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Accreditation

MRI Technologists

This course has been approved for one (1) ARRT Category A CE credit(s) by AHRA

Radiology Administrators

This course meets all CRA renewal credit criteria and has been approved for one (1) continuing education credit in the following CRA domain(s): Operations Management (OM).

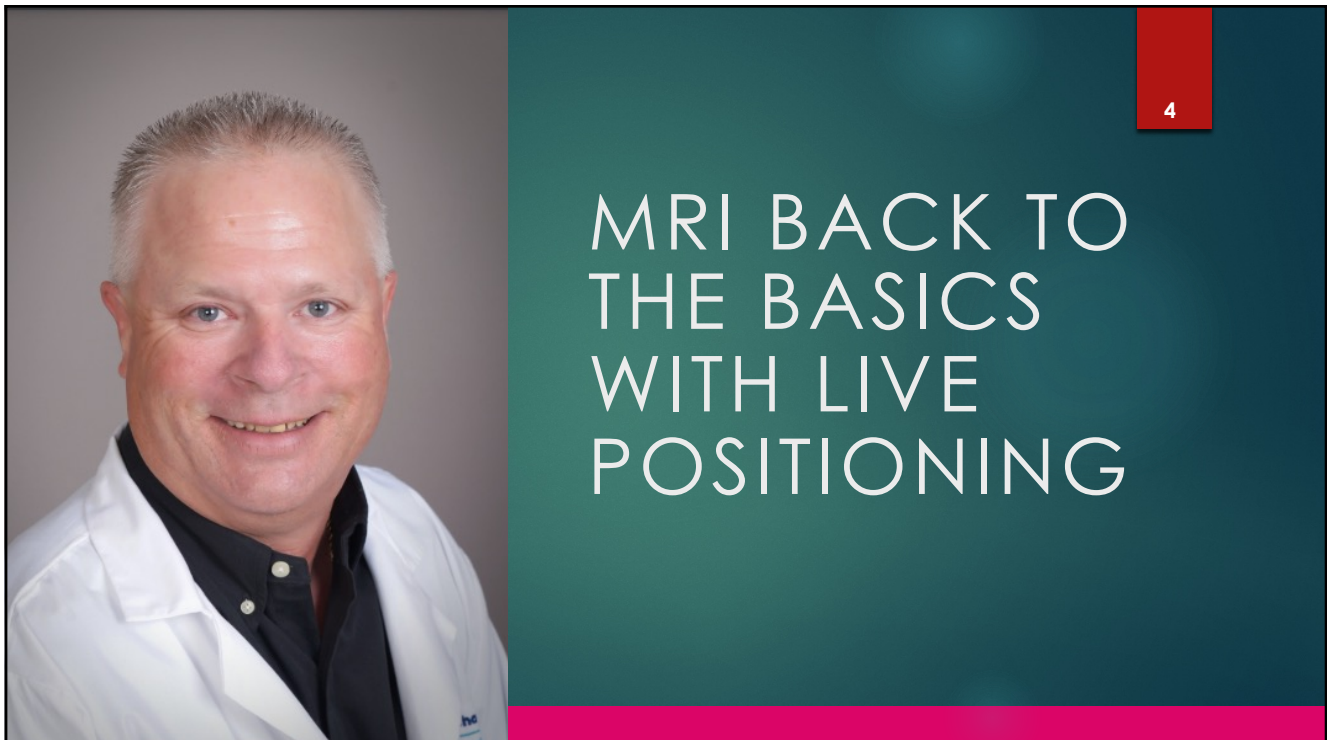
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Agenda

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- Safety & Clearance
- Communication
- P.P.E. (Personal Protective Equipment)
- Adaptability/Complacency
- Time Out Procedure/Safety Protocols/SAR
- Professional Growth & Continuous Learning
- Risk Mitigation/ Workflow Optimization/ Patient Positioning

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Disclosures/DISCLAIMERS

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- ▶ The following information reflects my views, opinions, and experience.
- ▶ This presentation content was prepared by Doug Boyd.
- ▶ All information in this presentation is for illustration only and is not intended to be relied upon by the reader for instruction as to the practice of medicine. Any healthcare practitioner reading this information is reminded that they must use their learning, training, and expertise in dealing with their individual patients. This material does not substitute for that duty and is not intended to be used for any purpose in that regard.

