Treating your enlarged prostate gland HoLEP (holmium laser enucleation of the prostate)

This leaflet is designed to answer any questions you may have about having holmium laser treatment for your enlarged prostate. It explains why this treatment may be suitable for you, its risks and benefits and what you can expect if you decide to have this treatment. If you have any questions that are not answered in this leaflet, please ask your prostate nurse specialist who will be happy to help.

What is the prostate?
Your prostate is part of your reproductive system. It is a plum-sized gland and is only found in men. It lies at the base of your bladder and surrounds your urethra (tube that takes urine from the bladder, along the penis and out of your body). Your prostate produces nutrients for your sperm, which makes up part of the milky fluid (semen) when you ejaculate.

Why has my prostate enlarged?
As men get older the cells of the prostate begin to swell, which increases the size of the prostate. This is called benign prostatic hyperplasia (BPH), which means extra growth of normal (non-cancerous) cells. This isn’t usually serious, but sometimes the prostate grows so large that it puts pressure on your urethra (the tube through which you pass urine). This can make it difficult for you to pass urine and may cause other urinary symptoms such as:

- not being able to empty your bladder completely, so you may need to go to the toilet more often (referred to as frequency)
- having a weak urine flow
- having to strain to pass urine.

Because of the squeeze on your urethra, you may have to use a lot of pressure to pass urine. In the long term, this can damage your bladder and kidneys.

Why do I need this treatment?
Not everyone who develops an enlarged prostate will need treatment. However, your consultant has recommended holmium laser treatment as the best option to relieve your symptoms. It will make it easier for you to pass urine and may relieve your other symptoms, although it will not always resolve all of them.

If you do not have treatment, your prostate will continue to grow. This may make your symptoms worse and increases the possibility of problems with your bladder and/or kidneys.
What does holmium laser treatment involve?
A fine telescope-like instrument is inserted into your urethra. The high powered laser is then
inserted through this instrument and used to carefully remove the excess prostate tissue that is
causing obstruction of the urethra.

The residual pieces (or lobes) of the prostate are removed by the surgeon. This tissue can be
analysed to identify whether there was any evidence for cancerous change within the prostate.
This differs from some other laser procedures which work by completely destroying the prostate
tissue that is removed.

When the surgeon has finished lasering your excess prostate tissue a catheter will be inserted.
Depending on the time of your surgery the catheter will be removed on the evening of surgery
(whilst you are asleep) or early in the morning.

The operation can be carried out either under a general anaesthetic, which means you will be
asleep for the entire procedure, or under a spinal anaesthetic where you remain awake, but
your body is numb from the waist downwards and you do not feel pain.

What are the benefits of this treatment?
The holmium laser seals the blood vessels of the prostate tissue. There is therefore very little
blood loss in comparison to the other surgical options outlined below.

The catheter that is inserted after the procedure can usually be removed within 12–24 hours of
the surgery. This allows you to leave hospital more quickly than the other surgical options below
and reduces your recovery time.

Are there any alternatives?
There are several alternative treatment options outlined below, although they may not all be
appropriate for you. Your consultant or nurse specialist will discuss these with you if they are
suitable for your situation:

- **Observation of your symptoms.** Some men may want time to think about surgery, or
  want to wait and see if their symptoms become any worse before opting for treatment.
- **Medicines.** There are two types of medicines available. They either shrink your prostate
  or relax the muscles in your prostate and bladder to improve the flow of urine. However,
  the effects only last as long as you take the medicines. You may have already tried this
  option without success.
- **Transurethral resection of the prostate (TURP).** This is an operation to remove the
  parts of your prostate that are pressing on your urethra, to make it easier for you to pass
  urine. It involves a surgeon inserting a special telescope-like instrument into your urethra,
  which has a heated wire at one end. This is then used to destroy the prostate tissue or
  cut it into pieces.
- **Open (traditional) surgery** (Millin’s prostatectomy). This is considered if your prostate is
  too large to be removed via a TURP.
- **Prostatic stent.** This is where an expandable tube is inserted into your urethra, to push
  back the prostatic tissue and widen your urethra.
- **Use of a permanent catheter.** This is an option for men who do not want, or who are not
  considered suitable for any of the treatments above.
What are the risks?

