BAMRR

MR Safety week 2023

How safe is your department?

Day 2

CHECKLIST ©

The MRI system		Tick
System specification	The strength of the magnet in my department's scanner is: _____ the gradient specification of my scanner is: _____ _____ the bore diameter is:_____ the bore length is: _____ the weight limit is: _____	
The magnetic field	I know where the 5 gauss line and and projectile zones are I know where the fringe field plot diagram is displayed in my department	

Sequences		
Implant safety	I have an understanding of sequences in MRI that can reduce heating effects in implants	
Non compliant patient	I can adapt my sequences to reduce scan times when a patient is not managing, and understand how this affects image quality	
Image quality	I have knowledge of MR artefacts and what causes them	

Emergencies and Reducing Risk		
Emergency procedures	I am familiar with emergency procedure for quench I am familiar with emergency procedure for fire I am familiar with emergency procedure for resus I am familiar with emergency procedure for flood I am familiar with emergency procedure for power cut I know the location of the Phantom spill kit and the procedure for a Phantom spillage I have taken part in a resus scenario within the last year in MRI I have practiced emergency removal of a patient from MRI scanner within the last 3 months I know the location of the emergency Electrical switch off buttons	
MR Environment	At times when there are no MRI staff present in the Controlled Access Area the scan room door is locked	
Acoustic noise	I know the location of hearing protection, and understand how to use it I understand about the effects of acoustic noise in MRI	
Tissue heating	I understand about tissue heating and SAR/B1rms I know about RF burns: prevention and the local pathway for treatment of a suspected RF burn	
Implants	I understand the difference between active and non-active (passive) implants	
Tattoos piercings patches	I understand the risk as associated with piercings and tattoos I understand the risks associated with medicine patches, silver dressings, and diabetic monitoring devices	

Equipment inside Controlled Access Area

Fire extinguishers	I know the location of fire extinguishers in my department, and know whether they are labelled as MR Safe, MR Unsafe or MR Conditional	
Oxygen cylinders	I know the location of the oxygen cylinder(s) and whether they are MR Conditional or MR Unsafe	

MR Environmental Conditions

Helium level	I know how to check the helium level on the scanner and where to record it	
Air handling and humidity	I know where the panels are that display room temperature in the control room and the magnet room I know the range that these temperatures should be and how to report if they are out of range	
Oxygen monitor	I know the location of the oxygen sensor, and what action to take if it alarms	
Chiller unit temperature	I know where the chilled water temperature and flow rates are displayed and how to report a problem with the chiller	
Automatic extract fan	I know the location of the automatic extract fan and how to switch it to manual override	

Notes

My learning objectives	