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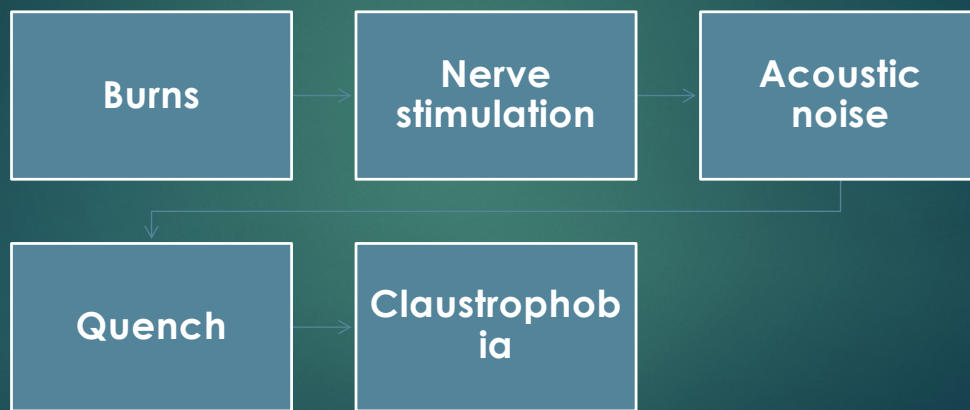
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Safety cont.

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Burns

MRI Burns – Understanding the Risk What are MRI Burns?

- Thermal injuries caused by radiofrequency (RF) energy heating conductive materials.
- Most common adverse event in MRI.
- Usually occur at the skin surface due to electrical current induction in loops or contact with conductive materials.

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Burns

Common Causes of MRI Burns

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- **Skin-to-skin contact** (e.g., thighs, arms folded over chest)
- **Looped ECG leads or wires** touching the patient
- **Conductive clothing** (metallic fibers, silver-threaded athletic wear)
- **Patient contact with bore wall** or RF coil cables
- **Transdermal patches** with metallic backing
- **Improper padding or positioning**

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Burns

Tech Responsibilities

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Before the Scan

- **Thorough patient screening**
- **Inspect cables**
- **Remove metallic objects**
- **Use non-metallic blankets or padding**
- **Position patient carefully**

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Burns

Key Prevention Tips

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- ✓ Educate patients about risk and comfort
- ✓ Use MR-safe padding between contact points
- ✓ Never let cables or leads form a loop
- ✓ Don't tuck cables under the patient
- ✓ Keep patient centered in the bore
- ✓ Be cautious with larger patients or extremities touching the bore

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Nerve stimulation

MRI-Induced Nerve Stimulation

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What Is It?

- A **physiological effect** caused by rapidly switching **gradient magnetic fields** during MRI.
- These fields can induce **electric currents** in body tissues, leading to **involuntary muscle twitching**, tingling, or a tapping sensation.

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Nerve stimulation

How It Happens

- Caused by **time-varying gradients**, especially your **faster sequences**
- The induced currents **stimulate peripheral nerves**, particularly near the **chest wall, limbs, or spine**.
- Sensations may range from **mild tingling** to **discomfort**, rarely painful but can be startling for patients.

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Nerve stimulation

Reducing Risk of Nerve Stimulation

- ✓ **Patient communication** – Inform patients that twitching or tapping sensations can occur and are usually harmless.
- ✓ **Sequence parameters** – Adjust gradient rise time or amplitude for sensitive patients.
- ✓ **Body positioning** – Avoid tight or contorted positions that could increase sensation.
- ✓ **Monitor reactions** – If a patient feels discomfort or pain, **stop the scan immediately** and assess.
- ✓ **Use earplugs/headphones** – While not for stimulation, loud gradient switching can confuse patients into thinking something is wrong

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Key Takeaways

Nerve stimulation

- Nerve stimulation is **not a burn** – it's a **transient nerve response** to gradient switching.
- It's **more common at higher field strengths** (3T and up).
- **Always log and report** if patients complains of painful twitching or unusual sensations.

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Acoustic Noise in MRI

Acoustic noise

What Causes It?

- MRI noise is produced by the **rapid switching of gradient coils** during scanning.
- The changing magnetic fields cause **vibrations in the gradient coil**, which are transmitted as **loud knocking, buzzing, or banging sounds**.

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Acoustic noise

How Loud Is It?

- Noise levels can reach **110–120 dB** — equivalent to a **rock concert** or **chainsaw**.

