



Epidural pain relief after surgery

This leaflet is for anyone who may benefit from an epidural for pain relief after surgery



Epidural pain relief after surgery

This leaflet explains what to expect if you choose to have an epidural placed for pain relief during and after your operation. It has been written by patients, patient representatives and anaesthetists, working together.

What is an epidural?

An epidural is used for giving pain relief.

It can be used during surgery to supplement a general anaesthetic, and it is continued after the operation for pain control.

The nerves to your lower back pass through an area in your back close to your spine, called the 'epidural space'. When you have an epidural, an anaesthetist uses a needle to place a fine plastic tube (an epidural catheter) into the epidural space.

Local anaesthetic, and sometimes other pain relief drugs, are put through the epidural catheter. This lies close to the nerves in your back. As a result, the nerve messages are blocked. This gives you pain relief, which varies in extent according to the amount and type of drug given. The local anaesthetic may cause some numbness as well as pain relief.

An epidural pump is used to give pain relief drugs continuously through the epidural catheter. The pain relief lasts as long as the pump is running. When it is stopped, full feeling will return within a few hours.

What are the benefits of an epidural?

If your epidural is working properly, you will have better pain relief than with other methods, particularly when you take a deep breath, cough or move about in the bed.

You should need less alternative strong pain relief medicine. This means your breathing will be better, there should be less nausea and vomiting, and you are likely to be more alert.

There is some evidence that other complications of surgery may be reduced, including blood clots in the legs or lung and chest infection. There is also some evidence that you may lose less blood with an epidural, which will reduce your chance of needing a blood transfusion.

What if I don't have an epidural?

It is your choice. Your anaesthetist will tell you if he/she particularly recommends an epidural, and what alternatives there may be.

Other pain relief methods use morphine or similar drugs. These are strong pain relief medicines. These drugs have side effects that include nausea and constipation. Some people become confused when using morphine.

Morphine, or other similar drugs, can be given by mouth, by injection or using a pump that you control yourself (patient-controlled analgesia, commonly known as PCA).

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Alternatively, there are other ways that local anaesthetic can be given – for example, a nerve block.

Every effort will be made to keep you as comfortable as possible.

Can anyone have an epidural?

No. An epidural is not possible for some people. You will need to talk to your anaesthetist if:

- you take blood thinning drugs, such as warfarin
- you have a blood clotting problem
- you are allergic to local anaesthetic
- you have significant deformity of the spine
- you have an infection in your back
- you have had previous surgery on the spine with metalwork in your back
- you have had problems with a spinal or epidural in the past.

How is an epidural done?

Epidurals can be put in:

- when you are fully awake
- with sedation (drugs that make you feel sleepy and relaxed)
- during a general anaesthetic.

Your anaesthetist will talk to you about which might be best for you.

The steps for having an epidural are:

- 1 a cannula (drip) is placed in a vein in your arm for giving fluid
- 2 you will be asked to sit up or lie on your side. You will be helped to bend forwards, curving your back as much as you can
- 3 a small injection of local anaesthetic is given to numb the skin
- 4 a needle is used to place a thin plastic catheter (tube) into the epidural space in your back. The needle is removed, leaving only the catheter in your back.

How will this feel?

The local anaesthetic injection in the skin will hurt briefly. There will then be the feeling of pushing, but usually no more than discomfort as the needle and catheter is inserted.

Occasionally, a sharp feeling, like an electric shock, is felt. If this happens, it will be obvious to your anaesthetist. They may ask you where you felt it.

A sensation of warmth and numbness gradually develops. For some types of epidural, your legs may feel heavy and become difficult to move.

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Overall, most people do not find these sensations to be unpleasant, just a bit strange. Feeling and movement will return to normal when the epidural is stopped.

Side effects and complications

People vary in how they interpret words and numbers. This scale is provided to help.

				
Very common	Common	Uncommon	Rare	Very rare
1 in 10 Someone in your family	1 in 100 Someone in a street	1 in 1,000 Someone in a village	1 in 10,000 Someone in a small town	1 in 100,000 Someone in a large town

Very common side effects

Low blood pressure

It is normal for the blood pressure to fall a little when you have an epidural. Your anaesthetist will use fluids and drugs to correct it.

