

3T VOLUNTEER MRI SCREENING FORM



Please carefully check the following as some items can interfere with MR or be hazardous to your safety. Mark your answer with a circle and add any relevant information. Safety calculations made by the scanner require us to input your weight, height and sex assigned at birth. **Your answers will be kept strictly confidential.**

Volunteer name _____ Sex _____

Date of birth _____ Weight _____ kg Height _____ cm

MR scanners have inbuilt safety systems to prevent excessive heating during a scan, and different manufacturers have different ways of doing this. The systems we use rely on models that require a height, weight, and biological sex and therefore it's important we know this information.

I understand these questions are used to determine if it is safe to take part in the study and may be looked at by designated individuals from the University of Oxford. If I am not scanned these details will be destroyed. If I am scanned these details will be securely stored for up to 5 years and then destroyed.

Please initial if you agree

IF YOU HAVE ANY QUESTIONS THEN PLEASE ASK US BEFORE YOUR SCAN

The radiographers are very happy to answer any questions about your MR scan. If you have any concerns about safety, what happens during the scan, or anything else, please feel free to ask us!

Do you have a heart pacemaker or pacing wires?

YES

NO

Many older pacemakers are unsafe to be scanned (and even some of the newer ones). The magnetic field can permanently damage some of their components such as reed switches.

Sometimes when a person has had a pacemaker removed, it's not possible to remove the pacing wires. This can be for a variety of reasons but there is a risk that these wires can heat up during a MR scan. If you have had a pacemaker in the past, we will confirm that the pacing wires have been removed before your MR scan.

Have you had any heart surgery (e.g. coronary stent, heart valve replacement, PFO closure)?

YES

NO

These are all devices that can be implanted to make ensure that blood flows through the heart correctly. Most medical implants have had MR safety testing and the manufacturers provide information on how safely scan these implants.

Have you had any surgery to your head including eyes / ears / brain?

YES

NO

Some surgeries to the eyes, ears or brain can involve the use of implants e.g. lens replacements, aneurysm clips, shunts, scleral buckles, inner ear implants. The eyes, ears and brain are very sensitive structures so we need to know if any implants are present.

Have you had any surgery to your neck or spine?

YES

NO

Operations to the neck or spine can involve implants with complex shapes e.g. cages and pin & plate systems with multiple components. Many of the implants are ok to scan but we first need to check what is present and sometimes contact implant manufacturers for safety guidance.

Do you have any implanted devices (e.g. aneurysm clip, hydrocephalus shunt, nerve stimulator, cochlear implant, mesh)?

YES

NO

Some implants, such as the ones asked in this question, are especially important to know about. This can be because they are mechanical or electronic, are on sensitive structures, or vary in their location in the body.

Have you had any operations involving metallic pins / plates / screws / wires?

YES

NO

These are mostly orthopaedic implants use to fix broken bones. They can have unpredictable and complex shapes hence sometimes we need to do extra checks to see that it is safe to scan you.

Have you had any surgical procedures or endoscopy in the last 6 weeks? (Please write below)

YES

NO

The 6-week timeframe can be important for certain operations.

Sometimes with endoscopy, particularly when biopsies are taken, your doctor can use endoscopy clips. These clips will naturally fall off and leave the body, but this can take a few weeks. After 6 weeks we would not expect any clips to remain.

Generally, surgeries that don't involve certain implants are ok to scan withing 6-weeks. However, we also take into consideration whether you would be comfortable having an MR scan while you are recovering.

Have you **ever** had any other surgical procedures of any kind, however minor or as a child? (Please write below)

YES

NO

Most people don't know exactly what was done when they have an operation. It's not unusual for implants, such as surgical clips, to be used without you being aware of it. The radiographers are experts in which surgeries are safe, and which surgeries require more information to confirm safety.

Have you **ever** sustained any injuries involving metal to the eyes or other part of the body (e.g. from drilling, grinding or welding)?

YES

NO

It is very important let us know about any injuries involving metal, especially to the eyes, before you have an MR scan. Unlike implants, which are attached to structures and made of know materials, metal introduced from an injury could be attracted to the magnet. You may still be able to be scanned if you have had a metal injury, but we will carefully assess this first.

Have you ever had a serious accident or injury (e.g. road traffic or industrial accident, explosion, shooting or shrapnel injury?)

YES

NO

If you have had a serious accident or injury, you may not remember what hospital care you had after the injury. We want to make sure you don't have any metal in your body, this could either be from the injury itself or operations you had afterwards.