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Acoustic noise

Risks of Acoustic Noise

- ⚠ **Temporary or permanent hearing loss** if unprotected
- ⚠ Increased patient **anxiety or discomfort**
- ⚠ Communication challenges during scan
- ⚠ Can trigger **startle reflex** or claustrophobia

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Acoustic noise

Noise Protection – Tech Responsibilities

- ✓ **Always provide hearing protection** – foam earplugs, MR-safe headphones, I recommend both
- ✓ **Explain** to patients what the noise is and that it's normal
- ✓ Log/document use of hearing protection per facility protocol

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Acoustic noise

Key Reminders

- **Never scan without verifying hearing protection**
- Use **both passive (earplugs)** and **active (headphones/music)** when possible
- **Warn patients** about what to expect so they're not startled
- Monitor for signs of distress, especially in longer sequences

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Quench

MRI Quench – What Is It?

Definition:

A **quench** is the **sudden loss of superconductivity** in the MRI magnet, causing the **liquid helium** to rapidly boil off and vent out of the system as gas.

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Quench

What Happens During a Quench?

- The magnet's superconducting state fails → **cryogenics heat up**
- Liquid helium → helium gas (expands ~700x)
- Helium is released through a **quench pipe** to an outside vent
- The **magnetic field collapses** (either partially or fully)
- If the quench pipe fails → **helium can enter the scan room**, displacing oxygen

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Quench

Types of Quench Events

- **Planned quench** – Performed by service engineers to safely shut down the magnet
- **Unplanned/spontaneous quench** – Emergency situation, rare but dangerous
- **Emergency quench** – Activated by pressing the **Quench Button** in life-threatening scenarios

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Quench

Hazards of a Quench

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- ⚠ **Asphyxiation risk** if helium enters scan room
- ⚠ **Frostbite or cold burns** from rapid venting
- ⚠ **Damage to equipment**
- ⚠ Long **downtime and expensive recovery** (\$\$\$)
- ⚠ Panic or injury if personnel don't respond properly

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Tech Response to a Quench

Quench

- ✓ **Evacuate immediately** if you see fog, hear venting, or get oxygen alarms
- ✓ **Alert engineering/physics team** and safety officer
- ✓ **Do NOT re-enter** until cleared
- ✓ **File incident report** and document everything

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Quench Prevention & Awareness

Quench

- Never touch or block the **quench pipe**
- Make sure room is properly ventilated and alarm systems are active
- Educate new staff/students on **emergency response protocols**
- Only press the **Quench Button in emergencies** (e.g., fire or trapped person with ferrous object)

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Claustrophobia in MRI

Claustrophobia

What Is It?

- A **fear of enclosed spaces** that can cause **anxiety, panic, or refusal to complete the exam.**
- Affects up to **20% of MRI patients** — more common with **closed-bore scanners** (especially 60 cm or smaller).

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Signs of Claustrophobia

Claustrophobia

- ⚠ Patient appears tense, restless, or tearful
- ⚠ Refuses to enter scanner or stops mid-scan
- ⚠ Reports trouble breathing or heart racing
- ⚠ Requests sedation or "just wants out"

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Claustrophobia

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Preventing Claustrophobia – Before the Scan

- ✓ **Educate the patient** – explain the scan, noises, timing, and what they'll feel
- ✓ Offer to **play music or communicate through the intercom**
- ✓ Provide **mirror glasses** or prism goggles
- ✓ **Position feet-first** when possible
- ✓ Use an **open MRI or wide-bore scanner** if available

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Claustrophobia

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During the Scan – Comfort Strategies

- ✓ Keep **verbal contact** throughout
- ✓ Give every patient the **communication ball**
- ✓ **Cover eyes** with washcloth or eye mask
- ✓ Use **cozy padding and blankets** to create a feeling of security
- ✓ Break the scan into **shorter segments** if possible

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Claustrophobia

When Claustrophobia Persists

- Consider **pre-medication** (ordered by referring provider)
- Reschedule with **sedation protocol** if needed
- Always **document the issue** and notify the referring physician if scan incomplete

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Claustrophobia

Tech Tips for Claustrophobic Patients

- 💬 Speak calmly and confidently
- 🧑 Let them see the room before scanning
- 🕒 Give realistic time estimates
- 🎧 Use MR-safe headphones with patient's favorite music
- 📝 Always **log patient response** for future imaging visits

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Clearance

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Types of Clearance

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DEVICES

- If an implant is marked "yes" confirm patient is on correct scanner
- Confirm the strength of magnet
- Confirm the SAR setting
- Confirm if prior and or post x-rays are needed
- Confirm implant is compatible with coil selected
- Specialist clearance, example cardiac devices, stimulators

VERBAL

- Go over the screening form to its entirety: each question making they are marked and not all of them marked with one line (always perform the two-clearance method)
- Screen again before entering room, ask for key questions that may prompt a reminder such as; surgeries to eyes, ears or heart, shrapnel, medication patches
- Example: "Do you have anything in your body that you were not born with?"

