2.2-3.4.5 Magnetic Resonance Imaging (MRI) Facilities

2.2-3.4.5.1 Configuration of the MRI suite

(1) Suites for MRI equipment shall conform to the four-zone screening and access control protocols identified in the current edition of the American College of Radiology's "ACR Guidance Document on MR Safe Practices."

(2) MRI suites as well as spaces around, above, and below (as applicable) shall adhere to International Electrotechnical Commission (IEC) Standard 60601-2-33: *Medical electrical equipment* – Part 2-33: *Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis* requirements established to prevent unscreened individuals from entering the 5-gauss (0.5 millitesla) volume around the MRI equipment and to minimize electromagnetic or radiofrequency interference to, or from, other equipment.

(3) In addition to the clinical and support areas in this section, the following shall be provided in the MRI suite:

(a) Space for patient interviews and clinical screening

(b) Space for physical screening

(c) Ferromagnetic (only) detection and warning systems

(d) Access controls

(e) Space to accommodate site-specific clinical and operational requirements such as image-guided procedures, emergent imaging, or general anesthesia support

(f) Space for containment of non-MRI-safe objects outside restricted MRI safety zones

(g) Space for storage (patient lockers) of patient belongings and non-MRI-safe items

*(4) Any area in which the magnetic field strength is equal to or greater than 5 gauss (0.5 millitesla) shall be physically restricted by the use of key locks or pass-key locking systems.

A2.2-3.4.5.1 (4) A risk of injury or death is posed by the penetration of areas in which the magnetic field strength is equal to or greater than 5 gauss by unscreened persons or ferromagnetic objects or equipment.