



Information for
patients and
carers

**Magnetic Resonance Imaging (MRI)
Scan
Liver**

What is an MRI scan?

Magnetic Resonance Imaging (MRI) is the name given to a technique which takes very detailed pictures of the inside of your body. It uses a powerful magnetic field and radio waves, together with an advanced computer system to build up a series of images. The scanner is an open ended tube, surrounded by a large circular magnet.



Are there any risks with MRI?

It is very important to contact us before coming for your appointment if you have, or have had any of the following:

- A pacemaker
- A neuro-stimulator
- Cochlear implants
- Aneurysm clips
- A shunt in your head
- A penetrating eye injury with metal fragments
- An artificial heart valve
- Any surgery which involved placing metal implants or clips

Or if any of the following apply:

- You are pregnant or think you may be pregnant (MRI scanning is not advisable in early pregnancy unless there are special circumstances)
- You weigh over 200 kg (approx. 31 stone)
- You need an interpreter. Please tell us this when you receive your appointment so that we can arrange an official interpreter for you
- You have problems weight-bearing and need a hoist to transfer
- You are unable to keep still or lie flat
- You have had a previous allergic reaction to MRI contrast agent Gadolinium (dye)
- You are on a low sodium diet
- You have cardiovascular disease or are taking antiarrhythmic drugs or beta blockers
- You have congenital long QT syndrome
- You have not had a blood test in the last 3 months

If you fail to inform us, we may not be able to scan you on the day of your appointment.

Preston MRI appointments: 01772 523999 / 522014

Is there any preparation for the scan?

You can eat and drink as normal before the scan. It would be helpful if you could leave any valuables at home and remove any jewellery before arriving for your appointment.

What happens when I arrive at the department?

When you arrive at the MRI department you should go to the reception desk where you will be booked in and asked to have a seat in the waiting area. You may be asked to complete a safety questionnaire. A

Radiographer will then go through the questionnaire with you, explain the procedure and answer any questions that you may have. You will be asked to change into a hospital gown. You will also be asked to remove anything that may contain metal, such as jewellery, hair grips, wigs and body piercings before entering the scan room. You will be provided with a locker to put your clothing and belongings into whilst you have your scan.

Can you bring a relative or friend with you?

Anyone can accompany you to the hospital but they will not usually be allowed into the room when you have your MRI scan. Please note that we do not have childcare facilities so we ask that you do not to bring small children with you unless accompanied whilst you have your scan.

What will happen during my MRI scan?

During the scan you will lie on the scanning table with the area of your body being scanned in the centre of the tube.

Equipment known as a coil will be placed on your abdomen.

The purpose of the coil is to improve the quality of the MRI images.

Once you are comfortable and in the correct position, it is important that you remain very still during the scan, as any movement will affect the quality of the pictures.

You will be given a buzzer to press in case you need to contact the Radiographer during the scan.



The Radiographer will be able to see you through a window during the scan and will talk to you through an intercom in between the pictures. Throughout the scan you will hear repeated loud banging, buzzing and tapping noises which stop and start.

These noises are normal during a scan and we will provide you with earplugs and headphones to protect your ears from some of the noise. You will be asked to hold your breath for a short period of time for most of the pictures.

Is MRI safe?

The MRI scan poses no risk when appropriate safety guidelines are followed. All staff follow appropriate safety measures before, during and after the scan.

Will I need an injection?

You will need to have an injection of MRI contrast (dye) called Gadolinium to make the liver more visible. This is given through a cannula in your arm or back of your hand by a qualified member of staff.

Is MRI contrast safe?

As with all medication, a very small number of patients may be allergic to MRI contrast. Allergic reactions are rare and when they do occur, most of them are mild. Please inform the Radiographer if you have any allergies, any kidney problems or are breastfeeding.

It is known that small amounts of Gadolinium may remain in the brain or other tissues after an injection, although there is currently no evidence that these small amounts cause any harm.

What happens after the scan?

Normally, you are able to go home immediately following your scan; however you are advised to stay in the MR department for 30 minutes after an injection of contrast dye. There are no side effects from the scan itself.

When will I get the scan results?

The Radiographer will not be able to give you your results on the day of your scan as the MRI images will need to be interpreted carefully by a Radiologist. The results will be sent back to the person who referred you for the scan.

Contact details

If you have a query about the MRI scan or you have any other questions, worries or doubts, do not hesitate to contact us prior to your appointment on: 01772 523999

Sources of further information

www.lancsteachinghospitals.nhs.uk

www.nhs.uk

www.accessable.co.uk

www.patient.co.uk

Lancashire Teaching Hospitals NHS Foundation Trust is not responsible for the content of external internet sites.

All our patient information leaflets are available on our website for patients to access and download:

www.lancsteachinghospitals.nhs.uk/patient-information-leaflets

Lancashire Teaching Hospitals is a smoke-free site. Smoking is not permitted anywhere on any of our premises, either inside or outside the buildings. Our staff will ask you about your smoking status when you come to hospital and will offer you support and advice about stopping smoking this will include Nicotine Replacement Therapy to help manage your symptoms of withdrawal and the opportunity to speak to a nurse or advisor from the specialist Tobacco and Alcohol Care Team. 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.

Gujarati:

આ માહિતીને સમજવામાં સહાયતા જોઈતી હોય તો કૃપા કરીને પૂછો. આ માહિતી મોટા છપાણામાં અને અન્ય ભાષામાં ઉપલબ્ધ કરી શકાય છે.

Romanian:

Vă rugăm să întrebați dacă aveți nevoie de ajutor pentru înțelegerea acestor informații. Aceste informații pot fi puse la dispoziție în format mare și în alte limbi.”

Polish:

Poinformuj nas, jeśli potrzebna jest ci pomoc w zrozumieniu tych informacji. Informacje te można również udostępnić dużym drukiem oraz w innych językach

Punjabi:

ਜੇ ਤੁਸੀਂ ਇਹ ਜਾਣਕਾਰੀ ਸਮਝਣ ਵੱਲੋਂ ਮਦਦ ਲੈਣੀ ਚਾਹੋਗੇ ਤਾਂ ਕਰਿਪਾ ਕਰਕੇ ਇਸ ਬਾਰੇ ਪੁੱਛੋ। ਇਹ ਜਾਣਕਾਰੀ ਵੱਡੇ ਪ੍ਰਿੰਟ ਅਤੇ ਹੋਰਨਾਂ ਭਾਸ਼ਾਵਾਂ ਵੱਲੋਂ ਮੁਹੱਈਆ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।

Urdu:

دو سر ی زبانوں او ر بڑ ی اگر آپ کو ہی معلومات سمجھنے کے یئرل مدد ی ضرورت ہے تو ییچھیا جس ییہ ابی دست بو یسکت ہے براے مہر یبان یو ییچھدی۔ معلومات

Arabic:

مطبوعه بأ ح ر ف ك ب ي ر ة و ب ل غ ا ت إ ذ ا ك ن ت ت ر ي د م س ا ع د ة ف ي ف ه م ه ذ ه ل م ع ل و م ا ت يُ ر ج ي أن ت ظ ل ب أ خ ر ي ي م ك ن ت و ف ي ر ه ذ ه الم ع ل و م ا ت

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