VISUAL

- Change every patient out into an MRI safe gown and booties.
- Removal of all prosthetics, medication patches, hearing aids, jewelry, walkers, wheelchairs, canes etc.
- Look for scars, question your patient if stated no surgeries
- Example: scars around the chest or head

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COMMUNICATION

Per the American College of Radiology (ACR) guidelines, we need to verbally and visually be able to always see patients.

Clearly communicating to patients what is expected of them during the exam. This is very important especially if patient is claustrophobic.

Patients understanding expectations, such as holding still during an exam, creates diagnostic imaging.


The way to get started is to quit talking and begin doing.
Walt Disney

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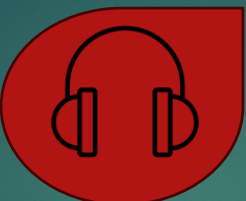
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Types of COMMUNICATION




Consent

Inform your patient of coil set up. Test and give your patient the call ball. Explain the power injector, if you are giving GAD/Contrast and total exam time that your patient will be in scanner.



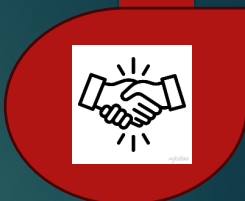
Confirm

Confirm patient that they understand the MRI procedure before placing ear protection and sending them into machine/bore.



Coaching

Talk to the patient, let them know what to expect, inform how long the next scan is going to be, make sure they are doing ok



Encouragement

Positive words, like "great job" "we are halfway done" "just a few more images" makes patients not feel alone and gives them a time reference. This helps with claustrophobic patients.

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MRI is about being creative, no two patients are the same.

Often, we need to be creative to be able to achieve diagnostic imaging while also providing our patients with comfort and empathy. (Think outside the box/voxel)

That being said not everything is cut and dried there is more than one way and being able to adapt will help provide diagnostic imaging in a timely manner.

ADAPTABILITY

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Types of Adaptability

CREATIVITY

Be creative and adjust by working with your patient's (THINK OUTSIDE THE BOX/VOXEL) you may need to use the body array coil with the posterior head coil to do a brain.

POSITIONING

Adjusting with pads, pillows, sandbags to work with patient's physical needs.

FLEXIBILITY

Make sure to adjust to new positioning and scanning ideas. Sometimes the new way is more beneficial and in favor of the patient's comfort.

LEARNING

Having an open mind and willingness to learn, MRI is always changing, be adaptable.

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Extremely important to always be on your A game, never make assumptions, This brings us back to Safety. We need to be diligent to avoid mistakes. In my opinion, this is why we continuously have accidents in the MRI industry.

It is your responsibility to give the patient accurate care and not to be "neglectful" in your duties.

Treat MRI as if it is a Medical Procedure, ie: Colonoscopy etc.

COMPLACENCY

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Back to the Basics

Screening

- Even if a patient is a frequent flyer, they still need to be re-screened and given a new form for every appointment.
- This includes colleagues who are scheduled for exams.
- Everyone entering the room need to be screened, no exception.

Safety

- Implant Safety, always refer to the MR Radiologist/MRMD for questions or concerns.
- Confirm all MR equipment is safe, example new batch of MR safe oxygen tanks arrived, do not assume, confirm they are MRI safe with magnet.
- Always check the labels and expiration dates on any items being administered to your patient's.

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Back to the Basics

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Double Check

- When working with another tech always do a second clearance before entering Zone IV. If you are by yourself always do a second clearance as well and document.
- Confirm dosage to patient's weight before administering GAD/Contrast.
- Check the power injector and make sure it is running without any issues. Run saline through the lines and make sure all the bubbles are gone, and you are good to go.

