



Information for
patients and
carers

Understanding Axillofemoral Bypass Graft

Why do I need the operation?

There is a narrowing or blockage in the main arteries in your abdomen (the aorta and iliac arteries) which are responsible for taking blood to your legs. This is caused by hardening of the arteries (atherosclerosis). Over the years cholesterol and calcium have built up inside the arteries and caused this narrowing or blockage. The operation you are having is to bypass the blocked arteries by taking blood from one of your arm arteries to the femoral (groin) arteries which hopefully will improve the blood supply.

Benefits of the surgery

- You should be able to walk comfortably for longer distances
- Limb salvage (to save the leg)
- The pain you are having should be reduced
- If your sleep was disturbed by pain at night, it is expected to improve
- Any ulcers you have should heal with time

Risks of surgery

- Graft failure - immediate/delayed
- Heart attack (Myocardial infarction (MI))
- Stroke
- 3-5% mortality (Can vary widely depending on your pre-op condition)
- 1-5% limb loss
- Graft infection (this is uncommon but would require long term antibiotics and possibly surgery to remove the graft)
- Kidney damage
- Chest Infection
- Wound infection
- Fluid leak from the groins
- Deep vein thrombosis
- Bleeding

- Nerve damage
- Deep vein thrombosis (DVT)/Pulmonary embolism (PE) - blood clots in the legs/lungs

How can I help myself?

The risk factors for developing disease in the arteries include smoking, high blood pressure, poorly controlled diabetes, high cholesterol and being overweight. By now, your risk factors should have been treated. You should be taking an aspirin or alternative antiplatelet tablet/anticoagulant and a statin to reduce cholesterol. If you have high blood pressure you will have medication to control this.

Smoking

If you are still smoking it is important that you give up. Smoking speeds up the process of hardening of the arteries and clamps down on the small collateral vessels (extra small blood vessels that are attached to the main arteries), reducing the amount of blood and oxygen going to the muscles. There is scientific evidence that your bypass graft is more likely to fail if you continue to smoke. There is help available to everyone who wants to give up smoking. You can access this via your GP or local stop smoking service.

Exercise - Walking

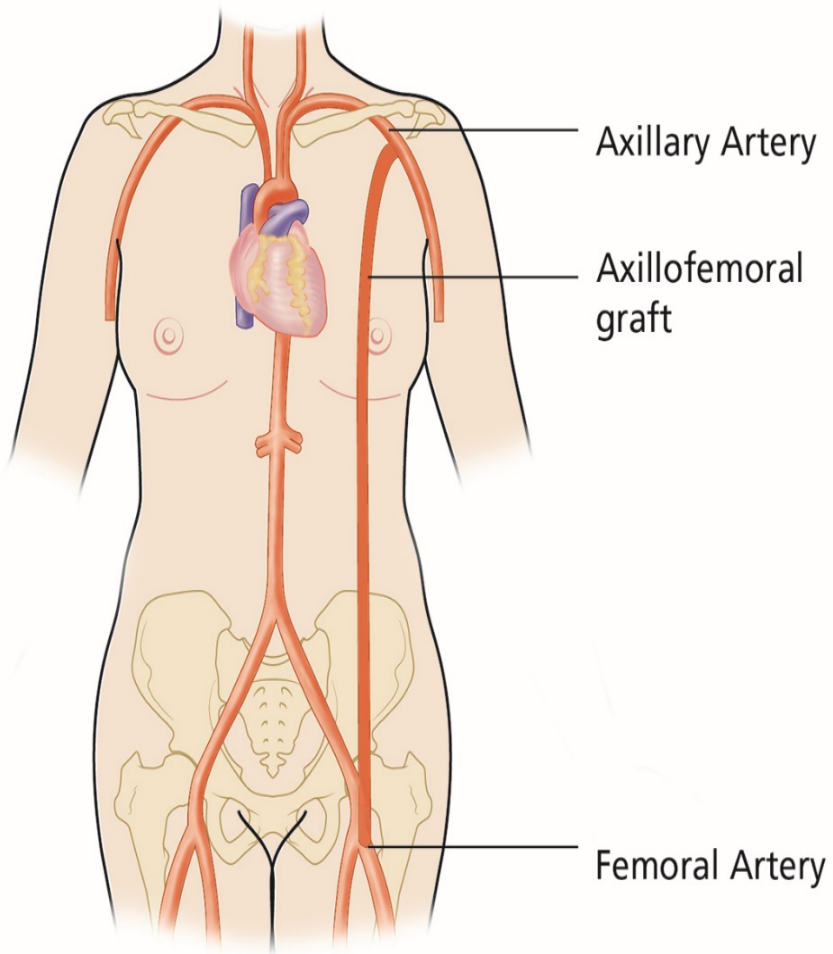
There is evidence that people who take regular exercise develop better circulation. Walk at an easy pace until you experience pain then stop and continue again when the pain disappears. Try to walk a little further each day and you should find that the distance you can manage without pain steadily increases.

