

@society-of-radiographers





MRI SAFETY

PROTECTING PATIENTS AND PROFESSIONALS

M

MRI Department

The MRI team is a great source of specialist knowledge regarding safety queries - please get in touch.



Responsibility

The MRI referral must be completed fully and all necessary information provided to adhere to policies and guidelines.



Implants

Are they active or passive?

Provide a make & model

Where & when were they implanted?



BEST
PRACTICES
FOR
REFERRERS



Safety Questionnaire

Familiarise yourself with your department's questionnaire.

Check previous imaging.



Attachments

Monitoring Drips

Pumps Drains

Dressings Patches



Factors

Does your patient have: Any additional needs? An inability to cooperate? A body habitus > 120kg?



Extras

Renal Function (egfr)
Metal in eyes (IOFB)
Oxygen
Sedation / GA
Interpreter

Produced for MRI Safety Week

Promoting practices that keep patients and staff safe. MRI Safety Poster Competition: organised by the SoR Magnetic Resonance Advisory Group.



Lisa Cox

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WHY DO I NEED HEARING PROTECTION?



MRI SOUND LEVELS CAN REACH UP TO 130 DECIBELS, MAKING IT LOUDER THAN.....



changing currents and this produces vibrations/the noise!









MRI SAFETY WEEK

DANGER BEWARE!

REMEMBER TO DECLARE.



Cardiac devices including pacemakers & ICD's

Brain & eye surgeries, clips, coils, stimulators





Orthopaedic implants, stents, artificial limbs, any penetrating metal injuries & shrapnel

Medicinal & hormone patches, diabetic monitoring devices, silver backed dressings

THE MAGNET SALWAYS ON!

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PADDING SAFETY

FOAM PADS

Foam pads come in a variety of shapes and sizes, and are often used in MRI to maximise patient comfort, reduce movement and thus improve image quality.

They are also essential to use for patient **safety** and should be 1-2cm thick to ensure injuries are avoided.

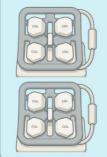


SKIN TO SKIN



RF energy can create electric currents in the body. If there is skin to skin contact this forms a loop which the electric currents can flow through. By using foam pads these loops can be broken.

COILS



RF coils can generate heat which can cause injuries if in direct contact with skin. By using the insulated foam pads provided by manufacturers, heating and burns to the patient can be avoided.

PREVENTS BURNS

Reducing patient heating in the MRI scanner is one of the most important safety precautions to take. Appropriate insulated padding is an effective way to prevent heating and burn related injuries to the patient.



PADDING POSITIVES

- Patient safety
- Patient comfort and support
- Reduce movement

RESULT

Optimal patient safety and experience achieved, whilst producing best possible image quality.

MOCK, B.J. (2021) POTENTIAL BURN HAZARD FROM GENERAL ELECTRIC MINE, ANESTHESIA PATIENT SAFETY FOUNDATION. AVAILABLE AT: HTTPS://WWW.APSF.ORG/ARTICLE/POTENTIAL-BURN-HAZARD-FROM-GENERAL

GRAINGER, D. (2021) SAFETY GUIDELINES FOR MAGNETIC RESONANCE IMAGING EQUIPMENT IN CLINICAL USE. AVAILABLE AT:

185. //ASSETS PUBLISHING SEPURCE GOVILA (2021 SAMENT / IPID LOADS / SYSTEM / JUNE / COADS / ATTACHMENT / DATA/FILE / SPSABRA / MRI GUIDANCE / 2021-4_03.0PD / (ACCESSED - 30 APRIL 2025)

185. //ASSETS PUBLISHING SEPURCE GOVILA (2021 SAMENT / IPID LOADS / SYSTEM / JUNE / DATACHMENT / DATA/FILE / SYSTEM / SY

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