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Complacency & Risk Mitigation

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Avoid assumptions: 'They've done this before' it is safe

Distractions, shortcuts, and fatigue increase risk

Encourage double-checks, team clearances, speaking up

Create a culture of proactive safety awareness

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Complacency The Silent Risk

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- ▶ Routine can cause missed screening or skipped steps
- ▶ Overconfidence and shortcuts are leading causes of incidents



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Personal Protective Equipment (PPE) & Infection Control

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Use PPE with high-risk patients (MRSA, TB, bodily fluids)

Gloves, masks, gowns; disinfect coils and equipment

Protect both the patient and you as the MRI Technologist

Always clean between patients and deep clean if needed

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Types of Personal Protective Equipment

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ATTIRE

- ▶ Designated work shoes.
- ▶ Washing scrubs separately to avoid contaminating other clothing.
- ▶ Changing before leaving your site, or when first getting home.

MASK & GLOVES

- ▶ Contagions
- ▶ Results pending, TB, MRSA etc.
- ▶ Hygiene
- ▶ Bed bugs/ Lice
- ▶ Bodily Fluids
- ▶ Always remove gloves when exiting zone IV!

DISINFECT

- ▶ Control Room
- ▶ Chair and arm rests
- ▶ Desk supplies
- ▶ Phone keys and Earpiece
- ▶ MRI Machine-Deep clean if needed for patients with bed bugs/lice, bodily fluids.
- ▶ Mats and Pads
- ▶ Injector & Communication ball
- ▶ Headset

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TIME OUT PROCEDURE

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"TIME OUT PROCEDURE LIST PRIOR TO SCANNING YOUR PATIENT"

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REMEMBER TO PERFORM A TIMEOUT PROCEDURE FOR "EVERY" PATIENT!



DOUBLE SCREEN PATIENTS (ARRIVAL AND BEFORE ENTERING INTO ZONE IV).



CHANGE YOUR PATIENTS DOWN INCLUDING UNDERWEAR AND SOCKS.



NO LOOPS FROM THE COILS.



NO SKIN-TO-SKIN CONTACT. NO SKIN TOUCHING THE BORE.



USE CUSHIONS FOR COMFORT AND TO PROTECT THE PATIENT FROM BURNS.



USE HEADPHONES AND EAR PLUGS.



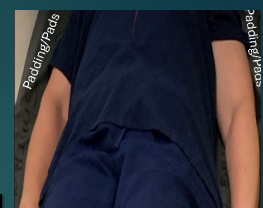
GIVE PATIENT THE COMMUNICATION BALL AND TEST BEFORE YOUR FIRST SEQUENCE.

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"TIME OUT PROCEDURE PRIOR TO SCANNING YOUR PATIENT"

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Set up:

ACR calls this final check or full stop. I like prefer "time out". Make sure to have all your tools prior to positioning your pt, including headphones, ear plugs, and check the communication ball before starting your first scan.


Make sure your pt. is comfortable by adding a cushion under there knees, no loops for the coils and most important to provide padding/pads to protect from burns.

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"THE DON'T'S OF MRI"

INCORRECT WAY DO NOT HAVE PT CROSS THEIR LEGS TO PREVENT KISSING BURNS



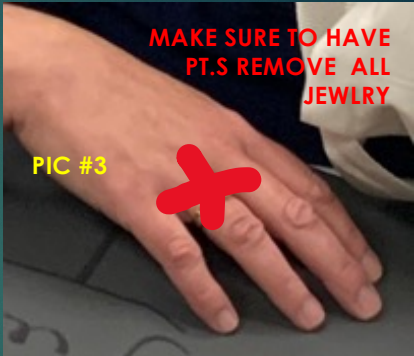
PIC #1

MAKE SURE TO HAVE PT.S TAKE SOCKS OFF



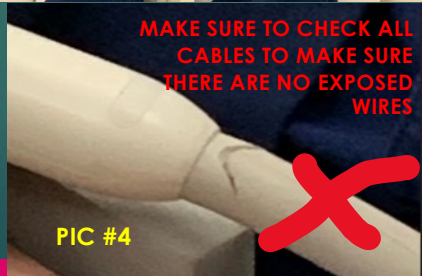
PIC #2

MAKE SURE TO HAVE PT.S REMOVE ALL JEWELRY



PIC #3

MAKE SURE TO CHECK ALL CABLES TO MAKE SURE THERE ARE NO EXPOSED WIRES




PIC #4

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"THE DO'S OF MRI"

