

University of Texas at Austin **Biomedical Imaging Center** Level 2 User Certification Written Exam

Date:	
Last Name:	
First Name:	
UT EID:	
E-mail address:_	
Advisor/Mentor:_	
Evam Proctor	

Successful completion of this written exam is partial fulfilment of the requirements to obtain Level 2 User certification in the Imaging Research Center. If every question is not answered correctly, you must complete a follow up form for each incorrect answer before your exam can be considered successfully completed. The follow up form will be provided when grading is completed. Good luck.

What phone number should you dial to request emergency medical assistance while conducting an MRI study in the IRC?

□ 9 (to get an outside line), then 911 □ 1-4441 (UTPD, on campus number)

□ 9 (to get an outside line), then 471-4441

911

□ 2-4203 (BIC Front Desk)

When is the MR magnet routinely shut off?

During cryogen fills, for safety □ Nightly, to conserve energy During system maintenance U When subjects are in the room □ Never

Why should the scanner room door remained closed during scans?

To prevent stray RF noise from causing artifacts

□ To prevent **anyone** from getting too close to the magnet during a scan

□ To prevent the **imaging** gradients from drawing ferromagnetic objects into the room □ All of these

□ None of these

What should you do when a subject squeezes the alert ball?

Obtain emergency medical assistance

□ Finish the current scan

Depress the quench button

Depress the EPO button

□ Stop the scan, and ask the subject how they are doing

If a subject suffers from a cardiac arrest during a scan (on the table), the emergency medical personnel that respond to your call for help should be instructed:

□ To remove the subject from the scanner and give care in the room, on the gurney

- □ To remove the subject from the scanner and give care outside the room, on the floor
- □ To not enter the magnet room
- □ To fill out a screening sheet before entering the control room
- □ None of these

An emergency quench button is located:

- □ On the control keyboard
- □ On the face of the magnet
- □ On the wall, on the right when you enter the magnet room
- □ On the wall, on the left when you enter the magnet room
- □ On the wall, on the left when you enter the MRI equipment room

You should depress the emergency quench button:

□ If a carpenter's hammer is stuck to the face of the magnet

- □ If a person is pinned against the magnet by a gas cylinder
- □ If there is a fire in the control room
- □ All of the above
- None of the above

You should depress the EPO button:

□ The subject squeezes the alert ball.

□ If you observe sparks on the front panel of the magnet

- □ If you need to stop a scan to correct the scan parameter, TR
- □ The second and third answers

□ All of these

Which of the following conditions **ALWAYS** precludes a subject from participation in an MRI brain study in the BIC at UT for safety reasons?

- Presence of a tattoo on their neck
- □ Surgical steel pins in knee
- Previous surgery
- Aneurysm clips
- Pacemaker
- Blindness

- Ear Rings
- Cochlear implant
- □ Orthodontic appliance (braces)
- □ Finger nail polish
- Deafness
- Contact lenses

Which people are required to fill out a subject screening form before participating as a scan subject in a fMRI study?

UT students
 UT faculty
 UT staff
 "civilian" volunteers
 None of these
 Which people are exempt from the requirement to fill out a subject screening form before participating as a scan subject in a fMRI study?

 The safety officer An MR technologist None of these The BIC Medical Director Graduate students in the PI's group/lab All of these 	An MR technologist	Graduate students in the Pl's group/lab
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This form must be completed for every question incorrectly answered on the Level 2 User Certification Written Exam in order for you to pass the exam.

Which question did you answer incorrectly?

Describe why you thought your answer was correct.

Explain what the correct answer is, and why it is most appropriate.