

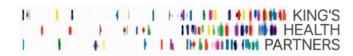
Magnetic Resonance Imaging (MRI) Access Control and Safety Procedures in the King's Clinical Research Facility

Document Detail			
Document type	Standard Operating Procedure		
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Approved by	Elka Giemza, CRF Manager		
Authorised by	Professor Peter Goadsby, CRF Director		
Related documents	CRF-HS-POL-1: King's CRF Health and Safety Code of Practice CRF-QA-SOP-6: Local Induction Procedure for King's CRF		
	Staff CRF-QA-SOP-1: Local Induction Procedure for King's CRF Users CRF-HS-FRM-1: CRF Ground Floor Fire Evacuation Plan		
Keywords	Magnetic Resonance Imaging (MRI), Access Control, safety, training, emergency, contingency		
Supporting references	"MRI Local Rules" –KCH, SLaM, , KCL (DH) Safety Guidelines for Magnetic Resonance Imaging Equipment in Clinical Use (<i>Medicines and Healthcare Products Regulatory Agency</i>), March 2015.		

Change History

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Date	Change details, since approval	Approved by
May	Updated related documents and references	E.Giemza
2016	2. Amendments to all sections to incorporate the current	
	MHRA safety guidelines and to reflect current Local	
	Rules	
	3. Additional Appendices for the classification of an MR	
	Authorised Person and for an example of a CRF MRI	
	Safety Screening Questionnaire and MRI Request Form	
May	Section 4.3: Updated contact for MR Safety Expert	E.Giemza
2018	2. Section 4.6: Updated location for the MR safety training	
	database	00
	3. Section 5.2: Amended to reflect that not all MR personnel	XV)
	are automatically granted access to the MR Controlled	
	Access Area	
A	4. Section 7.1: Amended date for the MRI Local Rules	F 0:
August	Update of NIHR logo	E.Giemza
2020	2. Supporting references: correction to text	
	3. Section 5.1: New text inserted	
	4. Section 5.0: numerical order changed as a result5. Section 5.2: Removal of text for clarification	
	6. Section 5.5: Addition of text for clarification	
	7. Section 5.8: Addition of text	
	8. Section 6.1: Addition of text for clarification	
	9. Section 6.2 : Addition of text for clarification	
	10. Section 6.4: Addition of text	
	11. Section 7.1: Update of information	
	1 1. Coddon 7.1. Opadio of information	1

	Review History		
Date	Review details	Approved by	
May 2016	Review of v1.0 conducted by Georgia Bullock, CRF QA Manager, and Karlene Fraser, Clinical MRI Physicist, as per the review date. Changes made as per 'Change History' and re-issued as v2.0.	E. Giemza	
May 2018	Review of v2.0 conducted by Georgia Bullock, CRF QA Manager, and Karlene Fraser, Clinical MRI Physicist, as per the review date. Changes made as per 'Change History' and re-issued as v3.0.	E. Giemza	
August 2020	Review of v3.0 conducted by Angelina Twumasi, CRF QA Manager, and Karlene Fraser, Clinical MRI Physicist, as per the review date. Changes made as per 'Change History' and re-issued as v4.0.	E.Giemza	

1.0 Background

1.1 Magnetic Resonance Imaging (MRI) and Magnetic Resonance Spectroscopy (MRS) are diagnostic and research techniques which do not use X-rays or other ionising

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radiation. In the majority of cases, Magnetic Resonance (MR) is considered to be without hazard to the patient. Nevertheless, there are number of potential hazards associated with MRI:

- a. Hazards with static magnetic fields (B₀)
- b. Hazards with time-varying magnetic field gradients (dB/dt).
- c. Hazards with pulsed radiofrequency fields (B₁)
- d. Acoustic noise
- e. Exposure to MRI during pregnancy
- f. Hazards with cryogens

1.2 The King's Clinical Research Facility (CRF) houses a 3.0T GE Discovery MR750 MRI Scanner on the Ground Floor, which is managed and maintained by the Department of Neuroimaging, King's College London (KCL). Studies being conducted within the CRF may require the use of the CRF MRI scanner, and the CRF is responsible for ensuring that robust systems are in place to ensure that anyone wishing to enter the MRI area is appropriately trained, undergoes full safety screening to identify any contraindications which would prevent them entering the area, and has limited access to the MR Controlled Access Area as per the "Local Rules" instructions (see Reference 7.1).