CORRECT WAY DO NOT HAVE PT CROSS THEIR LEGS TO PREVENT KISSING BURNS




PIC #1

Padding/Pads



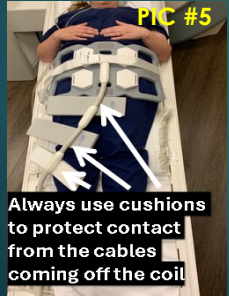
PIC #2

Make sure not have the pt. cross their arms




PIC #3

Always use cushions to protect contact from the cables coming off the coil



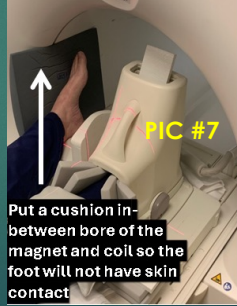
PIC #5

Coban and cushion to help keep the feet internally rotated



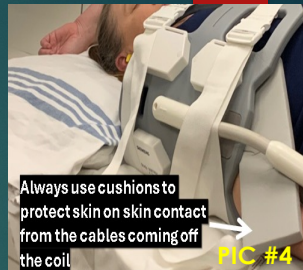
PIC #6

Put a cushion in-between bore of the magnet and coil so the foot will not have skin contact



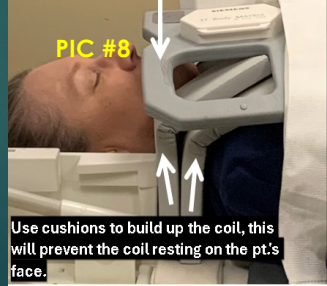
PIC #7

Always use cushions to protect skin on skin contact from the cables coming off the coil



PIC #4

Use cushions to build up the coil, this will prevent the coil resting on the pt's face.



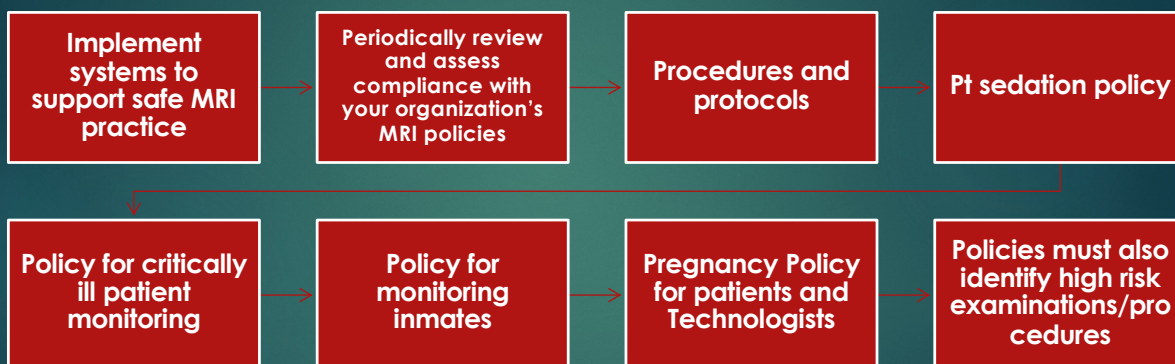
PIC #8

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MRI Safety Policy

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Examples of an Adverse Event Form

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DATE OF EVENT	ADVERSE EVENT	PATIENT TREATMENT/ OUTCOME	ACTION/FOLLOW UP	RECOMMENDATIONS	STATUS
September 16, 2008	Contrast Reaction: MultiHance (Gadobenate Dimeglumine Injection, 529 mg/ml) s/s sneezing, n/v, sob, weakness, edema: nose/throat/tongue/eyes and headache	-Notified MRI Radiologist -Benadryl 50 mg IV -Solumedrol 125 mg IV -Transported to ED via stretcher -Educated verbally and written (contrast allergy and discharge antihistamine medications) -Discharged home	-Reported to Drug Company, -Entered CPRS allergy posting	Continue to follow protocol	CLOSED
February 9, 2009	Contrast Reaction: MultiHance (Gadobenate Dimeglumine Injection, 529 mg/ml) s/s sneezing and weakness/dizziness, anxiety (mild reaction)	-Notified MRI Radiologist -NS 500 cc IV given -Observed for one hour in MRI holding area -Verbal and Written Education Provided to patient -Discharged Home	-Reported to Drug Company -Entered CPRS allergy posting	Continue to follow protocol	CLOSED

