

PATIENT INFORMATION

Cystoscopy and litholapaxy: bladder stone crushing and removal

What is the evidence base for this information?

This leaflet includes advice from consensus panels, the British Association of Urological Surgeons, the Department of Health and evidence-based sources; it is, therefore, a reflection of best practice in the UK. It is intended to supplement any advice you may already have been given by your GP or other healthcare professionals. Alternative treatments are outlined below and can be discussed in more detail with your Urologist or Specialist Nurse.

What does the procedure involve?

This procedure involves crushing or disintegration of bladder stone(s) using telescopic instruments or laser and removal of the stone fragments using suction apparatus

What are the alternatives to this procedure?

Open surgery, observation.

What should I expect before the procedure?

You will usually be admitted on the same day as your surgery. You will normally receive an appointment for pre-assessment, approximately 14 days before your admission, to assess your general fitness, to screen for the carriage of MRSA and to perform some baseline investigations. After admission, you will be seen by members of the medical team which may include the Consultant, Specialist Registrar, House Officer and your named nurse.

You will be asked not to eat or drink for 6 hours before surgery and, immediately before the operation, you may be given a pre-medication by the anaesthetist which will make you dry-mouthed and pleasantly sleepy.

Please be sure to inform your Urologist in advance of your surgery if you have any of the following:

- an artificial heart valve
- a coronary artery stent
- a heart pacemaker or defibrillator
- an artificial joint
- an artificial blood vessel graft
- a neurosurgical shunt
- any other implanted foreign body
- a prescription for Warfarin, Aspirin or Clopidogrel (Plavix®)
- a previous or current MRSA infection

What happens during the procedure?

Either a full general anaesthetic (where you will be asleep throughout the procedure) or a spinal anaesthetic (where you are awake but unable to feel anything from the waist down) will be used. All methods minimise pain; your anaesthetist will explain the pros and cons of each type of anaesthetic to you.



You will usually be given injectable antibiotics before the procedure, after checking for any allergies.

A special telescope is inserted into the bladder to see the stones. These are then broken up using a crushing instrument, a mechanical disintegration probe or a laser. The stone fragments are removed from the bladder and a catheter inserted.

Some surgeons use a laser to fragment the stone into small pieces prior to removal from the bladder.

It is sometimes necessary to combine this operation with prostate surgery in men. Your Urologist will advise you of this if so.

What happens immediately after the procedure?

The catheter will be removed within 24-48 hours following which you will be able to pass urine normally. Some burning, frequency of urination and bleeding are common within the first 24-48 hours after catheter removal.

It is not unusual for a plain X-ray of your abdomen to be performed on the day after surgery to confirm that all the stone fragments have been removed.

The average hospital stay is 5 days.

Are there any side-effects?

Most procedures have a potential for side-effects. You should be reassured that, although all these complications are well-recognised, the majority of patients do not suffer any problems after a urological procedure.

Please use the check boxes to tick off individual items when you are happy that they have been discussed to your satisfaction:

Common (greater than 1 in 10)

- Mild burning or bleeding on passing urine for short period after operation
- Temporary insertion of a catheter
- Need for an additional procedure (e.g. resection of the prostate gland) if this is thought to be the cause of the stone formation

Occasional (between 1 in 10 and 1 in 50)

- Infection of bladder requiring antibiotics
- Permission for telescopic removal/ biopsy of bladder abnormality/stone if found
- Recurrence of stones or residual stone fragments

Rare (less than 1 in 50)

- Delayed bleeding requiring removal of clots or further surgery
- Injury to the urethra causing delayed scar formation
- Very rarely, perforation of the bladder requiring a temporary urinary catheter or return to theatre for open surgical repair

Hospital-acquired infection (overall chance of contracting infection during stay at the West Suffolk Hospital (all wards included))

(obtained from West Suffolk Hospital Infection Control Data June 2009)

- MRSA bloodstream infection (0.0000394 cases per bed day occupancy)
- Clostridium difficile bowel infection (0.0004865 cases per bed day occupancy)

(These rates may be greater in high-risk patients e.g. with long-term drainage tubes, after prolonged hospitalisation or after multiple admissions)

What should I expect when I get home?

When you get home, you should drink twice as much fluid as you would normally for the next 24-48 hours to flush your system through. You may find that, when you first pass urine, it stings or burns slightly and it may be lightly bloodstained.

When you leave hospital, you will be given a “draft” discharge summary of your admission. This holds important information about your inpatient stay and your operation. If, in the first few weeks after your discharge, you need to call your GP for any reason or to attend another hospital, please take this summary with you to allow the doctors to see details of your treatment. This is particularly important if you need to consult another doctor within a few days of your discharge.

What else should I look out for?

If you develop a fever, severe pain on passing urine, inability to pass urine or worsening bleeding, you should contact your GP immediately.

Are there any other important points?

A follow-up appointment will be arranged before your discharge from hospital. If you have any concerns about the timing of further treatment, please discuss this with your named nurse or Consultant.

Is there any research being carried out in this field?

There is no specific research in this area at the moment but all operative procedures performed in the department are subject to rigorous audit at a monthly Audit & Clinical Governance meeting.

Who can I contact for more help or information?

- Uro-Oncology Nurse Specialist 01284 712735
- Urology Nurse Practitioner for 'haematuria clinic', chemotherapy & BCG therapy 01284 712806
- Urology Nurse Practitioner for prostate (transrectal) ultrasound clinic, erectile dysfunction clinic 01284 713229
- Urology Nurse Practitioner for prostate assessment clinic, self catheterisation clinic 01284 713229

Other contacts

Chaplaincy - Telephone 01284 713486

What should I do with this form?

Thank you for taking the trouble to read this information sheet. If you wish to sign it and retain a copy for your own records, please do so below.

If you would like a copy of this form to be filed in your hospital records for future reference, please let your Urologist or Specialist Nurse know.

I have read this information sheet and I accept the information it provides.

Signature.....Date.....