

PATIENT INFORMATION SHEETS

Anaesthesia for Total Hip Replacement

Anaesthesia is about safety and comfort whilst surgery is performed. Australia is one of the safest places in the world to have an anaesthetic and your anaesthetist is a highly trained medical specialist with years of expertise in anaesthesia, emergency medicine, pain management and intensive care.

The preoperative consultation:

Hip replacement surgery is considered major surgery. The role of the anaesthetist is a very important one and there are many issues that need to be discussed. He/she will usually visit you in hospital before the surgery and you will have the opportunity to discuss the anaesthetic and your pain management.

Important questions that he/she will ask:

- Have you or a family member had any problems with anaesthesia?
- How is your health? Particularly your heart, lungs, blood clotting problems.
- Are you on any medication? particularly heart or blood pressure medication, or aspirin (aspirin should be discontinued at least 10 days before surgery)
- Do you smoke? Smoking increases your risk for an anaesthetic and you should try to stop smoking 6 weeks before surgery as this will improve your lung function. If you cannot do this, at least DO NOT smoke on the day of surgery.

What is anaesthesia?

Anaesthesia is the practice of medicine dedication to suppressing consciousness and alleviating pain. The role of the anaesthetist is as a perioperative (meaning "all-round") physician, providing medical care throughout your surgical experience.

There are three broad categories of anaesthesia – general, regional or local which can be used alone or in combination.

Local anaesthesia is used for minor surgery, such as when the dentist fixes your teeth.

General anaesthesia is where you go completely to sleep, and is usually administered by an injection or by a mask. General anaesthesia is now considered very safe for the majority of people. The anaesthetist monitors you throughout the surgery to make sure you are safe, asleep and comfortable.

Regional anaesthesia focuses on numbing a specific are of the body. The main types of regional anaesthesia used for hip replacement surgery are spinal and epidural or a combination of the two.

In a <u>spinal block</u>, a very fine needle is inserted into the lumbar spine area, and local anaesthetic is injected into the spinal fluid. This produces nearly immediate numbing of the lower half of the body which can last a variable amount of time depending on the drug used. Morphine can also be injected which will provide longer lasting pain relief. It is a very safe procedure for the majority of patients but can have some side effects such as headache, lowering of blood pressure, itch

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and nausea. Very uncommon complications include nerve damage (which will usually only be temporary), a spinal haematoma, infection or worst case scenario, paraplegia.

An <u>epidural block</u> is similar to a spinal block but the space for the local anaesthetic is closer to the skin and a small catheter is left in the back. Usually, local anaesthetic will be infused continually after the operation and will numb the nerves to the hip.

There are several advantages to using a regional technique during joint hip surgery. Studies have shown that there is less blood loss, fewer complications with blood clots on the legs and lungs, better pain relief, earlier mobilization and hence quicker recovery.

In hip replacement surgery, the anaesthetist will usually use a combination of general and regional anaesthesia. He/she will put in the spinal or epidural just before you go to sleep, in the Anaesthetic Room. Then you will be taken into the operating room and go off to the sleep for the operation.

During the operation:

Whilst you are asleep or having your surgery the anaesthetist not only makes sure you are asleep and comfortable, but looks after your fluid replacement, temperature, kidney function, body position and lungs and heart function.

Pain Relief after Surgery

The goals of postoperative pain management are to make you as comfortable as possible whilst still allowing you to do the required physical therapy. If a general/spinal anaesthetic was used, you will probably have pain relief delivered to you by the intravenous route via a machine called a PCA (patient controlled analgesia) where you can push a button and the machine will give you a dose of morphine into the intravenous drip.

If you had an epidural, you will have an infusion of local anaesthetic through the catheter in your back.

These will probably be in use of the first 2 days and then as the pain lessens and you become more mobile, you will receive your strong pain medication by tablets.

Blood Transfusion

Hip replacement surgery involves moderate blood loss and you may require a blood transfusion. The decision to give you a transfusion is based on a number of factors including your preoperative haemoglobin, medical problems and of course, how much blood you lose during and after the operation. Blood transfusions are very safe these days and all the blood is tested. You may be given the opportunity to donate blood prior to the surgery to be used during and after the operation, but this decision will be up to the surgeon and your physicians, as not everyone is suitable.