



GIG
CYMRU
NHS
WALES

Bwrdd Iechyd Prifysgol
Aneurin Bevan
University Health Board

Information leaflet for patients and carers

Robotic Radical Prostatectomy

Urology Department

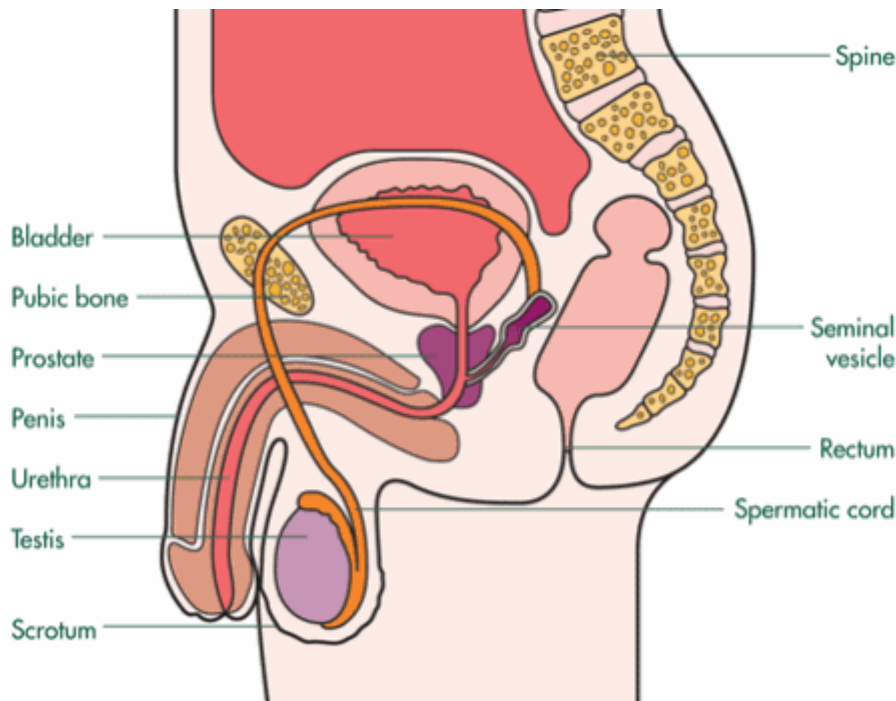
You are due to come into hospital for an operation called a Robotic Radical Prostatectomy. This information leaflet aims to answer some of the questions you may have and give you an idea of what to expect.

What is a Robotic Radical Prostatectomy?

Keyhole surgery to remove the entire prostate gland, together with the seminal vesicles (sperm sacs), occasionally lymph nodes using robotic assisted techniques (The Da Vinci machine).

What and where is my prostate?

The prostate is a small gland found only in men. It's about the size of a walnut and gets a little bigger with age. It surrounds the first part of the tube (**urethra**) that carries urine from the bladder along the penis.



The prostate produces a thick, white fluid that mixes with the sperm produced by the testicles to make semen. It also produces a protein called **prostate-specific antigen (PSA)** that turns the semen into liquid. The prostate gland is surrounded by a sheet of muscle and a fibrous capsule. The back of the prostate gland is close to the rectum (back passage). Near the prostate are collections of lymph nodes.

What are the alternatives to this procedure?

Alternatives to this procedure include active surveillance, open radical prostatectomy, external beam radiotherapy, brachytherapy or hormonal therapy depending on your specific circumstances and cancer features.

You will already have had a discussion with your urologist and oncology nurse about prostate cancer. Please remember that early prostate cancer can be effectively treated. Most men with early prostate cancer will remain alive and healthy for many years to come.

Radical prostatectomy is an operation which aims to remove the cancer and the prostate completely. The main advantage of surgery is that the cancer can be removed completely.

There are several ways of doing a radical prostatectomy. These include:

- **Open** radical prostatectomy
- **Robotic** radical prostatectomy

The decision about which operation to have is one that you should make with your Urologist and no-one will mind which operation you have.

What are the benefits of robotic prostatectomy?

Robotic prostatectomy has been shown to have the following benefits:

- Shorter hospital stay
- Less pain
- Less scarring
- Minimal blood loss
- Faster recovery and return back to normal activities such as driving
- Enhanced surgical 3-D vision and dexterity of instruments with the greater chance of sparing the nerves and blood vessels attached to the prostate, minimizing risk and contributing to cancer clearance.

Your urologist will discuss the details of the procedure with you whilst you are an outpatient, outlining the procedure as part of your consent. You should be aware that there is a small chance (less than 2%; 1 in 50) that your procedure may need to be converted to an open operation. Unfortunately, if you do not agree to open surgery under any circumstances, we would be unable to proceed with the robotic operation.

