Your Consultant /Doctor has advised you to have

Open repair of an Abdominal Aortic Aneurysm

What is an aneurysm?

An aneurysm is a dilated or stretched blood vessel caused by weakness of the arterial wall. The commonest artery affected is the aorta in the abdomen. Men over 65 are the patient group most at risk with 4 in 100 affected. The incidence increases with age. Risk factors are family history high blood pressure and smoking.

What is Open repair?

Conventional open aneurysm repair is a major operation in which a bypass graft made of a knitted or woven tube of material (Dacron) is sewn into place inside the dilated aneurysm. If the aneurysm involves the main branches of the aorta (iliac arteries), or if these arteries are blocked with atheroma (hardening of the arteries), the bypass graft will be shaped accordingly with two legs of graft arising from a larger diameter tube. This is sometimes called a ‘trouser graft’.

What are the benefits of having an open repair of aneurysm?

The aim of the operation is to exclude high pressure blood flow from the aneurysm and to stop the aneurysm from expanding. Aortic aneurysms larger than 55mm diameter have an increased risk of rupture and are recommended for surgical repair.
Although the immediate risks of conventional open aneurysm repair are greater than endovascular repair with a stent the open procedure may be the only option for reasons of anatomy.

Seven out of ten aneurysms are suitable for either endovascular or open repair – Three out of ten can only be repaired by an open technique. The mortality risks of endovascular repair and open repair are equal after five years.

What are the risks?

Common risks (greater than 1 in 10) include bruising and possible bleeding from the wound.

Occasional risks (between 1 in 10 and 1 in 100) include embolism (moving debris or blood clot) from the aneurysm down the legs or thrombosis of the graft leading to lack of blood supply to the legs. Additional procedures may be needed to avoid loss of a limb.

As with any operation, you may develop a chest infection. This is more likely if you smoke. It may need treatment with antibiotics and physiotherapy.

Occasionally, a collection of blood forms around the wound. This is called a haematoma. If this is small it may disperse by itself, but larger haematomas will need to be evacuated in a second operation.

Collections of lymph may also occur around the aorta and need to be drained. Infection of the wound is a small risk (1 in 100) – infection of the bypass graft is less common than this but is a serious complication.
The abdominal incision can weaken the abdominal wall and form a hernia early on or after a period of several years.

A heart attack or disturbance of heart rhythm may also occur in 1 in 100 patients. This may lead to medical treatment especially if the heart is weakened (heart failure).

Disturbance of bowel habit may be caused by the procedure or by painkiller medications.

Some patients develop abdominal adhesions inside the abdomen that can lead to obstruction (blockage) of the small intestine.

Less common, rare risks (less than 1 in 100) include superficial nerve injury to the leg causing an area of permanent numbness or weakness/paralysis of the leg.

Swelling of a leg may occur with the possibility of deep vein thrombosis or pulmonary embolism.

Internal bleeding from damage to an internal artery is possible – this may require further open surgery.

Ischaemia (lack of blood supply) to the bowel is a very serious complication that may result in a colostomy or even be fatal is fortunately very rare.

Paraplegia (spinal paralysis) is another rare complication of any abdominal aortic surgery.

Risks of stroke, transient ischaemic attack (stroke symptoms lasting less than 24 hours) and kidney failure requiring dialysis are small risks but may be fatal.

Retrograde ejaculation and erectile impotence can occur in men as a result of the operation.
The immediate fatal risk of open abdominal aortic surgery is 5 in 100.

Are there any alternatives available?

Endovascular (EVAR) aneurysm repair of an abdominal aortic aneurysm may be advised if the anatomy of your aneurysm is suitable. The planning CT scan will identify any factors that determine whether open or endovascular surgery is the best procedure for you. Some patients may be medically unfit for any surgery to the aneurysm.

What happens if I decide not to have treatment?

Your aneurysm may expand to the point of rupture. The majority of patients (nine out of ten) do not survive aneurysm rupture.

What sort of anaesthetic will be given to me?

You will be given a general anaesthetic. General anaesthesia is drug-induced unconsciousness: it is always provided by an anaesthetist, who is a doctor with specialist training.

Unfortunately, general anaesthesia can cause side effects and complications. Side effects are common, but are usually short-lived: they include nausea, confusion and pain.

Complications are very rare, but can cause lasting injury: they include awareness, paralysis and death.

There is a risk of damage to teeth, particularly caps or crowns and veneers. Your anaesthetist will take every care, but occasionally damage can occur.
The risks of anaesthesia and surgery are lower for those who are undergoing minor surgery, and who are young, fit, active and well.

For more information, please ask for a copy of the leaflet “You and Your Anaesthetic” (PIF 344).

You will be given an opportunity to discuss anaesthetic options and risks with your anaesthetist before your surgery.

If you are worried about any of these risks, please speak to your Consultant or a member of their team.