Inability to pass urine

The nerves to the bladder are affected by the epidural. A catheter (tube) is inserted into the bladder to drain away the urine. This is often needed after major surgery with or without an epidural.

Itch

This is a side effect of the pain relief drugs that may be used in your epidural. Anti-histamine drugs help, or the drug in the epidural can be changed.

Feeling sick

This is less common with an epidural than with other pain relief methods. It is treated with anti-sickness medicines.

Inadequate pain relief

The epidural may not relieve all your pain. Your anaesthetist or the pain relief nurses looking after you will decide if it can be improved or if you need to switch to another pain relief method.

Common side effects

Headache

Headaches happen quite often after surgery. It is possible to get a severe headache after having an epidural. This is because the needle used to place the epidural inadvertently punctured the bag of fluid that bathes the spinal cord. A small amount of fluid leaks out, causing a headache.

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You will be aware of a severe headache that is worse if you sit up and relieved by lying flat. The staff looking after you should alert the anaesthetic team immediately. You may need specific treatment for the headache. For more information, please read the leaflet:

www.rcoa.ac.uk/document-store/headache-after-epidural-or-spinal-anaesthetic

Uncommon complications

Slow breathing

Some drugs used in the epidural can cause slow breathing or drowsiness, which requires treatment.

Nerve damage: temporary

Uncommonly, the needle or epidural catheter can damage nerves. This can give loss of feeling or movement in a large or small area of the lower body. In most people this gets better after a few days, weeks or months.

Rare or very rare complications

Nerve damage: permanent

Permanent nerve damage by the needle or the catheter is rare. A study has shown it happens in between 1 in 6,000 and 1 in 12,000 epidurals used for surgery. Also rarely, this can happen for other reasons during surgery, related to the surgery itself or for other medical reasons unrelated to the epidural. You can find more information about this from the leaflet below:

www.rcoa.ac.uk/document-store/nerve-damage-associated-spinal-or-epidural-injection.

Catheter infection

An infection can occasionally develop around the epidural catheter. If this happens, it will be removed. It is rare for the infection to spread deeper than the skin. Antibiotics may be necessary or, rarely, emergency back surgery. Disabling nerve damage due to an epidural abscess is very rare.

Other complications

Convulsions (fits), severe breathing difficulty, permanent paraplegia (loss of use of one or more limbs) or death are very rare.

The risk of complications should be balanced against the benefits and compared with alternative methods of pain relief. Your anaesthetist can give you more information and help you understand the relative risks.

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Questions you may like to ask your anaesthetist

- 1 Why are you recommending an epidural for me?
- 2 What are the advantages and disadvantages of an epidural for me?
- 3 What about the alternatives?
- 4 Who will do my epidural?
- 5 Have you often used this type of pain relief?
- 6 Do I have any special risks?
- 7 How will I feel afterwards?
- 8 How will I feel afterwards if I don't have an epidural?

You can find more information leaflets on the College website www.rcoa.ac.uk/patientinfo. The leaflets may also be available from the anaesthetic department or pre-assessment clinic in your hospital.

Risks associated with your anaesthetic

The following are leaflets about specific risks associated with having an anaesthetic or an anaesthetic procedure. They supplement the patient information leaflets listed above and are also available via the College website: www.rcoa.ac.uk/patientinfo.

- Feeling sick.
- Sore throat.
- Shivering.
- Damage to teeth, lips and tongue.
- Damage to the eye during general anaesthesia.
- Post-operative chest infection.
- Becoming confused after an operation.
- Accidental awareness during general anaesthesia.
- Serious allergy during an anaesthetic (anaphylaxis).
- Headache after a spinal or epidural injection.
- Nerve damage associated with having an operation under general anaesthetic.
- Nerve damage associated with a spinal or epidural injection.
- Nerve damage associated with peripheral nerve block.
- Equipment failure.
- Death or brain damage.



Royal College of Anaesthetists



Tell us what you think

We welcome suggestions to improve this leaflet. If you have any comments that you would like to make, please email them to patientinformation@rcoa.ac.uk

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