2.0 Purpose

2.1 The purpose of this Standard Operating Procedure (SOP) is to define the safety procedures in place within the CRF to ensure that access to the MRI Controlled Access Area by core CRF staff, users of the CRF (eg: researchers, radiographers, clinicians, nurses and study subjects) and visitors is restricted, safety screening checks are conducted and documented, and all relevant staff attend MRI safety training in accordance with the "Local Rules" guidance.

3.0 Scope

3.1 The CRF consists of the Experimental Medicine Facility (EMF), Clinical Trials Facility (CTF) and the Cell Therapy Unit (CTU). CRF SOPs are applicable across both the

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EMF and CTF, the CTU will continue to maintain and control their SOPs to ensure

compliance with Good Manufacturing Practice (GMP).

3.2 All staff wishing to access the MR Controlled Access Area on the Ground Floor of the

EMF are bound to adhere to the procedures outlined in this SOP.

4.0 Responsibilities

4.1 The organisation responsible for ensuring that the MRI scanner in the CRF is

maintained and is operating safely is King's College London (Department of

Neuroimaging).

4.2 Each MR system or department has a named MR Responsible Person who has

overall responsibility for the safe working of the MR system or department, including

the updating of operational and safety policies, ensuring adequate training and the

maintenance of safety facilities. The current MR Responsible Person for the CRF MRI

is Superintendent Radiographer Mark Allin (mark.allin@kcl.ac.uk, Tel: 0203 228 3092

(see MRI Local Rules at Reference 7.1).

4.3 An MR Safety Expert is appointed to provide specialist advice on the scientific and

technical issues relating to MR safety and on relevant training requirements for staff.

The MR Safety Expert is usually a suitably qualified MR physicist or non-clinical safety

officer. The current MR Safety Expert for the CRF MRI Scanner is Marco Borri

(marco.borri@nhs.net Tel: 0203 299 9000 x34898) (see MRI Local Rules at

Reference 7.1).

4.4 A nominated Consultant Anaesthetist is responsible for anaesthesia services in MRI

departments performing anaesthesia. The nominated Consultant Anaesthetist for the

CRF MRI Scanner is currently Dr Robin Kumar (robin.kumar@nhs.net, Tel: 0203 299

9000 x33154 (see MRI Local Rules at Reference 7.1).

4.5 The classification of an 'MR Authorised Person' falls into one of three categories: MR

Authorised Supervisor, MR Authorised Worker and MR Aware. These persons will

have at least received adequate training in MR safety (to the satisfaction of the MR

Responsible Person) such that they take responsibility for their own safety within the

MR Controlled Access Area. Further details of each category can be seen in Appendix

8.1.

4.6 MRI Safety Training is held monthly at the Centre for Neuroimaging Sciences (CNS)

and is part of the induction to the CRF. A list of all MR safety trained individuals is

available in the MR safety training database which can be accessed by the CRF

Quality Assurance Manager. Confirmation of attendance at an MRI Safety Training

session will be verified by the CRF staff member performing the CRF induction (see

CRF-QA-SOP-1: Local Induction Procedure for King's CRF Users and CRF-QA-SOP-

6: Local Induction Procedure for King's CRF Staff).

4.7 The CRF Manager is responsible for ensuring that robust access control procedures

are in place within the CRF for the MRI Controlled Access Area and that CRF staff

and users who wish to enter the area have been appropriately trained, safety screened

and are authorised to do so.

