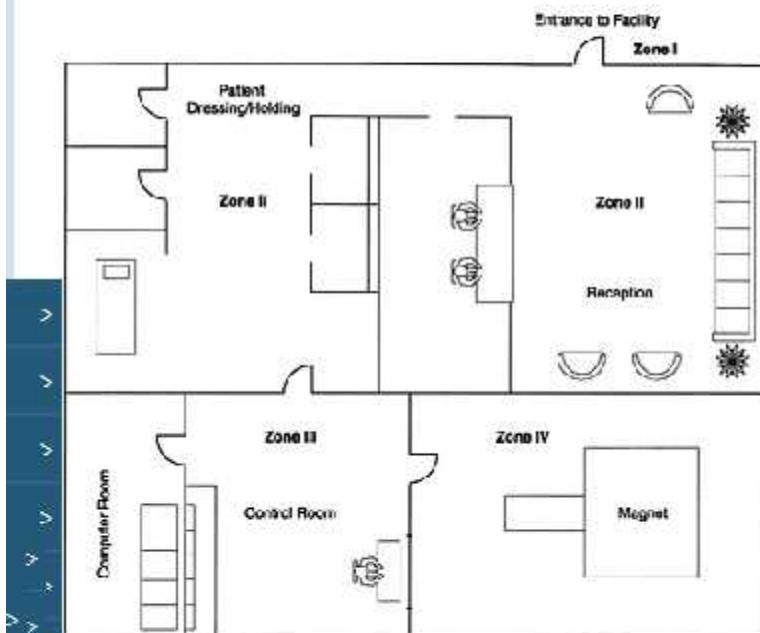


MRI Suite: ACR Safety Zones

Four areas (I – IV) in scanner environment with increasing magnetic field exposure

What are the ACR Safety Zones?



The American College of Radiology has defined four safety zones within MRI facilities. These are denoted Zones I through IV and correspond to levels of increasing magnetic field exposure (and hence potential safety concern).

Zone I

- All areas freely accessible to the general public without supervision. Magnetic fringe fields in this area are less than 6 Gauss (0.5 mT).

Zone II

- Still a public area, but the interface between unregulated Zone I and the strictly controlled Zones III and IV. MR safety screening typically occurs here under technologist supervision.

Zone III

- An area near the magnet room where the fringe, gradient, or RF magnetic fields are sufficiently strong to present a physical hazard to unscreened patients and personnel.

Zone IV

- Synonymous with the MR magnet room itself. Has the highest field (and greatest risk) and from which all ferromagnetic objects must be excluded.

[Advanced Discussion \(show/hide\)»](#)

Reference

Kanal E, Barkovich AJ, Bell C et al. ACR Guidance Document on MR Safe Practices. 2013. Magn Reson Imaging 2013;37:601–630.