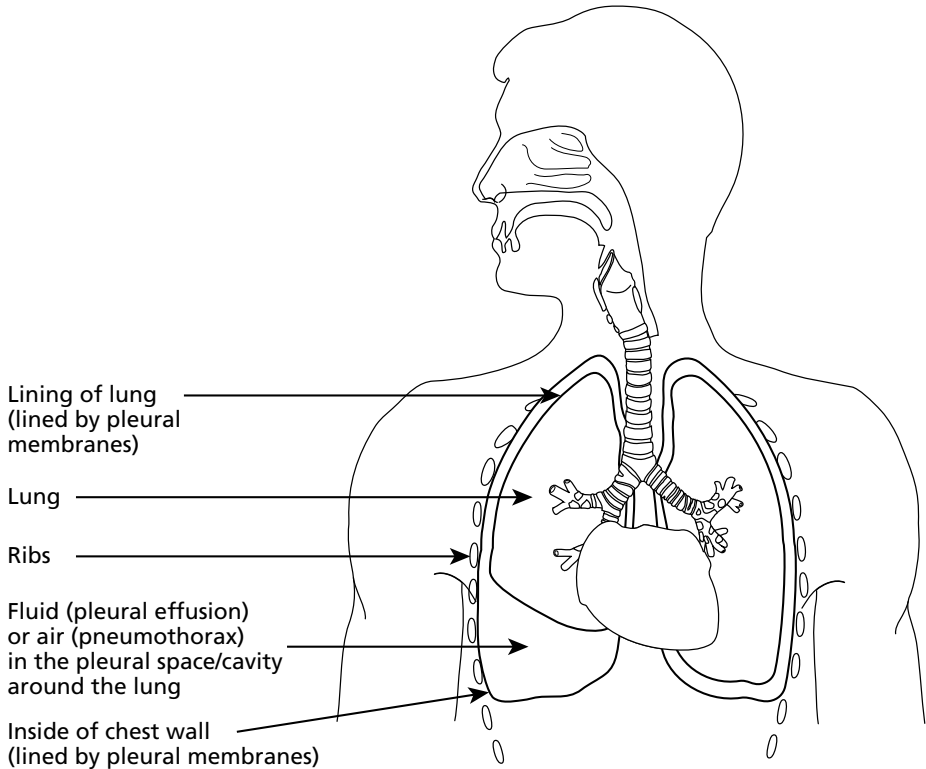
The IPC is a soft flexible tube, thinner than a pencil, which will remain inside your chest. The end of the tube passes out through your skin. There is a valve on the outer end of the tube to prevent fluid leaking out.

Recently inserted IPC



Why do I need an IPC?

Within your chest there is an area called the pleural space. This is made up of two thin membranes – one lining your lung and the other lining your chest wall. Between these layers there is usually a very small space which is almost dry. In your case, fluid has collected in this space so that your lung cannot work properly, making you breathless.



Draining away the fluid using needles and syringes helps relieve breathlessness for a time, but the fluid will often re-collect, making you breathless again. Whilst it is possible to have repeated drainage of fluid in this way, it can be uncomfortable and means many trips to hospital. The IPC is a way of allowing fluid to be repeatedly drained without you having to come to hospital to have repeated uncomfortable fluid drainage procedures.

Is there an alternative treatment that I can have instead of the IPC?

Your doctors will advise you on different treatment options. Making these decisions can be difficult and this website explains details of this and other possible treatments to help you make a decision – <https://mypleuraleffusionjourney.com>.

How should I prepare for my IPC?

Please make sure we have your correct telephone number. We will contact you by telephone a few days before your procedure to confirm that you are still able to come. If we are unable to reach you, your appointment will be given to someone else who is waiting for this procedure.

Please let us know if you may be pregnant, as this may affect the medications we use for the procedure.

On the day of the procedure, before we insert the IPC, we will need details of **all** your medications (including any over the counter remedies), allergies and any medical conditions. **It is important to let us know in advance if you take blood thinning medications, as we temporarily stop these before your procedure.**

You should take all your other medications as usual on the morning of the procedure.

If you take medication for high blood pressure, it is particularly important that you continue taking your tablets.

We would also ask that you get your blood pressure checked at your GP practice two or three days before the procedure, to make sure that it is well controlled.

The tables below explain what to do with your medications. Please contact us if you are not sure what to do.

