



## Vasectomy Reversal

This operation is carried out to men who have previously had a vasectomy for sterilisation and wish to attempt to father further children by natural means.

The operation is usually carried out as a Day Surgery procedure. The patient is admitted and should have previously shaved the scrotum. The procedure is carried out under General Anaesthetic.

Usually a small incision is made on either side of the scrotum over the vasectomy site which is usually palpable. The scar tissue from the vasectomy is cut away and flow of sperm from the testicular end is looked for. A very fine probe is passed down the other end which is also cleared of the scar tissue. Sometimes the gap between the two ends is too large to successfully bring the ends together.

The two ends are then stitched together using very fine material with the aid of the operating microscope. The skin is closed using stitches which will dissolve in about one week to ten days. There will be some swelling after the operation which is likely to be more than experienced when undergoing the vasectomy. For that reason a firm pair of underpants should be worn.

### Results:

The likelihood of a baby depends on the length of time from the vasectomy to the reversal.

Overall patients undergoing this procedure may expect around 50-60% success. Often the success of sperm in the ejaculate is higher than that. However in some men substances called anti sperm antibodies can react with sperm to prevent them being successful at fertilisation. Anti sperm antibodies develop when the vasectomy is carried out and the sperm come into contact with the blood stream and the immune system treats the sperm as foreign rather like an infection and makes antibodies against them. In some cases, that is able to be treated successfully with medication and a pregnancy results.

It is important to realise that in the topic of fertility, success can be measured in different ways. For the patient and Cairns Urology success is measured by the production of a baby. For some other institutions success is measured by the ability to achieve joining the ends of vas together. For other institutions success is measured by the presence of sperm in the ejaculate and in some organisations carrying out invitro fertilisation (IVF) success is measured by the ability to insert a sperm into an ovum (egg). Unfortunately not all those measures of success relate to the success of delivering a baby.

If a sperm count is done after the procedure and sperm are not detected it may be that the testes have stopped production or that scarring has caused further blockage at the reversal site.

When the procedure is over the patient will spend a short time in the Recovery Room where the Nurses will monitor him closely by checking his pulse, blood pressure and breathing until he is ready to return to the sitting area.

Prior to returning to the sitting area he will be able to get changed back into his clothes.

It may be necessary for the Nurse to check his pulse and blood pressure while he is in that area.

At this stage he will be allowed to have something to eat and drink and it is helpful if he drinks a good amount of fluid and continues the intake so that he is consuming 2-3 litres of fluid per day.

Alcohol should be avoided for the next 2 days after the procedure. Alcohol dilates the blood vessels and can result in further bleeding and swelling Medications taken for other medical conditions should be continued unless specifically stopped by the Surgeon.

## General Anaesthesia

After a general anaesthetic the patient should not drive or operate any form of machinery or make legal decisions within 48 hours of the anaesthetic.

Some of the stitches are internal and will dissolve. The skin stitches will also dissolve in about 7-10 days and fall out by themselves.

If the wound becomes increasingly painful or if any discharge is noticed then the patient should either see his General Practitioner or phone Dr Gordon's rooms.

If there is any bleeding from the wound, the wound should be pressed upon at the bleeding site using a gauze swab. That pressure should remain uninterrupted for a period of 5 minutes as timed by a standard clock before removing the gauze or the pressure.

If the period of time is interrupted then the 5 minutes must be restarted. Should that not cause the bleeding to stop then the Doctor should be notified.

The patient will need at least 1-2 weeks off work, resting (lying down with the feet slightly elevated which reduces swelling and pulling on the re-joined site) as much as possible and avoiding driving for at least 1 week after surgery. Sitting and standing for more than 10-15 minutes at a time should be avoided. A Scrotal support or firm underpants should be worn at all times following the procedure to help reduce the swelling.

The patient should avoid intercourse for 3 weeks after the surgery. It takes approximately 72 days for sperm to be manufactured and transported to the ejaculatory ducts. So a semen analysis is usually not carried out before then. Occasionally there may be some blood mixed with the sperm after surgery. This will settle by itself.

## Work Certificates

If the patient requires a Certificate for work or any other reason please notify the Nurse upon admission to the Day Surgery area.

## Follow-Up

A follow-up appointment will be given at the time of discharge from Day Surgery.

## General Practitioner

The referring Doctor or General Practitioner will receive a report on the procedure, recommended treatment and follow-up within 24-48 hours after the procedure. The patient will be informed of the findings and the management of his condition will be discussed with him prior to his discharge. A friend or relative is welcome to be present at that discussion also.