Have you ever had a fit or blackout, or do you suffer from epilepsy or diabetes?	YES	NO
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We ask this question to check if you'll be ok during your scan. If you have a history of the above, you can still be scanned but we will ask you about any previous incidents and how well controlled your epilepsy or diabetes is at the moment.

Do you have any of the following (if yes please circle):			
Body piercing, eye makeup, coloured contact lenses	Hearing aid, wearable medical device (e.g. drug pump, glucose monitor)	Dentures, dental braces, dental implant, dental bridge	Medicated skin patch (e.g. pain, HRT, nicotine, contraceptive)
Tattoos (including cosmetic)	Artificial limb, prosthesis, splint, brace or support	IUD (contraceptive coil) If yes please state type:	

Body piercing – Body piercing vary considerable in terms of their composition. Some metal items can be attracted to the strong magnetic field and conductive materials could heat up during the scan. We will ask you to remove any body piercings before you scan, alternatively any plastic materials are normally fine to leave in.

Eye makeup – Eye shadow and mascara must also be avoided, since some types contain materials that can interact with the magnetic field e.g. iron oxide is often used in mascara to give it a dark colour. If you wish to wear eye makeup to your scan, we can provide makeup removal wipes, but you are advised to bring your own makeup to reapply.

Coloured contact lenses – Coloured contact lenses, the type that change the colour of your eye, can contain metal which can show up on the scan. Normal contact lenses, that have a blue tint, are fine to wear during your scan.

Hearing aid, wearable medical device (e.g. drug pump, glucose monitor) – These items are particularly sensitive to the strong magnetic fields used for MR. If you have a drug pump or a glucose monitor it is important that we check with your doctor before removing them.

Dentures, dental braces, dental implant, dental bridge – While fillings are always ok for a MR scan, other dental materials can sometimes be attracted to the magnetic field. If we are concerned about a dental material, we may ask you to contact your dentist to find out what it is made of.

Medicated skin patch (e.g. pain, HRT, nicotine, contraceptive) – Medicated skin patches, with or without a foil backing, can heat during a MR scan and deliver a large dose of the drug they contain. If you have one of these we will check where it is on your body and may ask you to remove it. It's important to note that, for anything that's prescribed, we need to check with your doctor first.

Tattoos (including cosmetic) – On very, very, rare occasions tattoos can heat up during a MR scan. The mechanism for why this can happen is poorly understood though it seems that tattoos with metallic pigments are more likely to heat. You should let us know if you have tattoo, for most of our scans we will simply warn you to alert us if you feel any heating during your MR.

Artificial limb, prosthesis, splint, brace or support – All these items can contain metal which can be attracted to the magnetic field. We can check these items before your scan and would only ask you to remove them if there is a risk or attraction or heating.

IUD (contraceptive coil) – As of 2016 there were 17 types of IUD and IUS products in use in the UK. Almost all of them are safe to be scanned but we do need to know the type of IUD to check this.

Could you be pregnant?	N/A	YES	NO
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While there is no evidence to suggest that MRI is harmful during pregnancy, the Department of Health advises against scanning pregnant women on high field strength scanners (2.5 telsa and above). We do not test for pregnancy so if you think you may be pregnant you should not be scanned.

Are you wearing any clothing, including underwear, that contains metallic threads or has been silver impregnated (e.g. anti-microbial)?	YES	NO
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Fabrics that contain metallic threads or have been silver impregnated (often marketed as anti-microbial/bacterial or anti-odour/stink) can heat up during a MR scan. This question then usually only applies to underwear and these products are almost always labelled and they tend to be more expensive.

Do you understand that this is a research scan and is not useful for diagnosis?	YES	NO
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Unlike a clinical or diagnostic MR scan, our scans are only used for research and you won't receive a report or copy of the scan. Our scans are not routinely looked at by a doctor and are therefore not a substitute for a doctor's appointment. The study Participant Information Sheet has more information about what happens if an abnormality is detected.

Have you removed your jewellery, hairgrips, hearing aids, watch, spectacles, keys and coins?	YES	NO
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Due to the very strong magnetic fields our scanners have there is risk attraction for many objects that contain metal. These magnetic field can also 'wipe' the information contained on credit cards, ID badges and train or parking tickets. We have lockers for your personal possessions that have a plastic key you can keep with you.

Volunteer / Guardian signature _____ Date of study _____

Screened by _____ Signature _____ Consent sighted _____