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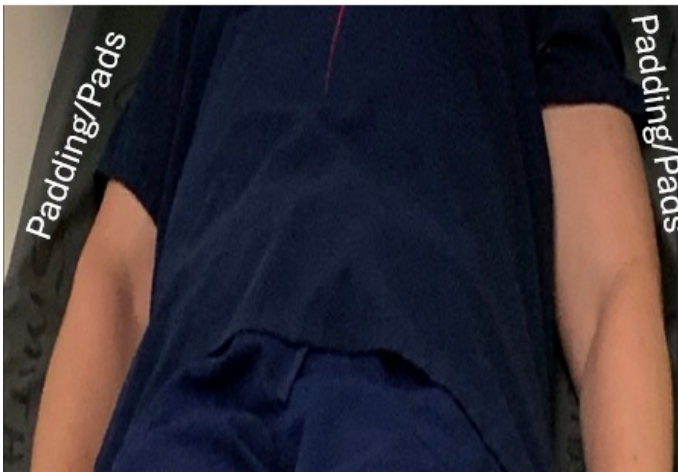
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RUN EMERGENCY DRILLS ROUTINELY

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SAR and Thermal Risks

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$$\text{Power In} - \text{Power Out} = \text{SAR}$$

Specific absorption rate (SAR) is a measure of the rate at which energy is absorbed by the human body when exposed to a radio frequency (RF) electromagnetic field.

SAR and Thermal Risks

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SAR and Thermal Risks

Do you really read this?

SIEMENS

SAR Monitor Operating Mode

Current measurement Normal

- ☐ Normal mode
☒ First Level mode

Switch Operations Mode ? ⊗



You are about to switch from Normal to FIRST LEVEL OPERATING MODE

Click on help to get important information on SAR!
 For more information see manual
 Click on continue to continue

G.E.

Select the desired Operating Mode:

dB/dT _____

Normal dB/dT

First Level dB/dT

Entering First Level for dB/dT.
 Operator/Physician confirms awareness of potential risk and accepts the responsibility.

FIRST LEVEL VS. SECOND LEVEL 2W/KG.

First level or fast should never be used or selected. Selecting first level or fast can and could cause burns in the MRI environment. All the manufacturers recommend and warn not to use or use with extreme caution. I have never used fast or first level in 30+ years as an MRI Tech. I felt there was never a need for selecting this option, and all the burns and incidents I have researched indicate that patients have been burned or heated up for no reason when the fast and first level was selected. In 30+ years, I have never burned or overheated a patient because Safety is my number one priority!

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- ▶ Define common risks and incidents in the MRI environment
- ▶ Recognize how complacency contributes to safety breakdowns
- ▶ Apply daily safety practices and protocols to prevent harm
- ▶ Understand the importance of documentation and double-checks



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Back to the Basics Summary

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Professional Growth & Continuous Learning

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- ▶ Understand the value of continuous professional development
- ▶ Identify certification and advanced credentialing opportunities
- ▶ Recognize career pathways in MRI beyond scanning
- ▶ Embrace mentorship, collaboration, and lifelong learning



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Why Growth Matters in MRI

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MRI is constantly evolving – stay ahead of the curve

Enhances patient safety, image quality, and job satisfaction

Increases value to your employer and healthcare team

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Continuing Education

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ARMRIT require on going CEUs

Topics: MRI safety, anatomy/pathology, protocols, technology

Resources: ARMRIT CMEs, conferences, online platforms

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Career Pathways

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Clinical Leadership or Preceptor roles

MRI Educator, Application Specialist,
Research Tech

Legal expert or consultant for MRI safety

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Reflection & Goal Setting

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What skill or certification do you want to
pursue this year?

Set one short-term and one long-term
professional goal

Find a CE course and share it with a peer

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What is Risk in MRI?

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- ▶ Risk = the potential for harm to patients, staff, or equipment
- ▶ Sources: implants, SAR, human error, distractions, fatigue
- ▶ Even low-frequency events can have serious outcomes

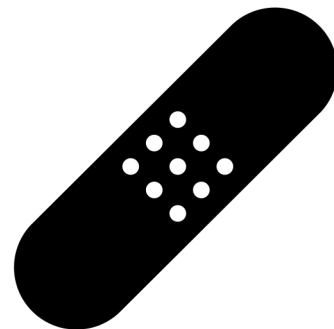


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Real-World MRI Incidents

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- ▶ Projectile injuries from metal objects
- ▶ Burns from coil loops, cables, or skin contact
- ▶ Implants not screened properly
- ▶ All preventable with consistent protocols



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Daily Practices for Mitigating Risk

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- ▶ Follow clearance protocols every time
- ▶ Use the time-out checklist before scanning
- ▶ Confirm all implants and remove all metal
- ▶ Communicate with your team — double-check each other



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Safety Culture & Documentation

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- ▶ Create a culture where speaking up is encouraged
- ▶ Document incidents and near misses to improve systems
- ▶ Learn from mistakes, yours and others'