5.0 Control of Access and Safety Screening

5.1 For safety reasons it is absolutely vital to control the access of people and equipment

into the MRI department. Around the MRI scanner two regions are defined, these are

the MR Controlled Access and the MR Environment. The MR Controlled Access Area

is concerned with restricting access to the MR Environment which is included within it

5.2 The entire CRF MR Unit is defined as the MR Controlled Access Area and has

restricted access by self-locking doors. All entrances to the MR Controlled Access

Area must have prominently displayed warning signs. Appendix 8.2 shows the plan

of the CRF MRI Unit and the extent of the 0.5mT (5 gauss) fringe field line.

5.3 MR Authorised Persons can have free access to the MR Controlled Access Area.

However, all unauthorised persons (including unauthorised staff, patients, research

participants, comforters and carers, and visitors) must be appropriately screened by,

and seek authority from, an MR Authorised Supervisor before they can first enter the

MR Controlled Access Area.

5.4 Under no circumstances can an unauthorised person enter the MR Controlled Access

Area when not under the direct supervision of an MR Authorised Person. Any failure

to comply with the safety instructions of the supervising MR Authorised Person may

be referred to the appropriate employer as a disciplinary issue.

5.5 Within the CRF, the CRF Director, CRF Manager, CRF Quality Assurance (QA)

Manager and CRF Facilities Manager act as MR Authorised Supervisors (subject to

safety training), and as such may review and screen visitors. All other MRI safety

trained CRF staff will be classified as MR Aware and can obtain access to the MR

Controlled Access Area but are not permitted to grant access to visitors, (unless

officially approved and authorised otherwise by CRF Manager and the MR

Responsible Person).

5.6 All unauthorised persons must be at least verbally screened by an MR Authorised

Supervisor before entering the MR Controlled Access Area. Persons who fail the

screening procedure must NOT enter the MR Controlled Access Area. No

unauthorised person will be allowed access to the MR Environment without first

completing and signing a safety screening questionnaire to the satisfaction and

verification of the MR Authorised Supervisor, who will then countersign.

5.7 There are three types of MR Safety Screening Questionnaire (see Appendix 8.3 for

an example) stored at the CRF reception. The appropriate form will be issued by the

CRF reception staff to anyone who has not yet completed a screening form and

wishes to gain entry into the MR Controlled Access Area. Individuals who have

previously completed an MR Safety Screening Questionnaire at the Centre for

Neuroimaging Sciences are also required to complete a form at the CRF. These forms

are site-specific and must be completed in the CRF for ALL personnel, visitors and

study subjects who require access to this area.

5.8 The safety questionnaire for staff and collaborators is a blue form. This will usually

be completed at the time of MR safety training, but if not, it needs to be completed by

a staff member or collaborator the first time they attend the unit. It should then be

authorised by an MR Authorised Supervisor or CRF MR Authorised Supervisor and

filed in the 'MRI Access Forms' folder, located in the CRF reception.

5.9 The safety questionnaire used for visitors to the MRI unit is a yellow form which needs

to be completed by each visitor, authorised by an MR Authorised Supervisor and

returned to reception before the visitor (eg: a contractor) to the CRF can enter the MRI

unit. It should be held there until the visit has been completed and then

shredded/placed in the confidential waste bin. If a CRF MR Authorised Supervisor is

the reviewer of the form and sees a potential contraindication which might prevent that

visitor entering the MR Controlled Access Area, the form should instead be reviewed

and authorised by a CNS MR Authorised Supervisor.

5.10 The MRI Safety Screening Questionnaire for study participants is a double-

sided **orange** (or peach) form and is one of two forms that needs to be completed by

each participant every time they come for a scan. The front of this form, along with

the lower section on the reverse requesting GP details, must be completed before a

participant can be scanned. The upper section on the reverse, relating to the "MRI

Picture Library", has not yet been approved by the KCH R&I department, and should

not be completed until further notice. Reception staff should strike this section

through in ink before passing the form to a participant to complete. Once

completed, this form needs to be authorised by an MR Authorised Supervisor (usually

the radiographer on duty).

5.11 The second form required by study participants is a white MRI Request Form

(see Appendix 8.3) which needs to be completed by the study researcher along with

the participant, for each and every scan attended. This form will be used for the

clinical reporting of incidental findings by a Neuroradiologist, taking into account any

known background information or pre-existing medical conditions.

