PERCUTANEOUS INSERTION OF A NEPHROSTOMY TUBE
PROCEDURE-SPECIFIC INFORMATION FOR PATIENTS

What is the evidence base for this information?
This publication 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 urological 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?
The procedure involves insertion of a small tube into the kidney (usually under local anaesthetic) which then allows urine to drain from the kidney into a collecting bag outside the body.

What are the alternatives to this procedure?
No treatment (observation only) or insertion of an internal stent under general anaesthetic.

What should I expect before the procedure?
You will usually be admitted on the day of your surgery unless the tube insertion is being performed during an emergency admission.

If your admission is not an emergency, you will normally receive an appointment for pre-assessment 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 4 hours before surgery and, immediately before the procedure, you will be given an injection of antibiotics to prevent infection.

If you have any allergies, you must let your doctor know. If you have previously reacted to intravenous contrast medium (the dye used for kidney X-rays and CT scan), you must tell your doctor about this.

Please be sure to inform your surgeon 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 regular prescription for Warfarin, Aspirin or Clopidogrel (Plavix®)
• a previous or current MRSA infection
• a high risk of variant-CJD (if you have received a corneal transplant, a neurosurgical dural transplant or previous injections of human-derived growth hormone)

At some stage during the admission process, you will be asked to sign the second part of the consent form giving permission for your operation to take place, showing you understand what is to be done and confirming that you wish to proceed. Make sure that you are given the opportunity to discuss any concerns and to ask any questions you may still have before signing the form.

**Fact File 1 • The NHS Constitution**

**Same-Sex Accommodation**

As a result of the new NHS constitution, the NHS is committed to providing same-sex accommodation in hospitals by April 2010. This is because feedback from patients has shown that being in mixed-sex accommodation can compromise their privacy. The NHS pledges that:

- sleeping and washing areas for men and women will be provided
- the facilities will be easy to get to and not too far from patients’ beds

To help accomplish this, the Department of Health has announced specific measures designed to “all but eliminate mixed-sex accommodation” by 2010. These include:

- more money for improvements in hospital accommodation
- providing help and information to hospital staff, patients and the public
- sending improvement teams to hospitals that need extra support
- introducing measures so that the Department can see how hospitals are progressing

**What happens during the procedure?**

You will lie on an X-ray table, generally flat on your stomach, or nearly flat. You may need to have a needle put into a vein in your arm so that the radiologist can give you a sedative or painkillers.

The procedure will be performed by a specially-trained doctor called a radiologist. The radiologist will use either X-rays or ultrasound to decide on the most suitable
point for inserting the fine catheter. You skin will then be anaesthetised with local anaesthetic and a fine needle inserted into the kidney.

Once the radiologist is sure that the needle is in a satisfactory position, a guidewire is placed into the kidney, through the needle, which then enables the plastic catheter to be positioned correctly. The catheter is fixed to the skin of your back and attached to a drainage bag.

The procedure will normally take 20 minutes or so but, occasionally, it may take longer.

**What happens immediately after the procedure?**

In general terms, you should expect to be told how the procedure went and you should:

- ask if what was planned to be done was achieved
- let the medical staff know if you are in any discomfort
- ask what you can and cannot do
- feel free to ask any questions or discuss any concerns with the ward staff and members of the surgical team
- ensure that you are clear about what has been done and what is the next move

Once you return to the ward, the nurses will perform some routine observations of your pulse, temperature and blood pressure. You will generally stay in bed for a few hours until you feel comfortable.

You should avoid making sudden movements, once you are mobile, to ensure that the tube does not get pulled or become displaced. The bag needs to be emptied fairly frequently so that it does not become too heavy.

The nurses will monitor your urine output carefully during this period.

