

# RISK ASSESSMENT RECORD FORM

Please refer to the accompanying guidance when completing this form

## Section 1: Administrative Details

Name of Assessor: Job Title: Date of Assessment:

## Section 2: Activity/Task

### Activity /Task

Provision of an MRI service

### Risk:

Projectile effect

### Area affected:

MRI

### Source of Risk (Background):

The intense magnetic fields present can strongly attract ferromagnetic objects brought close to the MRI scanner, causing them to become dangerous projectiles. Such projectiles can cause death or serious injury to patients, staff or other persons present in the scanner room. The region around the MRI scanner where this risk is significant is called the projectile zone.

### Supporting Evidence:

Published data on hazards in MRI. MHRA guidelines on safe use of MRI [1].

### Factors the risk contains: (if for COSHH include route of exposure, length of exposure time and exposure limits)

Magnetic fields.

### Potential Consequence if risk is realised:

- Death or serious injury.

## Section 3: Current Control Measures

Device which are likely to be brought into the MR Environment are labelled as MR Unsafe, MR Conditional or MR Safe, according to MHRA guidelines [1]. For MR Conditional devices, labelling includes a statement of the conditions under which the device may safely be used.

MR Unsafe objects may not be brought into the MR Environment. MR Conditional objects may only be brought into the MR Environment if they are used in accordance with their conditional labelling or a specific local risk assessment. Unlabelled objects are assumed to be MR Unsafe.

All patients and accompanying persons are taken through a comprehensive checklist to ensure that they do not bring any loose ferromagnetic objects into the MR Environment (as defined in the MHRA guidelines [1]). The projectile effect is covered in all MRI safety training provided to staff.

A ferromagnetic detection system is in place to aid in the detection of ferromagnetic objects which may otherwise be missed, but is a supplement to rather than a replacement for careful screening.

**Comment [SK1]:** There may be exceptions to this at some sites e.g. in interventional rooms where the MR Projectile Zone may be more appropriate here than the MR Environment.

**Comment [SK2]:** Site will need to delete this if such systems are not in place locally.

## Section 4: Risk Rating

Use the consequence, likelihood and risk score tables in the accompanying guidance to identify the scores below.

<b>Consequence Score:</b>
<b>Likelihood Score:</b>
<b>Risk Score:</b>
<b>Initial Risk Grading:</b>

<b>Section 5: Risk Reduction Options</b>		
<b>Options</b>	<b>Revised Risk Score</b>	<b>Cost</b>
No further reduction required		

<b>Section 6: Directorate/Divisional Agreed Actions</b>		
<b>Actions</b>	<b>Lead</b>	<b>Target Date</b>

<b>Section 7: Risk Grading</b>				
	<b>Consequence</b>	<b>Likelihood</b>	<b>Score</b>	<b>Grade</b>
Initial:				
Current (will be the same as initial to begin with):				
Residual:				

<b>Section 8: Review</b>
Risk Owner:
Planned Review Date:

<b>Reference</b>
[1] D. Grainger, "Safety Guidelines for Magnetic Resonance Imaging Equipment in Clinical Use," Medicines and Healthcare Products Regulatory Agency, Mar. 2015.