5.12 The research collaborator leading the study needs to be made aware that both

the orange and white forms will need to be given to a radiographer prior to the

participant entering the MR Controlled Access Area and will be kept to refer to during

the scan. Once the scan is complete, both forms will be taken to the Centre for

Neuroimaging Sciences (CNS) to be scanned and uploaded onto CRIS

(Computerised Radiological Information System), before being shredded/placed into

confidential waste. Currently Michelle Pearce (in the CNS Clinical Admin Office, Room

1.03) will undertake this duty and if necessary can be contacted on 0203 228 3073 or

at michellepearce@nhs.net.

6.0 Emergency Procedures & Contingency Plans

6.1 Cardiac Arrest:

In the event of cardiac arrest, any ongoing scan must be aborted immediately. The

subject should be removed from the MR Environment at the first opportunity. <u>Under</u>

no circumstances should MR Unsafe ferromagnetic resuscitation equipment be

brought into the MR Environment. Please note that the resuscitation trolley in the

corridor of the Ground Floor of the CRF and the Airway Trolley in room G11 are

MR Unsafe.

6.2 Major Equipment Failure:

In the event of a major equipment failure, resulting in serious malfunction or electric

shock to the patient, the electrical power to the system should be switched off. The

patient can then be safely evacuated from the MR Environment. Scanning must not

be resumed until a qualified MR service engineer has inspected the system and

certified it as safe to use. The MR Safety Expert and MR Responsible Person must

be informed of any major equipment failures, and the MR Responsible Person must

then inform the MHRA.

Please note: The magnetic field remains ON even after the electrical power has been

switched off (by pressing the EMERGENCY OFF button)

6.3 Fire:

KCH fire procedures should be followed as per CRF-HS-FRM-1: CRF Ground Floor

Fire Evacuation Plan. In addition, the following area-specific rules apply:

6.3.1 On discovering a fire in the MR Controlled Access Area:

6.3.1.1 Raise the alarm by operating the nearest fire alarm call point/shouting

"Fire" to warn others.

6.3.1.2 Abort all MR procedures.

- 6.3.1.3 If you consider it is safe to do so fight the fire using an MR Conditional fire extinguisher. Do not take any MR Unsafe fire extinguishers into the MR Environment.
- 6.3.1.4 If the fire is in the vicinity of the MR scanner or its associated equipment room and it is safe for you to do so, turn off the electrical power supply to the MRI system.
- 6.3.1.5 Evacuate the area according to the procedure outlined in the "CRF Ground Floor Evacuation Plan", ensuring that all doors along your escape route are closed.
- 6.3.1.6 The most senior person should ensure that all patients and staff are accounted for and the location of all patients is known.
- 6.3.1.7 The MR Safety Expert, MR Responsible Person or the most senior radiographer on duty is designated as the MR Fire Officer and must liaise with the Hospital Fire Officer and the Fire Brigade with regards to the safety of fire crews entering the MRI department.
- 6.3.1.8 If there is a serious fire which requires additional fire-fighting or breathing apparatus to be brought into the MR Controlled Access Area, the decision to deliberately quench the magnet will need to be taken (see Section 6.4.3).

6.3.2 Fire Alarms Sounding in MRI Area:

- 6.3.2.1 In the event of the alarm sounding continuously: make an immediate check of the whole area to confirm whether a fire has started. If there is a fire, follow the advice on discovering a fire above. If no fire is evident, await a response from the KCH Security Team and the Fire Response Team, advise patients and staff of the situation, remain at work and follow the Security Team's guidance.
- 6.3.2.2 In event of the alarm sounding intermittently: arrange for a member of staff to leave the area and go to adjacent areas, eg: the corridor outside or an adjacent ward, and determine the cause of the alarm. If no fire or emergency is evident in the adjacent area where the fire alarm is sounding, carry on MR procedures and inform occupants in your area. Reassure the patient. Await further guidance from CRF staff and KCH Security and the Fire Response Team. If the fire is on

the same floor level or adjacent to the MRI Area, complete the scan

but do not start any new procedures until further instructions have

been given by KCH Security and the Fire Response Team.