If you are overweight, try to lose weight. If you require help with weight reduction or diet you can discuss this with your GP or dietitian (if you have access to one at your GP surgery). If you have high cholesterol you will need a low-fat diet.

Before the operation

You will have a number of tests to determine the extent of the blockage and the procedure required. If you are not already in hospital, you will be asked to attend the hospital for a pre- operative assessment before your operation. This will allow time for tests to be done to ensure you are fit for surgery. You will be able to talk to one of the vascular specialist nurses who will answer any questions you have. You will be given instructions about medication (if any) you may need to stop taking before the operation.

You will be admitted on the day of the operation (a letter will be sent to you with instructions including when to stop eating and drinking). The nurses will help you to prepare for theatre. You will be given a general anaesthetic (this is the only option for this operation). You will be visited by the anaesthetist who will explain the anaesthetic and give you the opportunity to ask any questions. If you are diabetic, care will be taken to monitor and control your blood sugars. This may require a needle in your arm with a special drip called a sliding scale.



The operation

You will be taken to the anaesthetic room where your details will be checked. You will have some heart monitoring stickers placed on your chest, so the anaesthetist can monitor your heart during the operation. You may have a tube placed in your bladder (a catheter) to drain your urine. This will be discussed with you.

In theatre, the surgeon will make an incision to the skin on your shoulder and at either one or both of your groins. An artificial tube (graft) will be attached to the axillary artery (arm artery) and tunneled down (passed down under the skin) to the femoral artery in your groin(s) to bypass the narrowing/blockage in your abdomen.

The surgeon will close your wound with metal staples, non-removable or dissolvable stitches. You may also have a drain (a fine tube which allows drainage of excess fluid) in your wound, which is usually removed 24-48 hours after surgery.

After the operation

From theatre, you will be taken to the recovery room until you wake up. You may have a tube in your arm through which we can give you any fluids or antibiotics. You will have an oxygen mask on and will be advised when this can be removed. You should be able to eat and drink as normal as soon as you feel able to. If you are diabetic, your blood sugars will be monitored, and you can take your normal medication once you are eating again.

The nurses will regularly monitor your blood pressure, pulse, temperature, respiratory rate and oxygen levels (observations). The colour, warmth, sensation, movement and pulses of your feet will also be regularly monitored.

It will be important to keep your lungs clear by way of intermittent deep breathing and attempts to cough up any secretions so as to reduce the risk of a chest infection. You may receive help from a physiotherapists to achieve this.

Pain control

The anaesthetist will discuss with you the options for post-operative pain control.

An epidural may be used during surgery to supplement a general anaesthetic and continue after the operation for pain control. The nerves to your lower back pass through an area close to your spine called the 'epidural space', the anaesthetist uses a needle to place a fine plastic tube (an epidural catheter) into the epidural space. Local anaesthetic and sometimes other pain relief medicine are put through this catheter to block the pain messages and relieve the pain.

Other pain-relieving medicines e.g. morphine can be put into a pump called a patient controlled analgesia pump (PCA). The pump will be connected to a vein in your hand or arm and you will be able to press a button to deliver a pre-set dose of the pain relief medicine.

As your condition improves the PCA or epidural will be removed, and you will be given pain relief medicines in either tablet or liquid form. Every effort will be made to keep you as comfortable as possible following your operation.

What happens over the next few days?

You will be asked to stay in bed and rest immediately after surgery and overnight. Nurses will assist you with personal care needs. To prevent pressure ulcers, chest infections and deep vein thrombosis you will be advised to move regularly in bed and will be helped with this if required.

You will be reviewed by the duty vascular consultant or one of their team every day of your stay in hospital.

The first day after your operation you will either be advised by your consultant to stay in bed and rest or you may be able to sit out in your chair with your legs elevated, this will depend on how you are feeling.

Over the next few days you will be encouraged to walk. If required,

you will be visited by the physiotherapist who will assess your mobility, provide you with some exercises to do and possibly offer you a walking aid if necessary. Once you are mobile your catheter will be removed.

Depending on your condition you will be in hospital for approximately 5-7 days depending on your condition. If you need help at home please inform the nursing staff.

Your wound

Your wounds will be carefully monitored, and dressings will be removed and changed when necessary. The groin is an area where infection can easily occur and should be kept clean and dry at all times. The groin wounds can leak clear fluid called lymph and will require regular dressings. This should settle with time.

