



MRI SAFETY

Magnet is always on. ALWAYS!!!

SAFETY ZONES

- **Zone 1:** reception area for general public
- **Zone 2:** screening area for patients and family
- **Zone 3:** controlled area outside scanner room door (only screened patients/family allowed)
- **Zone 4:** inside of scan room with magnet (only screened patients/family and MRI staff allowed)

TWO SAFETY ISSUES

Any ferromagnetic substance taken into the MRI scanner room will be subjected to:

- **Missile Effect:** launching of loose objects into bore of magnet
- **Torque Effect:** moving of object inside of a patient body due to magnetic field

MRI FIELD STRENGTH

- 0.5 Tesla – 3 Tesla

MRI SAFETY TECHNOLOGY

- **MRI Safe (green):** safe for all conditions inside any MRI scanner
- **MRI Conditional (yellow):** only safe under certain conditions, i.e. Tesla strength of magnet
- **MRI Unsafe (red):** not safe in MRI under any circumstances

HOW TO BE SAFE AS A RADIOLOGY STUDENT IN MRI

- You will be screened just as a patient would be before entering scanner room.
- Take all belongings out of pockets and take badges off before entering.
- As a student, you will not bring patients into scan room or open either scan room door unless supervised by MRI staff.
- If you have a question or concern, please ask.

