Inpatient Pain Service/ Anaesthesia

Epidurals for pain relief after surgery

This leaflet is for anyone who may benefit from an epidural for pain relief after surgery. We hope it will help you to ask questions and direct you to sources of further information. This booklet explains what to expect when you have an epidural anaesthetic for pain relief after your operation. This information has been taken from: www.youranaesthetic.info

Introduction

This leaflet describes what happens when you have an epidural, together with any side effects and complications that can occur. It aims to help you and your anaesthetist make a choice about the best method of pain relief for you after your surgery.

What is an epidural?

The nerves from your spine to your lower body pass through an area in your back close to your spine, called the "epidural space".

- An epidural is done by injecting local anaesthetics through a fine plastic tube called an epidural catheter into this epidural space. As a result, the nerve messages are blocked. This causes numbness, which varies in extent according to the amount of local anaesthetic injected.
- An epidural pump allows local anaesthetic to be given continuously.
- Other pain relieving drugs can also be added in small quantities.
- The amounts of drugs given are carefully controlled.
- You may be able to press a button to give a small extra dose from the pump. Your anaesthetist will set the pump to limit the dose which you can give, so overdose is extremely rare.
- When the epidural is stopped, full feeling will return.
- Epidurals may be used during and/or after surgery for pain relief.

How is an epidural done?

Epidurals can be put in:

- when you are conscious
- when you are under sedation (when you have been given a drug which will make you drowsy and relaxed, but still conscious)
- or during a general anaesthetic.
These choices can be discussed further with your anaesthetist.

1. A needle will be used to put a thin plastic tube (a ‘cannula’) into a vein in your hand or arm for giving fluids (a ‘drip’).
2. If you are conscious, you will be asked to sit up or lie on your side, bending forwards to curve your back.
3. Local anaesthetic is injected into a small area of the skin of your back.
4. A special epidural needle is pushed through this numb area and a thin plastic catheter is passed through the needle into your epidural space. The needle is then removed, leaving only the catheter in your back.

Your epidural

What will I feel?

- The local anaesthetic stings briefly, but usually allows an almost painless procedure.
- It is common to feel slight discomfort in your back as the catheter is inserted.
- Occasionally, an electric shock-like sensation or pain occurs during needle or catheter insertion. If this happens, you must tell your anaesthetist immediately.
- A sensation of warmth and numbness gradually develops, like the sensation after a dental anaesthetic injection. You may still be able to feel touch, pressure and movement.
- Your legs feel heavy and become increasingly difficult to move.
- You may only notice these effects for the first time when you recover consciousness after the operation, particularly if your epidural was put in when you were anaesthetised.
- Overall, most people do not find these sensations to be unpleasant, just a bit strange.
- The degree of numbness and weakness gradually decreases over the first day after the operation.
What are the benefits?

- Better pain relief than other methods, particularly when you move.
- Reduced complications of major surgery, for example: nausea/vomiting, leg/lung blood clots, chest infections, blood transfusions, delayed bowel function.
- Quicker return to eating, drinking and full movement, possibly with a shorter stay in hospital compared to other methods of pain relief.

How do the nurses look after me on the ward with an epidural?

- At regular intervals, the nurses will take your pulse and blood pressure and ask you about your pain and how you are feeling.
- They may adjust the epidural pump and treat side effects.
- They will check that the pump is functioning correctly. They will encourage you to move, eat and drink, according to the surgeon’s instructions.
- The pain relief team doctors and nurses may also visit you, to check your epidural is working properly.

When will the epidural be stopped?

- The epidural will be stopped when you no longer require it for pain relief.
- A few hours after the pump is stopped, the epidural tubing will be removed, as long as you are still comfortable.
- The epidural catheter will be removed if it is not working properly. Another epidural catheter can be re-inserted if necessary.

Can anyone have an epidural?

No. An epidural may not always be possible if the risk of complications is too high. The anaesthetist will ask you if:

- you are taking a blood thinning medicine, such as warfarin, rivaroxaban or dabigatran
- you are taking a medicine which affects your clotting cells, such as clopidogrel or aspirin
- you have a blood clotting abnormality
- you have an allergy to local anaesthetics
- you have severe arthritis or deformity of the spine
- you have an infection in your back
- you are taking recreational drugs.

Side effects and complications

- All the side effects and complications described can occur without an epidural.
- Side effects are common, are often minor and are usually easy to treat. Serious complications are fortunately rare.
For major surgery, the risk of permanent nerve damage is about the same, with or without an epidural.

The risk of complications should be balanced against the benefits and compared with alternative methods of pain relief. Your anaesthetist can help you do this.