- **Urinary frequency and urgency.** It is not uncommon to experience this after the procedure. These symptoms should go within six to 12 weeks. If they persist you may need further treatment which you will receive at your follow up appointment. However it can also be the result of an infection. Please contact your GP to check that you do not have a urinary infection.

- **Urinary infection.** This can cause symptoms such as pain, blood in the urine, or burning feeling when passing urine, but can be treated with antibiotics. This happens to about five in 100 patients.

- **Retrograde ejaculation.** This is where your semen travels to your bladder when you ejaculate rather than out through your penis. This is not harmful; the semen will leave your bladder the next time you pass urine and will make your urine appear cloudy. This occurs in about seven in 10 men having this treatment and is a long-term side effect. You will still be able to have an erection and orgasm, but your fertility may be affected. However, you should not rely on this as a form of contraception.

- **Erectile dysfunction.** The nerves that control your erections are very close to the prostate gland. About 15 in 100 patients may notice a slight deterioration in the quality of their erections which will usually respond to medication. However, about three in 10 men will notice that their erectile function improves significantly because their quality of life and rest has improved after surgery.

- **Bleeding.** There is much less bleeding with holmium laser treatment compared with other surgical procedures for an enlarged prostate. If the bleeding is severe you may need a blood transfusion, but this is extremely rare.

- **Self-catheterisation.** Occasionally, if your bladder is weak as a long term result of your enlarged prostate gland, you may need to use a catheter to empty your bladder. If this risk applies to you, your consultant will discuss this with you in more detail.

- **Prostate re-growth.** Your prostate continues to enlarge even after surgery and if your symptoms return you may need another operation in the future. About three in 100 men need further surgery within a year of this treatment.

- **Deep vein thrombosis (DVT).** Any surgery carries the risk of DVT. This is where a blood clot forms in your veins or arteries, most commonly in the legs (this happens to less than one in 100 people).

- **Injury to the urethra,** causing delayed scar formation. This does not delay your recovery, but can lead to urethral stricture, which is where a section of the urethra narrows, reducing the flow of your urine. This happens to about two in 100 men who have this procedure.

Preparing for surgery

You will be offered a choice of dates for your surgery. You will need to attend pre assessment clinic where we will assess your suitability for surgery under anaesthetic. You will either attend this appointment straight from clinic, or we will send an appointment date by post. Your surgery will not go ahead until you have been passed as fit at the pre assessment clinic.

If you smoke, you should try to stop, as this increases the risk of developing a chest infection or deep vein thrombosis (DVT), explained in the risks section. Smoking can also delay wound healing. For help giving up smoking, please speak to your nurse or call the NHS Smoking Helpline on 0800 169 0 169.

Please continue to take all your medicines unless you are told otherwise and remember to bring them into hospital with you.
What should I expect when I come to hospital?
If you arrive on the ward the day before your surgery, you will be seen by a nurse who will ask you some questions, show you around the ward and prepare you for theatre. If you arrive at the surgical admissions lounge, usually at 7am or 11am, the nurses there will prepare your for your surgery. You will be advised on your arrival time.

A doctor from your consultant’s team will write down all the possible complications of the procedure and discuss these with you. You will then be asked to sign a consent form to confirm that you agree to have the procedure and understand what it involves. It is your right to have a copy of this form. The Trust has produced a leaflet, Helping you decide: our consent policy, which gives you more information on this. If you have not received a copy of this, please ask us for one.

The anaesthetist will also see you to discuss your anaesthetic. You should have been given a Having an anaesthetic leaflet – please ask the staff for a copy if you have not received this. If you have any further questions or concerns, your specialist nurse will be available to answer them.

After your surgery
You should not have any pain from the operation, but you may have some discomfort from the catheter. Some men experience bladder spasms (contractions) caused by the catheter rubbing against the trigone (muscle) inside of your bladder. The spasms result in urine passing down the sides of the catheter which may leak into your underwear. The spasms may also make you have the urge to pass urine, which can be uncomfortable. If you experience these spasms or have a sudden urge to pass urine, please tell a member of staff, as these symptoms can often be relieved.

What problems might I experience after the surgery?
You may experience a mild burning feeling or find it a little uncomfortable to pass urine at first. This is because your urethra will be swollen and sore from the surgery and having the catheter in place. This is normal and should not last long (usually between 10 days and two weeks).