6.4 Magnet Quench:

In the case of a magnet quench, either deliberate or accidental, the liquid helium in

the magnet rapidly boils off as gas and should escape safely to the atmosphere via

the quench pipe. It is possible that some gas will escape into the MR Environment

and from there into the rest of the MR Controlled Access Area. This is potentially a

very dangerous situation because the helium gas is very cold and will cause cold

burns if it comes into contact with the skin. Also, helium depletes oxygen and can

lead to asphyxiation of anyone who remains in the MR Environment.

Recognising a Magnet Quench 6.4.1

A magnet quench may be identified by a loud bang coming from the top of the MRI

scanner as the emergency helium valve bursts open. If it is safe to do so, the exit of

the quench pipe can be checked for a white plume of escaping helium gas. If helium

is escaping into the scanner room in significant quantities it should trigger the audible

oxygen level alarm in the control room.

6.4.2 **Emergency Procedure**

In the event of a quench the MR Operator should:

Abort the scan

Activate the emergency ventilation

Evacuate the MR Controlled **Access** Area, informing others present to do so

as well

Shut the doors to the MR scan room and the MR Controlled Access Area

The MR department should remain evacuated until a suitably qualified person or a

representative of the scanner manufacturer authorised by the MR Responsible

Person has inspected the system.

6.4.3 **Deliberate Magnet Quench**

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The decision to initiate a quench should be made by the MR Responsible Person or the MR Safety Expert. In a life-threatening emergency, where none of these people

are available, the MR Operator will make the decision.

A deliberate quench may be initiated if there is:

A serious fire in the Controlled Access Area and the use of fire-fighting

equipment that is not MR safe must be used.

A life-threatening accident involving a ferromagnetic object.

For an incident involving a ferromagnetic object, but where there is no risk to life, it

should NOT be necessary to quench the magnet. In this instance, the system should

be verified safe by an appropriately qualified person (MR Safety Expert or MR

Engineer) before it is used again.

6.4.3.1 Fire in the MR Environment

It is especially important to ensure that all fire response personnel are

restricted from entering the MR Environment with their equipment until it can

be confirmed that the magnetic field has been successfully dissipated. There

may still be considerable static magnetic field present despite a quench or

partial quench of the magnet.

6.4.3.2 Life-Threatening Injury

If a person has been trapped by a ferromagnetic object or if they have an

impalement injury by a sharp object, the magnet should be quenched before

attempting to remove the person, to prevent further injury. It will be necessary

to support the weight of the object when the quench is initiated, again to

prevent further injury.

Further ferromagnetic objects should not be brought into the MR

Environment. Only MR Authorised Persons, and other appropriately screened

and supervised staff, should enter the MR Controlled Access Area.

All incidents must be reported according to local policy. Additionally, the MR

Responsible Person and the MR Safety Expert must be informed.

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6.5 All incidents must be reported according to the KCH Adverse Incident (AI) Reporting policy. Additionally, the Responsible Person and the MR Safety Expert must be informed.

7.0 Related documents and References

- 7.1 MRI Local Rules: For all Magnetic Resonance Imaging Departments performing Human Scanning at: King's College Hospital NHS Foundation Trust, South London and Maudsley NHS Foundation Trust, King's College London (Denmark Hill Campus). July 2020.
- 7.2 Safety Guidelines for Magnetic Resonance Imaging Equipment in Clinical Use.

 Medicines and Healthcare Products Regulatory Agency, March 2015.

 https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/47693

 1/MRI guidance 2015 4-02d1.pdf
- 7.3 CRF-HS-POL-1: King's CRF Health and Safety Code of Practice
- 7.4 CRF-QA-SOP-1: Local Induction Procedure for King's CRF Users
- 7.5 CRF-QA-SOP-6: Local Induction Procedure for King's CRF Staff
- 7.6 CRF-HS-FRM-1: CRF Ground Floor Fire Evacuation Plan

