



BATH RADIOLOGY

Vascular Ultrasound Patient Information Leaflet

Introduction

This leaflet tells you about Ultrasound of the blood vessels, a test to look at the main blood vessels in the limbs, most commonly the legs. It explains how the test is done, what to expect, and the risks involved. It is not meant to replace informed discussion between you and your doctor, but can act as a starting point for such a discussion.

What is Ultrasound of Peripheral Blood Vessels?

Ultrasound is a non-invasive way of looking inside your body to help diagnose medical conditions and guide treatment. An ultrasound scanner uses high-frequency sound waves and computers to produce pictures of the organs and other structures inside the body. These images of the inside of the body can then be examined on a computer monitor.

The ultrasound examination is performed by a Radiologist, who is a doctor specially trained to carry out imaging examinations and to interpret the images. Some ultrasound examinations may be performed by a Sonographer, who is a health professional highly trained to carry out these examinations. The Radiologist or Sonographer uses a hand-held device called a transducer, which is moved across the body surface and transmits the sound waves into your body. These sound waves are reflected back to the transducer from the different structures and tissues inside the body. The returning sound waves are converted by a computer into a moving image of the internal structures of the body, and the images are displayed on a computer screen.

Doppler ultrasound detects changes in sound waves reflected off moving blood cells in blood vessels and is particularly useful to evaluate blood flow within arteries and veins. It can identify blocked or reduced blood flow through narrowing of the arteries, enlargement of an artery (aneurysm) and can detect blood clots in leg veins.

Ultrasound scanning does not use ionizing radiation (x-rays) and is considered a very safe test. For this reason it is often the preferred imaging test in pregnant women and children

What do I have to do before my Ultrasound?

There is no preparation prior to this test. You should continue to take your normal medication.

Where do I go when I arrive at the hospital?

Please report to the reception desk in the Radiology department with your appointment letter 10 minutes before your appointment time. You will be asked to sit in the waiting area until called by a member of staff. A member of the team will explain the test and answer any questions.

You should wear clothing that allows easy access to the area that is being examined. If you have to undress for the procedure, you will be shown to a private cubicle and asked to change into a clean gown. You will be asked to remove all jewellery and metal from the area to be scanned. Your clothes and valuables will be secured in a locker until after the procedure.

Can I bring a relative/friend?

You may bring a relative or friend with you to the appointment and, if you wish, they will usually be able to accompany you in the examination room.

If you need an interpreter please tell us when you receive your appointment so that we can arrange this.

What happens during the Ultrasound scan?

You will be taken into the Ultrasound Scanning Room and asked to lie down on the examination couch. The area to be examined is exposed while the rest of the body is covered. The lighting in the room is usually dimmed in order to see the pictures more clearly.

The Radiologist / sonographer will apply clear gel to your skin before placing the "transducer" (a smooth hand held device) onto this area using gentle pressure. The transducer is moved across the area with a sliding and rotating action and the real-time images are displayed on the computer screen. The Radiologist / sonographer records still pictures from the moving images on the screen.

Occasionally it may be necessary for the Radiologist/sonographer to apply greater pressure with the transducer in order to see or assess deeper structure. However, if any of these manoeuvres cause you concern or discomfort, you should inform the Radiologist / sonographer immediately.

The examination takes approximately 10-20 minutes to perform.

What happens after the test?

When the examination is finished the gel is wiped off and you will be able to dress and leave immediately.

Are there any risks?

Ultrasound is considered a very safe examination. It is non-invasive and does not use ionizing radiation (X-rays).

Tenderness in the area that has been examined is uncommon and usually resolves within a few hours of the examination.

How do I get my results?

The Radiologist / sonographer who performed the examination will review the images and send a report to your doctor. Your GP or hospital Consultant who referred you for the test will see you to discuss the results.

Any further questions?

We will do our best to make your visit as comfortable and stress free as possible. If you have any further questions, or suggestions for us, please let us know.

If you would prefer information and advice in another language, please contact the Radiology department.

Further Information

For general information about Radiology departments, visit The Royal College of Radiologists' website: www.goingfora.com

For health advice or information you can call NHS Direct on 0845 4647 or visit the website: www.nhsdirect.nhs.uk

© Bath Radiology Group, September 2011.

Legal notice

Please remember that this leaflet is intended as general information only. It is not definitive, and The Bath Radiology Group cannot accept any legal liability arising from its use. We aim to make the information as up to date and accurate as possible, but please be warned that it is always subject to change. Please therefore always check specific advice on the procedure or any concerns you may have with your doctor.