Please be assured that deciding which operation to have is not something you will do alone. If you would like further information, please contact the urology nurse specialist or the surgical care practitioner.

Are there any side-effects?

Most procedures have possible side-effects. Although the complications listed below are well-recognized, most patients do not suffer any problems.

Common (greater than 1 in 10)

- Temporary difficulties with urinary control
- Temporary shoulder tip pain or abdominal bloating
- Impairment of erections even if the nerves can be preserved (20-50% of men with good pre-operative sexual function)
- Inability to ejaculate or father children because the structures which produce seminal fluid have been removed (occurs in all patients).
- Discovery that cancer cells have already spread outside the prostate, needing further treatment.

Occasional (between 1 in 10 and 1 in 50)

- Scarring at the bladder exit resulting in weakening of the urinary stream and needing further surgery (2-5%).
- Severe urinary incontinence (temporary or permanent) needing pads or further surgery (2-5%)
- Blood loss needing transfusion or repeat surgery
- Further treatment at a later date, including radiotherapy or hormone treatment
- Lymph fluid collection in the pelvis if lymph node sampling is performed

- Some degree of mild constipation can occur; you will be given medication for this but, if you have a history of piles, you need to be especially careful to avoid constipation
- Apparent shortening of the penis
- Development of a hernia related to the site of the port insertion
- Development of a hernia in the groin area at least 6 months after the operation.

Rare(less than 1 in 50)

- Anaesthetic or cardiovascular problems possibly requiring intensive care admission (including chest infection, pulmonary embolus, stroke, deep vein thrombosis, heart attack and death).
- Pain, infection or hernia at incision sites
- Rectal injury needing a temporary colostomy.

Hospital acquired infection

- Colonization with MRSA (0.9% - 1 in 110).
- MRSA bloodstream infection (0.02% - 1 in 5000).
- *Clostridium difficile* bowel infection (0.01% - 1 in 10,000).

What should I expect before the procedure?

You will normally receive an appointment for a pre-assessment check a week or so before your operation date. This is to assess your general fitness and suitability for surgery and anesthetic, answer any questions you may have, complete the consent form and perform some important baseline tests including blood, urine and ECG. Give some important information about the enhanced recovery process which includes drinks that you will be taking in preparation for your surgery, fasting instruction and medications. It would be helpful if you bring someone with you for this appointment. You will also get an appointment from the continence nurse specialist clinic to learn about pelvic floor exercise. This cannot always be arranged on the same visit.

You will also be requested to go to UHW, Cardiff (where your procedure is done) a week before the operation in order to have some blood test done.

You will have been given a prescription of the following medicines:

- Vitamin BPC for a month which should be commenced the day of your pre assessment appointment.
- Glycerine suppositories- 2 capsules to be self-administered i.e. put in to the back passage at 8 pm the evening before your operation
- Ranitidine Antacid tablet, 150mg, 1 tablet to be swallowed with water at 8 pm the evening before and 6 am the morning of your operation.

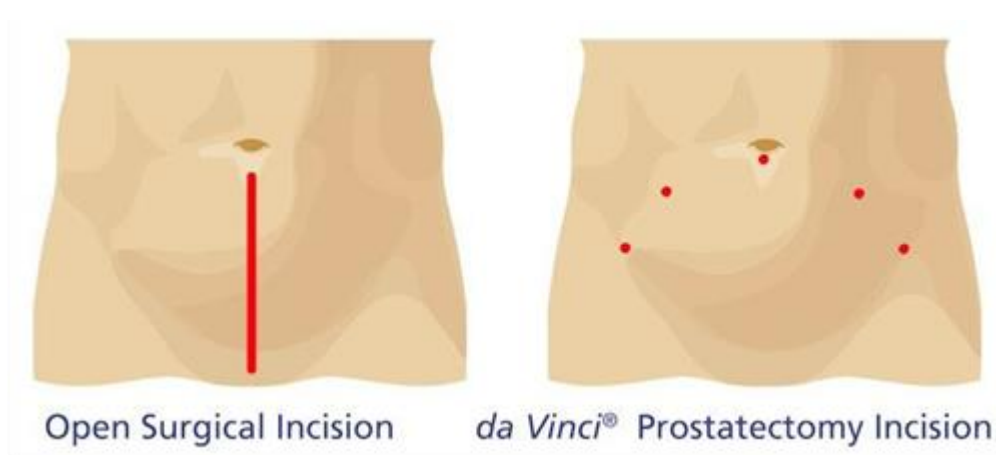
You will usually be admitted to University Hospital of Wales, Cardiff on the same day as your surgery into the Short Stay Surgical Unit (SSSU).