Very common or common side effects and complications

Inability to pass urine: The epidural affects the nerves that supply the bladder, so a catheter (‘tube’) will usually have to be inserted to drain it. This is often necessary anyway after major surgery to check kidney function. With an epidural, it is a painless procedure. Bladder function returns to normal when the epidural wears off.

Low blood pressure: The local anaesthetic affects the nerves going to your blood vessels, so blood pressure always drops a little. Fluids and/or drugs can be put into your drip to treat this. Low blood pressure is common after surgery, even without an epidural.

Itching: This can occur as a side effect of morphine-like drugs used in combination with local anaesthetic. It is easily treated with anti-allergy drugs.

Feeling sick and vomiting: These can be treated with anti-sickness drugs. These problems are less frequent with an epidural than with most other methods of pain relief.

Backache: This is common after surgery, with or without an epidural and is often caused by lying on a firm flat operating table.

Inadequate pain relief: It may be impossible to place the epidural catheter, the local anaesthetic may not spread adequately to cover the whole surgical area, or the catheter can fall out. Overall, epidurals usually provide better pain relief than other techniques. Other methods of pain relief are available if the epidural fails.

Headaches: Minor headaches are common after surgery, with or without an epidural. Occasionally a severe headache occurs after an epidural because the lining of the fluid filled space surrounding the spinal cord has been inadvertently punctured (a ‘dural tap’). The fluid leaks out and causes low pressure in the brain, particularly when you sit up.
Occasionally it may be necessary to inject a small amount of your own blood into your epidural space. This is called an ‘epidural blood patch’. The blood clots and plugs the hole in the epidural lining. It is almost always immediately effective. The procedure is otherwise the same as for a normal epidural.

**Uncommon complications**

**Slow breathing:** Some drugs used in the epidural can cause slow breathing and/or drowsiness requiring treatment.

**Catheter infection:** The epidural catheter can become infected and may have to be removed. Antibiotics may be necessary. It is very rare for the infection to spread any further than the insertion site in the skin.

**Rare or very rare complications**

Other complications, such as convulsions (fits), breathing difficulty and temporary nerve damage are rare whilst permanent nerve damage, epidural abscess, epidural haematoma (blood clot) and cardiac arrest (stopping of the heart), are very rare indeed.

In comparison, you are more likely to die from an accident on the roads or in your own home every year than suffer permanent damage from an epidural. These risks can be discussed further with your anaesthetist and more detailed information is available. (All risks quoted are approximate and assume best practice).

**What if I decide not to have an epidural?**

It is your choice. You do not have to have an epidural.

- There are several alternative methods of pain relief with morphine that work well; injections given by the nurses or by a pump into a vein which you control by pressing a button (Patient Controlled Analgesia, ‘PCA’).
- There are other ways in which local anaesthetics can be given.
- You may be able to take pain relieving drugs by mouth.
- Every effort will always be made to ensure your comfort.

**How do I ask further questions?**

- Ask the nursing staff or your anaesthetist.
- Most hospitals have a team of nurses and anaesthetists who specialise in pain relief after surgery. You can ask to see a member of the pain team at any time. They may have leaflets available about pain relief. To contact the Acute Pain Service ask your nurse to bleep 152-365 or telephone extension 3795.
Questions you may like to ask your anaesthetist:

Q Who will give my anaesthetic?
Q Do I have to have this type of pain relief?
Q Have you often used this type of pain relief?
Q What are the risks of this type of pain relief?
Q Do I have any special risks?
Q How will I feel afterwards?

Other organisations:

Royal College of Anaesthetists: 48-49 Russell Square
London WC1B 4JY.
Phone: + 44 20 7813 1900
Fax: + 44 20 7813 1876
E-mail: info@rcoa.ac.uk
Website: www.rcoa.ac.uk
The organisation responsible for the standards in anaesthesia, critical care and pain management throughout the UK.

Association of Anaesthetists of Great Britain and Ireland: 21 Portland Place
London WC1B 1PY
Phone: +44 20 7631 1650
Fax: +44 20 7631 4352
E-mail: info@aagbi.org
Website: www.aagbi.org
This organisation works to promote the development of anaesthesia and the welfare of anaesthetists and their patients in Great Britain and Ireland.

We are now a smoke-free site: smoking will not be allowed anywhere on the hospital site. For advice and support in quitting, contact your GP or the free NHS stop smoking helpline on 0800 169 0 169.

Other formats:

If you would like this information in another language, large print or audio, please ask the department where you are being treated, to contact the patient information team: patient.information@addenbrookes.nhs.uk. Please note: We do not currently hold many leaflets in other languages; written translation requests are funded and agreed by the department who has authored the leaflet.

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