

RADIOLOGICAL EMBOLISATION (BLOCKING) OF A VARICOCELE

Information about your procedure from The British Association of Urological Surgeons (BAUS)

This leaflet contains evidence-based information about your proposed urological procedure. We have consulted specialist surgeons during its preparation, so that it represents best practice in UK urology. You should use it in addition to any advice already given to you.

To view the online version of this leaflet, type the text below into your web browser:

http://www.baus.org.uk/_userfiles/pages/files/Patients/Leaflets/Varico emb.pdf

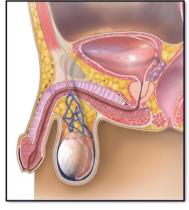
Key Points

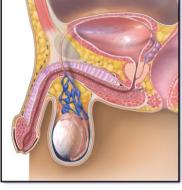
- Radiological embolisation is a minimally invasive way of treating a varicocele (abnormal. swollen varicose veins above your testicle)
- Eight out of 10 patients (80%) have a successful outcome from this procedure
- Varicocele embolisation is less invasive than surgery and is done under local anaesthetic
- There is no significant risk of testicular atrophy (shrinkage) or development of a hydrocele (fluid around your testicle) compared with surgical approaches

What does this procedure involve?

A varicocele is a collection of enlarged veins that drain blood from the testicle (pictured), like varicose veins in the leg.

Embolisation is a way of blocking these veins, making them less obvious and causing the varicocele to shrivel away without surgery.





Normal

Varicocele

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What are the alternatives?

- Observation no treatment if your varicocele is small and causes no symptoms
- Open surgery either using standard or microsurgical clipping of the veins through a small incision in your groin
- Laparoscopic repair clipping the varicose veins using a telescope put into your abdominal (tummy) cavity Surgical repair of a varicocele (open or laparoscopic) needs a general anaesthetic, is performed in an operating theatre and requires a period of recovery afterwards.

What happens on the day of the procedure?

Your radiologist (or a member of radiology staff) will briefly review your history and medications, and will discuss the procedure with you to confirm

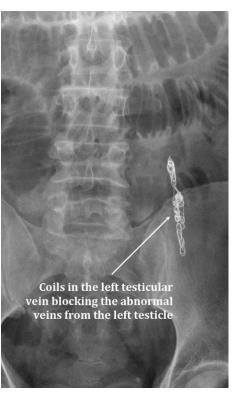
your consent.

Details of the procedure

The procedure is done by a specially-trained X-ray doctor called an **interventional** radiologist.

He/she will have special expertise with X-ray or ultrasound equipment, and will use imaging techniques to help during the embolisation procedure.

- varicocele embolisation is normally performed in a surgical area of the Xray Department under sterile conditions
- you may be given an injection of antibiotics before the procedure, after you have been checked carefully for any allergies
- the interventional radiologist will inject local anaesthetic into your neck or groin
- once the skin is numb, he/she will put a needle into a large vein under the skin
- a guidewire is passed through the needle, followed by a narrow tube (catheter), which is steered under X-ray control into the enlarged vein that drains blood from the testicle
- when this tube is in the correct position, the radiologist will inject coils (pictured) or a special liquid to stop the flow of blood from the



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testicle

- they will take further X-rays to confirm that the abnormal veins have been blocked completely
- the X-ray catheter will be removed and the interventional radiologist will press firmly on the skin puncture point for several minutes to prevent any bleeding

You will usually go to a Radiology Day Area for monitoring over the next three to four hours. A nurse will regularly check your blood pressure and pulse, and keep a careful eye on the puncture site to be sure there is no bleeding.

We normally ask you to stay in bed for an hour after the procedure. Most patients go home later the same day but, very occasionally, you may need to stay overnight.

Are there any after-effects?