Upon admission you will be given elasticated stockings provided by the ward (to help prevent venous thrombosis i.e. clots in your legs). You will be seen by members of the medical team which may include the consultant, anaesthetist, specialist registrar, surgical care practitioner and your named nurse. A second sample of blood will be taken in the morning. Make sure that you have ample opportunity to discuss any concerns and to ask any questions you may have. You will be seen by the anaesthetic team to ensure that they have no concerns anaesthetising you. You are encouraged to ask them questions at this stage about any concerns or issues you have concerning the anaesthetic. You should prepare yourself to mobilize immediately after the operation.

What happens during surgery?

A full general anaesthetic is normally used and you will be asleep throughout the procedure. You will usually be given an injection of antibiotics before the procedure, after you have been checked for any allergies. If you have any allergies, be sure to let the anaesthetist know. You will be carefully positioned in a head down position on the operating table for easier access of the pelvis.

The Da Vinci® prostatectomy removes the prostate gland and surrounding structures using 'keyhole' techniques with small skin incisions (pictured below). A robotic cart (pictured above left) is placed beside you in the operating theatre. Each cart has four robotic arms: three for instruments and one for a high- magnification 3-D camera. The robotic arms hold a variety of 8 mm instruments that are placed inside your abdomen through small incisions. These instruments are quite small, have a greater range of movement than the human hand and allow the surgeon to carry out this delicate operation in 3-D, within a small space in the body.



The operating surgeon sits in the same room but away from you whilst carrying out controlled and precise movements using robotic assistance to remove the prostate gland and re-join the bladder back to the water pipe (urethra). There will be a surgical assistant by your side who helps the surgeon with other aspects of the surgery. It is important to emphasise that **the robot does not do the operation**; the instruments are controlled by the surgeon because the robot cannot work on its own.



What should I expect immediately after my surgery?

You will be taken to the recovery area once your surgery is finished and remain there until the anaesthetic wears off. You will be given clear fluids to drink. Once the anaesthetist and nursing staff have agreed that your condition is stable; you will be transferred back to the ward. You can start to eat as soon as you feel able to do so. You will be encouraged to sit out of bed in a chair as early as possible and begin gentle mobilisation as soon as possible.

You would be discharged from the ward after approximately 12 or 24 hrs. If your surgery is performed in the morning, we would like you to go home by the end of the day. But if it's done in the afternoon, you would be going the day after surgery. You will be given instructions with regards to the care for your catheter/ leg bags before you are discharged from the ward.

What should I expect when I am discharged home?

You will need some comfortable loose clothing as you may find that your abdomen is uncomfortable and swollen. You will need someone at home with you for the first few days after you are discharged. You will have a phone call from the nurse specialist and visit from the district nurse re:-catheter maintenance care within the next 2 days of your discharge.

Your wounds will be closed with absorbable sutures which dissolve within the next 10 – 14 days. You will have 6 small dressings on your wounds which can be removed within the next 48-72 hrs. Extra dressing would be given when you are discharged from the ward. However, if the wound site looks dry and clean, they can be left to open air.

A 2-4 week convalescence period is usually necessary after robot assisted surgery. This is less than that experienced after an open operation where patients may feel weak and tired for several months. It is important to stay active after your surgery as this minimises the risk of complications such as chest infection and deep vein thrombosis. A little gentle exercise each day is recommended.

You will go home on Fragmin injections for 28 days. Fragmin is a drug that helps to keep the blood thin and helps prevent clot formation. You would have been shown how to do this at your pre-assessment appointment. If you have any questions ask the nurse discharging you.

How much pain will I experience?

Since the surgery is performed through a small incision most patients experience much less pain than with open surgery.

Patients tend to need less pain medication and after one week very few men feel any pain at all.

How do I control my pain?

You will probably experience a little discomfort after your surgery. Some men find they notice pain in the perineum (the area between the scrotum and the anus) due to bruising from the operation. Occasionally men feel pain in their shoulder region, this is due to the gas that was used during the operation irritating the diaphragm and sending referred pain to the shoulder. This usually settles after a few days. Due to your positioning during surgery, slight swelling and soreness can occur around the head and in the eyes. This latter problem is probably caused by inflammation of the cornea. Try to avoid rubbing your eyes and this discomfort will ease spontaneously within a day or two. It is not unusual to see some bruising on your abdomen or in the scrotum. Sometimes the scrotum can be swollen and purple in colour.