If your wounds were closed with staples or stitches that need removing this is usually done on day 8-10 after the operation. Your practice nurse or district nurse will remove your staples or stitches.

As you return to normal activity you may find your wounds cause you some discomfort for a few weeks. During the operation the surgeon will cut some small nerves near to the skin. This results in some numbness around the wounds, a burning or pins and needles sensation down your leg. This should settle in time but may not completely disappear. Your scars will fade after 6-12 months.

Your legs may be swollen after surgery. This is caused by fluid from the cells collecting under the skin and is a normal reaction to surgery. You should alternate between periods of gentle walking and rest with your leg elevated. Do not stand for long periods during the first month after the operation.

At home

You may feel tired for several weeks after the operation, but this should gradually improve as time goes by.

You should be able to resume normal activities when you feel well enough. Regular exercise such as short walks combined with rest is recommended for the first few weeks. Avoid heavy lifting, strenuous activity or over stretching for 4-6 weeks.

Bathing: You may bath or shower as soon as your wound is dry, even if you have stitches or staples.

Work: You may be able to return to work within 6 weeks of surgery depending on your operation. Please let the doctors know if you need a sick note prior to discharge.

Driving: You can drive when you can safely perform an emergency stop. This will usually be 6 weeks after surgery, but if in doubt check with your GP and your insurance policy, or wait until your follow-up clinic appointment.

Follow-up: You will be followed up in the vascular out-patients clinic, approximately 4-8 weeks after your operation, at your local hospital.

When to seek help

If you develop sudden pain, numbness, coldness or change of colour in the leg contact your GP or go to your local A&E Department immediately as it could indicate that the bypass has blocked.

If you develop any sudden swelling and pain in your calf contact your GP or go to your local A&E Department as this could indicate a deep vein thrombosis (DVT).

If you notice that your wound site is red, inflamed or discharging pus or fluid contact your GP immediately as you may require antibiotics.

If you have any worries or questions before admission or after discharge, please do not hesitate to contact the vascular specialist nurses for advice.

This leaflet is intended as a guide. Everyone is different and recovery may vary from one person to the next.

Contact details

Should you require further advice or information please contact:

Vascular Specialist Nurses:

Preston/ Chorley site - 01772 523757 or via switch board on 01772 71655 and ask for bleep 4605 or 4606.

Blackpool site: Via switch board 01253 300000 and ask them to contact the Vascular Specialist Nurse.

Royal Lancaster hospital: Via switch board 01524 65944 and ask them to contact the Vascular Specialist Nurse.

Furness General: Via switch board 01229 870870 and ask them to contact the Vascular Specialist Nurse.

Vascular secretaries:

Preston/ Chorley/ Blackpool/ Lancaster/ Kendal /Furness General Hospital:

Via switch board: 01772 716565

Wigan Wrightington and Leigh:

01942 264057 01942 822068

Sources of further information

www.lancsteachinghospitals.nhs.uk

www.nhs.uk

www.patient.co.uk

www.accessable.co.uk

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If you want to stop smoking you can also contact the Quit Squad Freephone 0800 328 6297.

Please ask if you would like help in understanding this information.
This information can be made available in large print and in other languages.

Cantonese:

如果你希望以另外一種格式接收該資訊，請和我們聯絡，不必猶豫。

Gujarati:

જો તમને આ માહિતી બીજી રચના કે ફોર્મેટમાં મેળવવાની ઈચ્છા હોય, તો કૃપા કરી અમારો સંપર્ક કરતા અચકાશો નહિ.

Hungarian:

Kérjük, vegye fel velünk a kapcsolatot, ha más formában kéri ezt az információt.

Polish:

Jeżeli chciał(a)by Pan/Pani otrzymać niniejsze informacje w innym formacie, prosimy o kontakt.

Punjabi:

ਜੇ ਤੁਸੀਂ ਕਿਸੇ ਹੋਰ ਫਾਰਮੈਟ ਵਿਚ ਇਹ ਜਾਣਕਾਰੀ ਲੈਣਾ ਚਾਹੁੰਦੇ ਹੋ ਤਾਂ ਸਾਡੇ ਨਾਲ ਸੰਪਰਕ ਕਰਨ ਤੋਂ ਨਾ ਝਿਜਕੋ।

Urdu:

اگر آپ اس معلومات کو کسی اور صورت میں حاصل کرنا چاہتے ہیں تو برائے مہربانی ہم سے رابطہ کرنے میں ہچکچاہٹ محسوس نہ کریں۔

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Division: Surgery

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