

Patient information factsheet

Magnetic resonance imaging (MRI) cardiac and chest scan

We have given you this factsheet because you have an appointment for an MRI scan of your heart (cardiac) or chest. It explains what an MRI scan is and what to expect at your appointment.

Your appointment letter will also give you details of your appointment date and other useful information. Please check the date and let us know if you will not be able to attend, so that another appointment can be arranged for you.

We hope this factsheet will help to answer your questions about the scan and prepare you for your appointment. If you have any questions, please contact the team using the details at the end of this factsheet. If you are unsure why you need to have this scan, please speak to the doctor who referred you.

What is an MRI scan?

MRI is a type of scan that uses strong magnetic fields and radio waves to produce detailed images of the inside of the body. It is a painless and safe procedure. The results of an MRI scan can be used to help diagnose conditions, plan treatments, and assess how effective previous treatment has been.

You can eat and drink normally before your scan.

At the appointment

Please arrive 15 minutes before your appointment time.

Check in at our reception using the self-service monitors. We will be available to help if required. Alternatively, you can knock on the double doors to Cardiac MRI.

We will greet you, explain the procedure, and go through a safety questionnaire.

You will be asked to change into a hospital gown and put your belongings into a locker before your scan. You will need to remove all jewellery, piercings, drug patches, metallic denture plates and hearing aids.

We will measure your weight and height. We may need to place a cannula (a thin, plastic tube) into your arm, through which we will inject a contrast dye, if required. Contrast dye helps certain tissues and blood vessels show up more clearly on the images.

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During the scan

An MRI scanner is a short cylinder magnet that is open at both ends.

You will enter the scanner head-first, lying on your back on the motorised bed. We will try to make you as comfortable as possible, using pads and supports as required.

A light frame (called a coil) will be rested on top of your chest. The coil contains receivers that pick up the signals sent out by your body during the scan. It can help to create a better quality image.

We will also attach an ECG to your chest. We will use this to scan in time with your heartbeat.

You will need to lie very still during the scan to achieve the best-quality images. You will be given instructions to hold your breath for a few seconds at a time. You will be told when you can breathe normally again.

We will operate the MRI scanner using a computer in a separate room. You will be able to communicate with the radiographer between scans, via a built-in microphone system.

During the scan you may feel your body temperature increase and you may experience tingling in your hands and feet. These are normal sensations. Please tell us if you feel uncomfortable at any point. We will give you an emergency buzzer to hold during the scan.

At certain times during the scan, the scanner will make loud tapping noises. This is the electric current in the scanner coils being turned on and off. We will give you ear plugs to protect your hearing from the noise. The breathing instructions will be given through headphones.

If you are having a cardiac MRI, your scan will take approximately one hour.

If you are having a chest MRI, your scan will take approximately 30 to 40 minutes.

After your scan

If you had a cannula inserted, we will remove this after the scan.

Your results

The radiographer will review your images to check the quality of the scan images. Your doctor will discuss your results with you at your next follow-up appointment.

MRI safety information

Please read the information below carefully.

Implants and devices

Due to the powerful magnetic field created by the scanner, even when not in use, it may not be safe for some people with implants and devices to have an MRI scan. We will need to investigate the safety of these before your appointment.

You must contact us if:

- you have a cardiac pacemaker or defibrillator
- you have had a heart valve replacement
- you have ever had surgery on your head

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- you have ever had metal in your eyes from welding or metal-work accidents (an eye x-ray may be required before your scan)
- you have any metallic or electronic implants
- you have had any surgery within the past six weeks
- you have any auditory implants (such as cochlear implants)
- you have ever swallowed a capsule camera (pillcam)

If you do not let us know in advance, we may have to postpone your scan.

Pregnancy

Please call us when you receive your appointment letter if:

- you are pregnant
- you think you might be pregnant
- you are currently breastfeeding

Bringing someone with you for support

If you wish to have someone in the scanner room with you for support, they will need to complete a safety questionnaire and comply with safety regulations.

We do not have crèche facilities at the hospital. We would advise that you do not bring young children with you for this scan. If you do bring young children with you, you will need to arrange for someone you know to look after them while you are having the scan.

Further information

If you are arriving by car, please remember that our car parks can get very busy, so it's a good idea to allow plenty of time to park. You may wish to consider getting a lift or coming by public transport.

If you have a medical condition that means you need help getting to hospital, please contact your GP surgery so they can arrange transport for you.

Contact us

If you have any concerns or would like further information, you can contact us.

Cardiothoracic radiology appointment team

Telephone: **023 8120 4833** (8.30am to 4.30pm, Monday to Friday)
023 8120 4499 (8am to 6pm, Saturday and Sunday).

Email: CardioRadApts@uhs.nhs.uk

We may have appointments available at short notice. If you would like to be considered for a short notice appointment, please let us know.

Useful links

www.nhs.uk/conditions/mri-scan

For a translation of this document, or a version in another format such as easy read, large print, Braille or audio, please telephone **0800 484 0135** or email **patientsupporthub@uhs.nhs.uk**

For help preparing for your visit, arranging an interpreter or accessing the hospital, please visit **www.uhs.nhs.uk/additionalsupport**