8.0 Appendices

8.1 Table Reformatted from MRI Local Rules

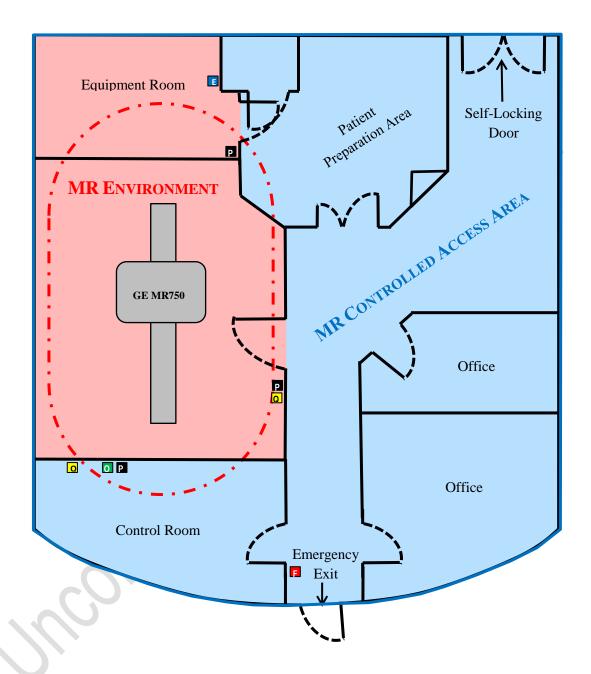
* Authorised Workers can scan research subjects without being supervised only if they have been formally signed off by the MR Responsible Person to be MR Unsupervised Authorised Workers. This status allows an MR Authorised Worker to scan research subjects without being supervised, but only if the subject has been a) consented and b) screened by an Authorised Supervisor for undergoing an MRI scan on an established occasion(s).

Local term	Authorised Supervisor	Authorised Worker	MR Aware	
MHRA term	Authorised Person (Supervisor)	Authorised Person (MR Environment)	Authorised Person (Non-MR Environment)	
Description	Have received recent training in MR Safety to an appropriate level such that they can take on additional responsibilities including the safety of other people within the MRCAA and MR Environment	Have received adequate training in MR safety such that they take responsibility for their own safety within the MRCAA and MR Environment	Have received adequate training in MR safety such that they take responsibility for their own safety within the MRCAA only	
Training requirements	Attended and completed Authorised Supervisor safety training. Read and understood this document, and have signed declaration agreeing to work according to these Local Rules.	Attended basic MR training/ watched MR safety video. Read and understood this document, and have signed declaration agreeing to work according to these Local Rules.	Provided with basic MR safety training, to enable safe presence in MRCAA and instil restriction to the MRE. Sign a limited declaration related to following 'simplified' rules?	
Free access to/within MRCAA?	Yes	Yes	Yes	
Responsibility for own safety within MRCAA?	Yes	Yes	Yes	
Responsibility for safety of others within MRCAA?	Yes	Yes	Yes	
Free access to/within MRE?	Yes	Yes	No	
Responsibility for own safety within MRE?	Yes	Yes	No	
Responsibility for safety of others within MRE?	Yes	No	No	
Own Screening	Yes - Annually, or after relevant change	Yes - Annually, or after relevant change	No	
Can screen Others	Yes	No	No	
Can scan Phantoms & Small Animals if at least:	MR Operator Technical	MR Operator Technical	No	
Can scan Healthy Volunteers if at least:	MR Operator Non- Clinical	MR Operator Non-Clinical	No	
Can scan Patients if:	MR Operator Clinical	No	No	
Duration of Classification:	4 years	3 years	2 years	
Classification awarded by:	Responsible Person	Responsible Person	Authorised Supervisor	

Typical example:	Radiographers, Physicists, some	Researchers, Radiology	Researchers, Office staff, some management,
	management	Department Assistants (RDAs) 1	radiologists, other clinicians

Table 1. Classifications & definitions for the MR Authorised Person (Subject to periodic review and updates)