Blood thinning medications

Medication	Instructions
Warfarin	Do not take for 5 full days before the procedure. You will need an 'INR' blood test 1-2 days before your procedure to make sure your 'INR' is below 1.5, otherwise we will need to cancel your procedure.
Aspirin	Do not take on the morning of the procedure.
Clopidogrel (Plavix) Dipyridamole (Persantin) Ticagrelor (Brilique)	Do not take for 7 full days before the procedure
Apixaban (Eliquis) Dabigatran (Pradaxa) Rivaroxaban (Xarelto) Edoxban (Lixiana)	Do not take for 2 full days before the procedure.
Enoxaparin injections	Full ("treatment") dose injections are stopped 1 full day before the procedure. Low ("prophylactic") dose injections, often given to inpatients, are usually continued as normal

All other medications

Medication	Instructions
All other medications (including those for high blood pressure)	Please take as normal. Clear instructions of any omission or amendment to any prescribed medication will be discussed ahead of planned procedure.

Please bring all of your medications with you when you come for the procedure. You should also bring any glasses that you need for reading. Please do not wear jewellery or nail varnish or bring in any valuables.

What will happen on the day?

Please come to the reception desk at Theatre Direct Admissions, on Level 1 of the John Radcliffe Hospital at the time you have been given.

When you arrive, a nurse will greet you and take you to the recovery area to have your blood pressure, heart rate and temperature checked. They will also ask you questions about your medical history, medications and any allergies you might have.

The procedure will be explained to you again and you will have the opportunity to ask any questions you might have. You will be asked to sign a consent form to confirm you are happy for the procedure to go ahead. The nurses will then ask you to change into a hospital gown.

When your IPC insertion is due to start, you will be shown into the procedure room and will be asked to lie on a procedure bed. Your blood pressure, oxygen levels and heart rate will be monitored using a cuff on your arm, a sensor on your finger and some stickers attached to your chest. You will be given oxygen through a small tube in your nose or a mask covering your nose and mouth to make sure your blood stays at a safe level.

The doctor will do an ultrasound scan to find where best to place the IPC. This involves putting gel onto your chest and using a hand-held device to roll over your skin. The ultrasound uses sound waves to create an image on a screen. It is not painful.

The IPC is usually put into the side of your chest, below your armpit, as this will be more comfortable for you and means you will be able to sleep on your back afterwards.

Once you are resting comfortably, the skin over the area where the IPC will be placed will be cleaned with an alcohol-based liquid (containing cleaner) to kill any bacteria. This fluid often feels cold.

A local anaesthetic will then be injected into your skin, to numb the area where the IPC will go. This may sting to begin with, but the pain will disappear quickly.

Your doctor will then make two small cuts (incisions) in the numb area of skin and gently open a path for the IPC. This should not be painful, although you may feel some pressure or tugging. One cut is for the IPC to pass through your skin, and the second is for it to be passed into your pleural space. The IPC will then be gently inserted.

What are the risks?

In most cases, the insertion of the IPC and its use in treatment is a routine and safe procedure. However, like all medical procedures, IPCs can cause some problems. If this happens, your doctors and nurses can support you and treat them.

Most people get some discomfort from their IPC in the first week. You can take simple painkilling medication to control this.

- Sometimes IPCs can become infected and need treatment, but this is uncommon (affecting about 1 in 50 people). Your doctor will thoroughly clean the area before putting in the IPC, to try to prevent this. You will be given discharge information after the procedure telling you how to look after your IPC.
- Very rarely, during its insertion, the IPC may accidentally damage a blood vessel and cause serious bleeding. This only affects less than 1 in 500 people. Unfortunately, if this does happen it can be a serious problem which will require an operation to stop the bleeding. Very rarely such bleeding can be fatal. During the procedure everything possible will be done to avoid this.

Are there any risks associated with long term IPC use?

Generally, IPCs are fine to be left in place for as long as they are needed.

- The main risk is infection entering the chest through the IPC. This risk is reduced by carrying out good IPC care and hygiene. We will teach you how to look after your IPC, to help prevent an infection.
- Sometimes malignant (cancerous) tissue can affect the area around the IPC. Please let your doctors know if you develop a lump or any pain around your IPC after it is inserted. If this problem does develop, your doctor will advise you on appropriate treatment.