Some men find that they cannot pass urine when the catheter has been removed. If this happens, a new catheter will be inserted into your urethra and you may need to keep this in for several weeks to allow your bladder to rest. If this happens to you, you will be taught how to look after the catheter and we will arrange for a district nurse to visit you at home.

It is common to have less control passing urine for a short time after surgery. If you experience this, please tell your nurse, who will explain how to perform pelvic floor exercises to improve your control. For more information, please ask for the leaflet, Pelvic floor exercises for men.

Once you can pass urine comfortably, you will be allowed home. Once home please make sure you drink regularly (about one and a half to two litres per day), as poor drinking habits may make it more difficult to regain control of your bladder. It also helps to avoid the possibility of a urine infection.

You may notice blood in your urine for about a week after your treatment, although this is much less common with this treatment than other surgical options.
Leaving hospital
Patients are usually able to go home within 24 hours of the procedure. It may be possible for some patients to go home on the same day as the procedure.

If you still have a tube (catheter) in your bladder, we will arrange a district nurse to visit you at home. We will give you specific instructions on when and where catheter is removed as this will be based on your individual circumstances. You will also be given this appointment before discharge or sent an appointment to have your catheter removed.

When will I have a follow-up appointment?
You will be seen in clinic by either a doctor or nurse specialist eight to 12 weeks after your surgery. You will be asked to pass urine into a special machine (flow rate machine) to assess your urinary flow after your treatment, so you will need to attend the clinic with a full bladder. You will have an ultrasound scan of your bladder to make sure you are emptying your bladder when you pass urine. You may also have to fill out a symptom questionnaire, to see if your symptoms have improved. If staff are satisfied with the results of these tests, you will be discharged from the clinic.

You will also be given any histology results then, which will show whether the tissue removed was cancerous or not.

When can I go back to my normal activities?
- **Heavy lifting** should be avoided for the first week or so following the procedure. However, return to light exercise and work activities should be possible within a week or so.
- **Sex.** You should be able to have sexual intercourse soon after surgery, as long as there is no bleeding and you and your partner both feel ready. As explained on page three, there is a very small risk of erectile dysfunction or retrograde ejaculation.
- **Driving.** If you are discharged from hospital on the same day as your operation you should ask someone to take you home as you must not drive within 24 hours of having an anaesthetic. If you leave hospital more than 24 hours after your operation, please discuss driving with your consultant before go home. You should also check with your insurance company that you are covered after having anaesthetic.
- **Drinking alcohol.** Your clinical nurse specialist (CNS) can give you advice about when you can start drinking alcohol.
Contact us
If you have any questions or concerns about holmium laser treatment, please contact one of the prostate nurse specialists on 020 7188 7339, Monday to Friday, 8am to 5pm. Out of these hours contact Florence Ward on 020 7188 8818 or Aston Key Ward on 020 7188 0709.

Alternatively, you can bleep one of the prostate nurse specialists below:

Sharon Clovis on 020 7188 7339/07500 814 939 or bleep 1005 or
Elaine Hazell on 020 7188 6783 or bleep 1596

Pharmacy Medicines Helpline
If you have any questions or concerns about your medicines, please speak to the staff caring for you or call our helpline.
t: 020 7188 8748 9am to 5pm, Monday to Friday

Patient Advice and Liaison Service (PALS)
To make comments or raise concerns about the Trust's services, please contact PALS. Ask a member of staff to direct you to the PALS office or:
e: 020 7188 8801 at St Thomas’t: 020 7188 8803 at Guy’s e: pals@gstt.nhs.uk

Language support services
If you need an interpreter or information about your care in a different language or format, please get in touch using the following contact details.
t: 020 7188 8815 fax: 020 7188 5953

NHS Direct
Offers health information and advice from specially trained nurses over the phone 24 hours a day.
t: 0845 4647 w: www.nhsdirect.nhs.uk

NHS Choices
Provides online information and guidance on all aspects of health and healthcare, to help you make choices about your health.
w: www.nhs.uk

Become a member of your local hospitals, and help shape our future
Membership is free and it is completely up to you how much you get involved. To become a member of our Foundation Trust, you need to be 18 years of age or over, live in Lambeth, Southwark, Lewisham, Wandsworth or Westminster or have been a patient at either hospital in the last five years. To join:
t: 0848 143 4017 e: members@gstt.nhs.uk w: www.guysandstthomas.nhs.uk