You will normally be given prescription for simple painkillers such as Paracetamol and Ibuprofen to go home during your pre assessment appointment and it should be taken as directed.

What if I see blood in my urine?

This is a common occurrence after radical prostatectomy when you are at home and becoming more mobile, the catheter can cause inflammation in the bladder and this may lead to blood staining in the urine. This is only of concern if you can see large clots or solid pieces of debris passing down the catheter. If this happens please contact your district nurse or clinical nurse specialist.

What if the catheter blocks?

This will become an emergency situation if not dealt with in a timely fashion. If you notice that urine has not been draining check that:-

- The drainage bag is below the level of your bladder
- The catheter has no kinks or twists in it
- You cannot see pieces of debris or blood clots in the catheter tube

Contact your district nurse immediately, or get in touch with you clinical nurse specialist. They can do a gentle bladder wash out only if it's absolutely necessary but under no circumstances can the catheter be removed/replaced. It should be dealt in the Royal Gwent Hospital if there are any problems.

What if I feel something is wrong in the first few weeks of surgery?

If you feel unwell or are concerned about your health you should contact us straight away during office hours (numbers at the back). You should contact D5W (01633 234040) asking to speak to the Urology Nurse in charge.

How and when is the catheter removed?

After a robotic prostatectomy, the catheter needs to stay in place for 14 days for healing of the urethra to take place. Removal takes about 15 seconds and feels peculiar but it is not painful. After the catheter has been removed, remember that your bladder has not been filled for a while and that the outlet has been kept open artificially. The body tissues at the site of the surgery are affected by swelling and temporarily lose their elasticity. As a result you will not have full control of urine and you will have some leakage for the first few weeks or months. Once the urethral catheter has been removed please resume your pelvic floor exercise.

Pelvic Floor

The male pelvic floor is made up of deep supportive layers and superficial layers of muscle. One of its most important functions is to help with the storage of urine and faeces and keep the bladder and bowel in place. It aids the prevention of leakage from the bladder/ and or /bowel. After prostate surgery most men leak urine and it has been proven that pelvic floor exercises may assist in the recovery of bladder control and thus aid in helping prevent leakage. Pelvic floor exercises have also been shown to help men who suffer with post – micturition dribble and erectile function.

Identifying the Pelvic Floor

There are 2 muscle groups within the pelvic floor, slow muscles and fast muscles. Both groups of these muscles must be exercised for maximum benefit.

- Imagine that you are trying to stop yourself passing wind. Tighten around the back passage and pull up towards the front passage. For visual confirmation stand in front of a full length mirror and squeeze – you should notice a slight movement in the penis and lift in the scrotum if doing exercise correctly.
- Another way to identify the pelvic floor is to try and stop the flow of urine when you go to the toilet, but **don't** do as common practice.

Try to avoid holding your breath, pulling in your abdomen or tensing your buttocks.

Pelvic Floor Exercises comprises of 3 positions.

Sitting: sit on the edge of a chair/bed with your knees apart and feet facing forward.

Standing: stand with feet apart and facing forward.

Lying: Lie on your back with your knees bent and apart with your feet on the bed.

We would advise you to choose 1 position for morning, 1 for lunchtime and 1 for evening). In each position there is a regime to follow which consists of slow and fast exercises.

Regime before surgery

Slow Exercise: Pull in fully and hold for **10** seconds, relax always 4 seconds. Perform this 3 times.

Then do

Fast Exercise: Pull in fully then relax x 10 maximum

Regime after surgery (after catheter removal)

Slow Exercise: Pull in fully and hold for **4** seconds (this is to be gradually increased when muscle capable), relax always 4 seconds. Perform this 3 times.

Then do

Fast Exercise: Pull in fully then relax x 10 maximum)

You will be reviewed with the Continence Specialist Nurse 2-3 weeks post removal of the urethral catheter.

PLEASE NOTE THESE EXERCISES ARE FOR LIFE.

When can I exercise?

Light walking is encouraged straight after the procedure. After two weeks, jogging and aerobic exercise is permitted.

Can I shower or bath?

Yes. The dressings on your abdomen are waterproof. We recommend that you rinse any soap thoroughly from your body as this may loosen the dressings.

You should gently pat yourself dry to minimise the risk of infection.

When can I drive?

When you feel comfortable to do so and when you feel able to make an emergency stop. This is usually about four weeks after your operation. Please check with your insurance company before attempting to drive as policies can give you an exact time period to not drive after major surgery or state at the surgeons discretion – this is four weeks.

When can I resume sexual activity?