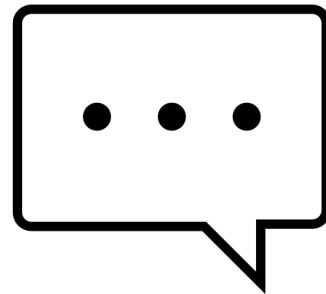


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Communication Strategies

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- ▶ Explain each step to the patient before positioning
- ▶ Use positive reinforcement: 'You're doing great!'
- ▶ Maintain calm, confident tone to reduce anxiety
- ▶ Encourage patient feedback: comfort, pain, concerns



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- ▶ Demonstrate effective patient positioning techniques
- ▶ Understand the impact of positioning on image quality and safety
- ▶ Apply workflow strategies to reduce delays and increase throughput
- ▶ Enhance communication for smoother exams and better patient experience

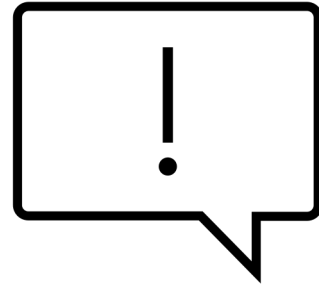


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Importance of Proper Positioning

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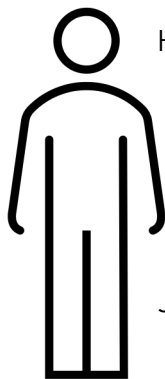
- ▶ Ensures diagnostic image quality
- ▶ Reduces need for repeats
- ▶ Minimizes patient discomfort and movement
- ▶ Helps avoid safety risks like RF burns



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Head-to-Toe Positioning Tips

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Head: secure with pads and headphones

Spine: knees elevated for comfort, arms by side

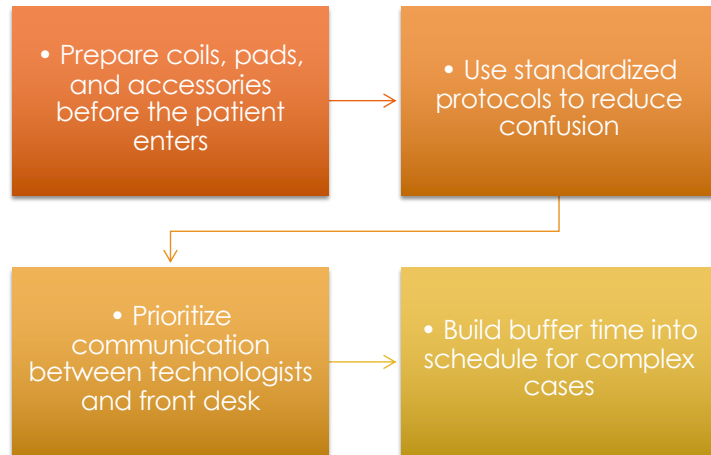
Abdomen/Pelvis: breath coaching, straps if needed

Joints: immobilize with cushions/sandbags

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Workflow Optimization

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Summary and Best Practices

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- ✓ Good positioning supports great imaging
- ✓ Prepare early, communicate clearly, and adapt when needed
- ✓ Workflow efficiency reduces patient wait and tech burnout
- ✓ Create a calm, professional scanning environment

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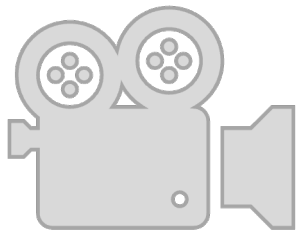
MRI Safety Websites

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WWW.MRISAFETY.COM

WWW.MAGRESOURCE.COM

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“LET’S
POSITION
OUTSIDE
THE
VOXEL”

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Thank you!

Questions?

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You must complete a brief evaluation of each session you attended to claim continuing education credit. To “unlock” each session’s individual evaluation, you will need the **access code (case sensitive)** provided below to open the session’s corresponding evaluation. Once that session’s evaluation is unlocked and completed, you can download a certificate of completion for that session.

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1. Go to ce.ahclearning.com/ARMRITcreditclaim25.
2. Select this session’s title from the list. On the page that appears, click the “Add to Cart” tab.
3. On the next page, enter the code for this session in the space provided and click “Unlock.”
The code for this session is awake.
4. Click “Take Course.”
5. Click “Start Course” or “Resume Course” to access the session evaluation.
6. Complete the evaluation and click “Submit.”
7. Download your certificate.

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