Getting ready for your operation

- You will usually be seen in the pre-operative clinic before you are admitted to hospital. Here you will have blood tests, and sometimes a heart trace or a chest X-ray. You will be assessed to see if you are fit for the anaesthetic.
- The staff will ask routine questions about your health, the medicine you take at the moment and any allergies you may have.
- You will be given instructions on eating and drinking before your operation.
- You will be able to discuss the operation with a doctor. You will be asked to sign a consent form to say that you understand the procedure, and what the operation involves.
- If you smoke, you should stop completely. The risks of stroke are greatly increased in smokers and there are additional risks of heart attack and lung disease with surgery. Advice and help is available via your physician, GP and through NHS Direct.
The day of your operation

You will come into hospital on the day of your operation. Please make sure you contact the ward before you leave home to check bed availability.

- Please leave all cash and valuables at home. If you need to bring valuables into hospital, these can be sent to General Office for safekeeping. General Office is open between 8.30 and 4.30 Monday to Friday. Therefore, if you are discharged outside these times we will not be able to return your property until General Office is open. The Trust does not accept responsibility for items not handed in for safekeeping.
- Please bring any medication you take into hospital with you.
- Please bring in toiletries, nightwear and towels.
- You will be asked to remove jewellery - plain band rings can be worn but they will be taped.
- Please leave body piercings at home. False nails and nail polish will also need to be removed if worn.
- If you are on regular medication, you will be told to take this if necessary.
- You will be asked to put on a gown and disposable underwear.
- A bracelet with your personal details will be attached to your wrist.
- You may be prescribed some medication to take before your operation by the anaesthetist. A member of the nursing staff will give this to you.
- A nurse and porters will take you to the operating theatre.
- Your dentures, glasses or hearing aid can stay with you on your journey to the operating theatre.
- When you arrive in the theatre area, the ward nurse will leave you, and you will be asked to put on a disposable hat.
- You will then be taken to the anaesthetic room and a member of theatre staff will check your details with you.
What should I expect after my operation?

- After your operation you will be kept in the theatre recovery room before being transferred to the critical care unit (ITU or HDU).
- A nurse will check your pulse, blood pressure, breathing rate and urine output regularly. We will also carefully monitor your wound for any bleeding or swelling.
- **It is important that if you feel any pain you must tell the nursing staff, who can give you painkillers to help.**
- The nursing staff will also advise you when you can start taking sips of water. Anaesthetics can make some people sick. If you feel sick we advise you not to drink until this feeling has passed. The nursing staff may offer you an injection to help this sick feeling go away.
- After a few days, you will be allowed to sit out, drink and eat. Return to mobility can take a few more days.

**Going Home**

You will normally be allowed home after ten days.

**Discharge Information**

**Pain relief and medication**

The nursing staff will advise you about painkillers before you leave the hospital. Please tell the nurses what painkilling tablets you have at home.

**Your wound**

The surgeon usually uses a dissolvable suture (stitch) in which case you may not require the District Nurse.
Getting back to normal

You will probably feel tired for several months after the operation. Build up your activity level slowly and ensure you get enough rest. You should avoid strenuous activity for about six weeks.

You will be safe to drive when you can do an emergency stop and drive without discomfort. This will normally be at about four weeks but if in doubt, check with your doctor. Avoid long distances and motorway driving at first.

Returning to work

Depending on your job, you will be able to resume in two to three months. If in doubt, please ask your doctor. Avoid any heavy exercise or lifting for six weeks.

Further Appointments

You will have a follow up appointment in outpatients about six weeks and three months after the operation.

Medication

You will need some antiplatelet medication such as aspirin or clopidogrel 75 mg daily unless you have a medical contraindication to both.

Please take any other medication that has been prescribed e.g. for high blood pressure or high cholesterol, and ensure that you have regular blood pressure and cholesterol tests. Your family doctor (GP) or practice nurse can do this.
Vascular “LiVES” Contact Numbers

Royal Liverpool Vascular Wards
Ward 8A – 0151 706 2385 or 2387  Ward 8Y – 0151 706 2488 or 2082

Vascular Specialist Nurses
Royal Liverpool 0151 706 2000 request Bleep 4212
Aintree 0151 525 5980 request Bleep 5609
         Direct Line 0151 529 4961/2
Southport Direct Line 01704 705124
Whiston Direct Line 0151 290 4508

Vascular Secretaries
Royal Liverpool Torella / Naik 0151 706 3481
         Brennan / Jones 0151 706 3419
         Vallabhaneni / Joseph 0151 706 3457
         Neequaye / Scurr 0151 706 3691
         Fisher / Smout 0151 706 3447

Aintree Fisher / Smout / 0151 529 4950
         Torella / Naik
         Vallabhaneni / Joseph 0151 529 4953
Southport Brennan / Jones 01704 704665

Whiston Scurr 0151 430 1499
         Neequaye 0151 676 5611
Circulation Foundation:  

Smoking cessation:  
- Liverpool 0800 061 4212  
- Sefton 0300 100 1000  
- West Lancashire 0800 328 6297

Liverpool Vascular and Endovascular Service  
Royal Liverpool University Hospital  
Prescot Street  
Liverpool  
L7 8XP  
Tel: 0151 706 2000  
www.rlbuht.nhs.uk

Participating Hospitals in LiVES are:

- The Royal Liverpool and Broadgreen University Hospitals  
- University Hospital Aintree  
- Southport District General Hospital  
- Ormskirk District General Hospital  
- Whiston & St Helens Hospitals

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All Trust approved information is available on request in alternative formats, including other languages, easy read, large print, audio, Braille, moon and electronically.

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