



Syllabus for MRI Safety section of CCPM Membership Exam for the MRI sub-specialty:

Topics

1. Quenches
2. Projectiles
3. SAR
4. RF burns
5. Peripheral nerve stimulation
6. Gradient noise
7. Allowed exposure levels
8. MRI of pregnant patients
9. The patient screening form.

The candidate should understand the patient safety issues underlying all the items on a *current* patient screening form and also the safety issues underlying the safety guidelines/procedures described in the ACR white paper on MRI safety: combined papers 2002 and 2004 by E. Kanal (available from the ACR website).

References

Note: This list is not to be considered comprehensive

1. Shellock FG, *Reference Manual for Magnetic Resonance Safety, Implants, and Devices: 2013 Edition*. Biomedical Research Publishing Group, 2013.
2. Shellock FG, Spinazzi A. *MRI Safety Update: 2008, Part 1, MRI contrast agents and nephrogenic systemic fibrosis*. American Journal of Roentgenology. 191:1–11, 2008.
3. Shellock FG, Spinazzi A. *MRI Safety Update: 2008, Part 2, Screening patients for MRI*. American Journal of Roentgenology. 191:12–21, 2008.
4. Kanal E et al., *ACR Guidance Document for Safe MR Practices: 2007*. American Journal of Roentgenology. 188:1–27, 2007.
5. ICNIRP Statement: *Medical Magnetic Resonance (MR) Procedures: Protection of Patients*, Health Physics, 87:197–216, 2004
6. Health and Welfare Canada, *Safety Code 26: Guidelines on Exposure to Electromagnetic Fields from Magnetic Resonance Clinical Systems*