**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.

**Common (greater than 1 in 10)**
- Minor bleeding from the kidney (visible in the urine drainage bag)
- Short-lived discomfort in the kidney and at the insertion site

**Occasional (between 1 in 10 and 1 in 50)**
- Leakage of urine around the catheter inside the abdomen
- Blockage of the drainage tube
- Generalised infection (septicaemia) following insertion

**Rare (less than 1 in 50)**
- Significant bleeding inside the abdomen requiring surgical drainage
- Displacement of the drainage tube
- Failure to place the tube satisfactorily in the kidney requiring alternative treatment (e.g. surgical insertion of a drainage tube)
- Inadvertent damage to adjacent organs (e.g. stomach, bowel)

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

The rates for hospital-acquired infection may be greater in high-risk patients e.g. with long-term drainage tubes, after removal of the bladder for cancer, after previous infections, after prolonged hospitalisation or after multiple admissions.

**What should I expect when I get home?**
By the time of your discharge from hospital, you should:

- be given advice about your recovery at home
- ask when to resume normal activities such as work, exercise, driving, housework and sexual intimacy
- ask for a contact number if you have any concerns once you return home
- ask when your follow-up will be and who will do this (the hospital or your GP)
- ensure that you know when you will be told the results of any tests done on tissues or organs which have been removed

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 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.

The drainage tube will remain in place for an appropriate length of time which will be determined by your urologist.

Keep the skin around the nephrostomy tube clean and, to prevent infection, place a sterile dressing around the site where the tube leaves your skin. Dressings should be changed at least twice a week, especially if they get wet.

You may shower or bathe 48 hours after the tube has been inserted but try to keep the tube site itself dry. You can protect the skin with plastic wrap during showering or bathing. After 14 days, you may shower without any protection for the tube.

Swimming is not recommended as long as the tube is in place.

**What else should I look out for?**
If you experience a high temperature, back pain, redness or swelling around the tube, leakage of urine from the drainage site, poor (or absent) drainage or if the tube falls out, you should contact your doctor immediately.
Are there any other important points?
Any subsequent follow-up or treatment will be arranged by your urologist before your discharge.

If your tube needs to be removed at any stage, this must be performed in hospital and you should contact your urologist or Specialist Nurse.

Driving after surgery
It is your responsibility to ensure that you are fit to drive following your surgery. You do not normally need to notify the DVLA unless you have a medical condition that will last for longer than 3 months after your surgery and may affect your ability to drive. You should, however, check with your insurance company before returning to driving. Your doctors will be happy to provide you with advice on request.

Is there any research being carried out in this area?
Before your operation, your surgeon or Specialist Nurse will inform you about any relevant research studies taking place, and, in particular, if any surgically-removed tissue may be stored for future study. If this is the case, you will be asked if you wish to participate and, if you agree, to sign a special form to consent to this.

All surgical procedures, even those not currently the subject of active research, are subjected to rigorous clinical audit so that we can analyse our results and compare them with those of other surgeons. In this way, we can learn how to improve our techniques and our results; this means that our patients will get the best treatment available.

What should I do with this information?
Thank you for taking the trouble to read this publication. 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 publication to be filed in your hospital records for future reference, please let your Urologist or Specialist Nurse know. However, if you do agree to proceed with the scheduled procedure, you will be asked to sign a separate consent form that will be filed in your hospital. You will, if you wish, be provided with a copy of the consent form.

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

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

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How can I get information in alternative formats?
Please ask your local NHS Trust or PALS network if you require this information in other languages, large print, Braille or audio format.

Most hospitals are smoke-free. Smoking increases the severity of some urological conditions and increases the risk of post-operative complications. For advice on quitting, contact your GP or the NHS Smoking Helpline free on 0800 169 0 169

Disclaimer
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Fact File 2 • The NHS Constitution
Patients’ Rights & Responsibilities

The constitution, as a result of extensive discussions with staff and the public, sets out new rights for patients which will help improve their experience within the NHS. These new rights include:

- a right to choice and a right to information that will help them make that choice
- a right to drugs and treatments approved by NICE when it is considered clinically appropriate
- a right to certain services such as an NHS dentist and access to recommended vaccinations
- the right that any official complaint will be properly and efficiently investigated, and that they be told the outcome of the investigations
- the right to compensation and an apology if they have been harmed by poor treatment

The constitution also lists patient responsibilities, including:

- providing accurate information about their health
- taking positive action to keep themselves and their family healthy
- trying to keep appointments
- treating NHS staff and other patients with respect
- following the course of treatment that they are given
- giving feedback, both positive and negative, after treatment

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