The possible after-effects and your risk of getting them are shown below. Some are self-limiting or reversible, but others are not. We have not listed very rare after-effects (occurring in less than 1 in 250 patients) individually. The impact of these after-effects can vary a lot from patient to patient; you should ask your surgeon's advice about the risks and their impact on you as an individual:

After-effect	Risk
Bruising at the skin puncture site	Between 1 in 2 & 1 in 10 patients
Pain around the puncture site which can sometimes worsen in the days after the procedure	Between 1 in 2 & 1 in 10 patients
Back pain for 48 to 72 hours after the procedure	Between 1 in 2 & 1 in 10 patients
Infection at the skin puncture site requiring antibiotics or surgical drainage	Between 1 in 10 & 1 in 50 patients

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Recurrence of the varicocele Damage to, or bleeding from, the punctured vein requiring surgical repair Between 1 in 10 & 1 in 50 patients Between 1 in 50 & 1 in 250 patients

What is my risk of a hospital-acquired infection?

Your risk of getting an infection in hospital is approximately 8 in 100 (8%); this includes getting *MRSA* or a *Clostridium difficile* bowel infection. This figure is higher if you are in a "high-risk" group of patients such as patients who have had:

- long-term drainage tubes (e.g. catheters);
- bladder removal;
- long hospital stays; or
- multiple hospital admissions.

What can I expect when I get home?

- you should rest at home for the remainder of the day
- you can resume normal activities after 24 hours
- simple painkillers such as paracetamol should help any discomfort you get
- the veins above your testicle often become more prominent and tender in the first few days after the procedure; gradually, this becomes less obvious although the veins may not disappear completely
- any antibiotics or other tablets you may need will be arranged & dispensed from the hospital pharmacy
- a follow-up appointment will be made for you
- if you develop a temperature, increased redness or discharge of pus from the site of the puncture, contact your GP or the surgical team looking after you
- bleeding from the puncture site when you get home is very rare but, if it does happen, press firmly on the site for 10 to 20 minutes; this should stop the bleeding
- if the bleeding does not stop, you should contact your GP or go to your local Accident & Emergency Department

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General information about surgical procedures

Before your procedure

Please tell a member of the medical team if you have:

- an implanted foreign body (stent, joint replacement, pacemaker, heart valve, blood vessel graft);
- a regular prescription for a blood thinning agent (warfarin, aspirin, clopidogrel, rivaroxaban or dabigatran);
- a present or previous MRSA infection; or
- a high risk of variant-CJD (e.g. if you have had a corneal transplant, a neurosurgical dural transplant or human growth hormone treatment).

Before you go home

The radiologist will tell you how the procedure went and you should:

- make sure you understand what has been done;
- ask if everything went as planned;
- let the staff know if you have any discomfort;
- ask what you can (and cannot) do at home;
- make sure you know what happens next; and
- ask when you can return to normal activities.

We will give you advice about what to look out for when you get home. Your radiologist or nurse will also give you details of who to contact, and how to contact them, in the event of problems.

Smoking and surgery

Ideally, we would prefer you to stop smoking before any procedure. Smoking can worsen some urological conditions and makes complications more likely after surgery. For advice on stopping, you can:

- contact your GP;
- access your local NHS Smoking Help Online; or
- ring the free NHS Smoking Helpline on **0800 169 0 169**.

Driving after surgery

It is your responsibility to make sure you are fit to drive after any procedure. You only need to <u>contact the DVLA</u> if your ability to drive is likely to be affected for more than three months. If it is, you should check with your insurance company before driving again.

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What should I do with this information?

Thank you for taking the trouble to read this information. Please let your urologist (or specialist nurse) know if you would like to have a copy for your own records. If you wish, they can also arrange for a copy to be kept in your hospital notes.

What sources were used to prepare this leaflet?

This leaflet uses information from consensus panels and other evidence-based sources including:

- the <u>Department of Health (England)</u>
- the Cochrane Collaboration
- the National Institute for Health and Care Excellence (NICE)
- the Royal College of Radiologists
- the <u>British Institute of Radiology</u>

It also follows style guidelines from:

- the Royal National Institute for Blind People (RNIB);
- the Patient Information Forum; and
- the Plain English Campaign.

Disclaimer

We have made every effort to give accurate information but there may still be errors or omissions in this leaflet. BAUS cannot accept responsibility for any loss from action taken (or not taken) as a result of this information.

PLEASE NOTE

The staff at BAUS are not medically trained, and are unable to answer questions about the information provided in this leaflet. If you do have any questions, you should contact your urologist, specialist nurse or GP.

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