8.2 Plan of the CRF MRI Unit



Approximate location of 0.5mT field line	Q	Quench Button	Е	Magnet Room Extractor Fan Manual Override
MR ENVIRONMENT	P	Emergency Electrical Power Button	ш	MR CONDITIONAL Fire Extinguisher
MR CONTROLLED ACCESS AREA	V	Oxygen Alarm		

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8.3 Example of an MR Safety Screening Questionnaire and Request Form

URNAMEHON			
DDRESS:			

1. Have you had any Scane or X-rays	s here before	? MRI / CT / X-rays / I	None
2. Do you have a pacemaker or artific	cial heart val	ve fitted?	Y/N
Any other heart or chest operation	s?		Y/N
3. Have you had any operations on y	vour head, ea	rs or spine?	Y/N
		ht have been inserted into your body?	Y/N
Have you had any other operation If 'Y' please give details			Y/N
6. Do you have any foreign metallic l	bodies in you	reyes?	Y/N
Have you done any welding or me	etalwork?		Y/N
Do you have any shrapnel in your	body?		Y/N
7. Do you have any of the following:			
Dentures, dental plates or bridges	s Y/N	False limb, calliper or brace	Y/N
Tattoos / metallic make-up	Y/N	Hearing aid or ear implant	Y/N
Body Piercings	Y/N		
8. Is there any chance you may be p	oregnant?		Y/N
9. When did you attend the MRI Sa	fety / Inductio	on session	
Please inform one of the radiog nformation becomes inaccurate.	raphers if	you later undergo surgery, or	the above
	raphers n	you later undergo surgery, or	mo abor

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				South London	and Maudiley	NHS
Centre for Neuroimaging Sciences MRI REQUEST FORM						
	PLEASE USE BLOCK CAPITALS TO COMPLETE THE FORM Please Circle					
Surname Forenames Mr/Mrs/Miss/Ms			Mr/Mrs/Miss/Ms		TRANSPO	ORT
					O.P.	
		PP	Walking			
NHS number				RESEARCH	Chair	
	Phone No					
GP details						
AREA OF MRI: HEAD/MRA/SPINE		Т		List (please circl	le)	
Indication:	(<u> </u>	naker?		Y/1	1
and the control of th		Vasco	lar Clips? in Eves?		Y/1 Y/1	V
		Is Sub	ject Pregnant? ject Claustrophobic?		Y/1 Y/1	N
Relevant Medical History /Additional I	nformation	Does	Subject have impaired Subject have Impaired	l Hearing?	Y/1 Y/1	V
		1				
		inform	rther advice on fore nation please contact			y
		asken	s@iop.kcLac.uk			
ICD Code (if known) IO	NADT	T =	School with no mulif	ications 🗆		
ICD Code (if known)IQ			School with no qualif	_		
	Age of onset of Current Symptoms Left School with qualifications					
	Age of onset of First Symptoms					
Family History of Psychiatric Illness Y NO DK						
Possible Dementia Y□ N□ DK□ MMSE score Past History of Head Trauma Requiring Hospitalisation Y□ N□ DK□						
Other disorder (please specify)						
Symptoms (current or most recent epis	ode)		I			
Hallucinations	Y□ N□	DK□	History of Alcohol	abuse Y□ N□	DK□	
Delusions	Y N	DK□	History of Drug Ab	use Y□ N□	DK□	
Thought disorder	Y□ N□	DK□	Autism spectrum:			
Thought broadcasting	Y N	DK□	K□ Social Y□ N□ DK□			
Withdrawal Y□ N□ D		DK□	N□ Repetitive Y□ N□ DK□			
Insertion	Y□ N□	DK□	Communicative	Y□ N□		
Symptoms Elevated Mood Y□ N□ DK□ Learning disability Y□ N□ DK□						
Negative mood Y N DK Inattentiveness Y N DK						
Anxiety/Panic Y N N			Overactivity	Y N D DK		
PTSD Y N D			Impulsiveness	YD NE		
Research Protocol Name	Contact Person		on Ethics Approval	Project Gran		Date
Clinical Hospital/Ward	Consultant	Con	itact Telephone Numbe	Directorate		Date
Print Name		Signat	ure			

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9.0 Approval and sign off

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