This will depend on whether a nerve sparing procedure was possible at the time of surgery. We ask that you take note of any erections or feelings you may have and report them at your follow up appointment.

We will normally start you on a medication such as Cialis 5mg daily when you return to your follow up appointment. This medication will help to improve the blood flow into the penis for rehabilitation of your erections.

We would not expect this to result in erections immediately and in some patients it may take as long as 18 months to recover erectile function. If oral medication proves to be unsuccessful, we can then arrange for you to be reviewed by a urology clinical nurse specialist to discuss other alternatives such as injection treatments.

How much should I drink?

You need to ensure that you drink at least 2 litres of fluid each day. Try to include plenty of water. If possible moderate your intake of tea/coffee/coke as these potentially can increase frequency and urgency.

What if I get bladder spasms?

Bladder spasms (which feel like abdominal cramps) are quite common when you have a catheter in your bladder. The bladder may try to squeeze out the balloon (which it sees as a foreign body) and this causes the spasm. Although this can be uncomfortable, it is not a cause for concern.

What happens if I leak around the catheter?

Urine leakage around the outside of the catheter is called by-passing. It is sometimes the results of bladder spasms or can take place when you open your bowels. If it does happen, please check that urine is still draining into your leg-bag, if it is not you need to contact your district nurse, or contact your urology clinical nurse specialist (numbers at the end of this leaflet).

What about my bowel movements?

Avoid constipation at all costs!!!!

After the anaesthetic and as a result of the surgery and some of the drugs you will have been given, your bowels may take some time to return to normal. You would have been given laxatives at your pre assessment appointment which will maintain soft bowel movements. This should be continued until your bowels are back to normal for you.

Lactulose and Senna are suitable laxatives to take at home. If you have haemorrhoids (piles), the operation may cause them to become inflamed so you will need to take particular care to keep your bowel regular.

When can I return to work?

Please allow a couple of week's recuperation before returning to work. Returning to work sometimes can depend on your urine control after a couple of weeks. If your work involves heavy lifting please speak to your consultant about this prior to leaving hospital.

If you develop a temperature, increased redness throbbing or drainage at the site of your operation, please contact your GP. If you have problems with your catheter (especially if it falls out), ask your GP to contact the on-call Urology doctor as soon as possible. (D5W-01633 234040). If you are unable to pass urine after your catheter has been removed you should contact the urology clinical nurse specialists (day time numbers on the reverse of leaflet), D5W or Royal Gwent Hospital Surgical Assessment Unit.

Are there any other important points?

You will go home with a catheter in place. This is to splint the delicate joint between your water pipe and the bladder until it heals up typically for 14 days.

Preparation for removal of catheter

You will see the Urology Outpatients Department 14 days following your surgery for catheter removal. A supply of continence pads would have been ordered by the Continence Nurse when you attended your Pelvic Floor exercise appointment. They should have been delivered prior to your admission. If not phone the Continence Team on 01633 234976 and they will help you.

Will there be any out-patient follow up?

You will receive a telephone consultation with the specialist nurse a few days after the catheter has been removed. There will also be an appointment to return to the outpatient clinic about six weeks after surgery. This is to allow the consultant to find out how you are getting on with your recovery and to discuss with you the findings of the pathology report on your prostate specimen.

The purpose of the operation is to remove the prostate and all of the prostate cancer. Occasionally the prostate cancer has spread microscopically outside the specimen that was removed. In this case, your consultant will advise you about having further treatments (usually radiotherapy and occasionally hormone therapy) to ensure the complete eradication of any remaining cancer cells.

The Consultant may at this point arrange for your follow up to be performed by the clinical nurse specialist at four monthly intervals for the first year. You will need to have a PSA blood test at your GP surgery about a week before your appointments. If you have any queries about your clinical management please talk to your clinical nurse specialist (numbers at the end of this leaflet).

HOW TO CONTACT US

**ROYAL GWENT HOSPITAL
UROLOGY DEPARTMENT
CARDIFF ROAD NP20 2UB**

Switch Board – 01633 – 234234

D5 West – 01633 - 234040

CLINICAL NURSE SPECIALISTS

JANET MARTY	01633 - 656143
JULIE SIMPSON	01633 - 238976
SIAN LEWIS	01633 - 238976
STEF YOUNG	01633 – 234533

(Pre assessment Nurse Practitioner)

JEYANTHI RAVI—Bleep 0407 via switch

(Robotic Surgical Care Practitioner)

Where is your surgery taking place?

**Short Stay Surgical Unit
Ground Floor
University Hospital of Wales (UHW)
Heath Park
Cardiff
CF14 4XW**

Reception- 029 20742640 or 20742662