Will it be unpleasant?

The local anaesthetic that is injected into your skin means that you should not feel the drain going in. If needed, we can give you additional painkillers to control any discomfort. If you are still in any discomfort, we can offer you sedation medication, but this should not be necessary.

At the end of the procedure your chest may feel bruised or sore for about a week. Simple painkilling tablets, such as paracetamol and ibuprofen, are usually enough to relieve this discomfort.

What happens after the IPC insertion?

The IPC insertion procedure usually lasts between 30 and 60 minutes. Afterwards, you will be monitored by a nurse in our recovery area for one hour. During this time, we will drain your chest using the IPC. You will also have a chest X-ray to confirm the IPC is in the correct place.

After one hour, provided your X-ray is satisfactory and you feel well, you will need to be collected from **Theatre Direct Admissions** (Level 1, John Radcliffe Hospital) by a friend or relative. On the day, we will call them to update them on the suitable collection time.

It is essential that someone accompanies you home, either driving you home or traveling with you in a taxi. You should not go home on public transport after this procedure. You will need to be taken home by car. This will be more comfortable for you and also quicker for you to return to the hospital if there are any complications on the journey home. You should also not be alone overnight after your procedure in case you feel unwell.

How does the IPC stay in place?

IPCs are designed to be a permanent solution to the problem of pleural fluid (although they can be removed if they are no longer needed). There is a soft cuff around the IPC under your skin, around which your skin heals. This keeps it in position and prevents it from falling out.

Two stitches will be put in when your IPC is inserted. The stitch which has been used to close one of the incisions used to insert the IPC will need to be removed after 7-10 days, whilst the other stitch (the stitch which holds the IPC securely in place) should be removed after three weeks. These stitches should be taken out by your District Nurse.

Who will drain the fluid from my IPC once it is in place?

Drainage of the fluid is a straightforward procedure. There are a number of ways that this can be done. We will arrange for the District Nursing team to drain the fluid in the comfort of your own home. If desired, they can teach you, a relative or a friend to drain the fluid.

We will discuss these arrangements with you further before you are discharged after the procedure.

IPC equipment – bottle and accessories used to drain fluid



How often can I drain fluid and how often do I need to do this?

When your IPC is inserted, most of the fluid from your chest will be removed at the same time. The rate at which the fluid comes back varies; some people need daily drainage whilst others require only weekly drainage or less.

You can drain fluid as often as is needed. We will discuss with you how often this may need to be done.

Can I wash and shower normally?

Initially, after the insertion of the IPC, you will have a dressing covering the area where the IPC comes out of your side. We advise you to keep this dry until the first stitch is removed seven days later. Providing the site is then clean and dry, you will then be able to have a shower as you would normally. After a month it is possible to have a bath or go swimming, as long as you are healing well.

When will the IPC be taken out?

IPCs are designed to remain in position permanently. However, sometimes the fluid drainage from the chest dries up and the IPC is no longer needed. If this happens, the IPC can be removed as a day case procedure (where you go home the same day). There is a small chance of a small fragment of IPC remaining in the space around the lung on removal. This occurs very rarely and usually requires no further action.

What should I do if something happens to the IPC

If you have any problems with the IPC, or if you have any questions, please contact:

Pleural Specialist Nurse/Fellow

Tel: **07769 285 354**

8.00am – 5.00pm (Monday to Friday)

Theatre Direct Admissions (Level 1, John Radcliffe Hospital)

Tel: **01865 221 050** or

01865 221 055

(Monday to Friday, 8.00am to 3.00pm)

Outside these hours please call the Hospital switchboard:

Tel: **01865 741 166**

Ask for either the On-Call Respiratory doctor or the Osler Respiratory Unit.

If you are not staying in hospital as an inpatient, when you are ready to be discharged you can be collected from

Theatre Direct Admissions.

Further information

If you would like an interpreter, please speak to the department where you are being seen.

Please also tell them if you would like this information in another format, such as:

- Easy Read
- large print
- braille
- audio
- electronic
- another language.

We have tried to make the information in this leaflet meet your needs. If it does not meet your individual needs or situation, please speak to your healthcare team. They are happy to help.

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Oxford University Hospitals NHS Foundation Trust
www.ouh.nhs.uk/information

We are grateful to Rocket Medical for providing the photograph used in this leaflet



Making a difference across our hospitals

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