

# Emergency Radiology in Childhood: Syllabus (Bracco Education in Diagnostic Imaging, Syllabus 12)

MR Imaging • Review

## MRI Safety Update 2008: Part 2, Screening Patients for MRI

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**OBJECTIVE.** This article is the second part of a two-part series on MRI safety. In this article, part 2, the topic of screening patients for MRI procedures is addressed.

**CONCLUSION.** To prevent incidents and accidents associated with MRI, it is necessary to regularly revisit the safety topics that directly impact patient management especially with respect to the subjects that are "new," those that should be reassessed because of recent changes, topics that deserve emphasis because of controversy or confusion, and information that should be considered in light of new findings.

In consideration of the constant evolution of issues related to MRI safety and the need to update and revise existing guidelines and policies and procedures, there is an ongoing challenge to be aware of the latest developments associated with this topic. Notably, comprehensive reviews and textbooks have been written on the subject of MRI safety and there are Websites with content that is updated on a regular basis [1–15]. Therefore, the reader is referred to those important resources. The goal of this article is to provide an MRI safety update that covers selected topics including those that are "new" (e.g., MRI contrast agents and nephrogenic systemic fibrosis [NSF]), subjects that should be reassessed because of recent changes (e.g., screening patients and individuals), topics that deserve emphasis because of controversy or confusion (e.g., certain policies and procedures), and information that should be considered in light of new findings (e.g., MRI test results for implants and devices, including items evaluated at 3 T).

### Screening Patients for MRI Procedures and Individuals for the MRI Environment

The implementation of appropriate policies and procedures to screen a patient for an MRI examination or an individual before permitting entry into the MRI environment (i.e., the MR system room) is a vital aspect of a facility's MRI safety program that, when conducted properly, prevents problems,

accidents, and injuries. Therefore, although this topic has been covered in great detail [1, 2, 7–9, 11–17], it needs to be revisited because of the previously described concerns related to the use of MRI contrast agents and NSF as well as other matters that must be considered.

A health care worker specially trained in MRI safety must perform the MRI screening activities whether it involves a patient or another individual. This worker is someone who has undergone training and education to fully understand the potential hazards and issues associated with the MRI environment and MRI procedures and who is aware of the latest information on the screening forms for patients and individuals.

Screening requires the use of written forms [1, 2, 7–9, 11–17]. Two different screening forms, one for patients and one for other individuals, that provide questions to identify potential problems relative to an MRI procedure or the MRI environment have been developed [1, 12, 14, 17]. Screening forms with the latest information are shown in Figure 1, including screening forms for patients in English (Figs. 1A and 1B) and Spanish (Figs. 1C and 1D) and a screening form for nonpatient individuals (Fig. 1E). The form intended for patients includes questions to address NSF risks [12, 14]. All forms may be downloaded for use at [www.MRISafety.com](http://www.MRISafety.com). Typically, screening forms were created with patients in mind and, therefore, ask certain questions that are inappropriate for individuals who may simply need to enter and work in the MRI environment. Therefore, a

**Keywords:** electromagnetic fields, implants, MRI environment, MRI conditional, MRI safety, MRI unsafe, radiology department policies

DOI:10.2214/AJR.08.1038.2

Received April 2, 2008; accepted after revision May 10, 2008.

F. G. Shellock has received unrestricted educational and research support from Bayer Healthcare; Bracco Diagnostics; Siemens Medical Solutions; Philips Healthcare; GE Healthcare; Toshiba Medical Systems; Hitachi Medical Systems; C. R. Bard; Boston Scientific Corporation; Abbott Laboratories; Medtronic, Inc.; Johnson & Johnson; St. Jude Medical; Biomet; LumaSense; Advanced Neurostimulation Systems; Arrow International; Smith Medical; Stryker Instruments; Cordis; DePuy; Integra Neuroscience; Edwards Laboratories; Neumatic Medical; Resonance Technology; Codman; Cyberonics; Smith and Nephew; Inrad; AVE Code, Inc.; Stryker; Concor Medical; and Advanced Biomics. A. Spinazzi is an employee of Bracco Diagnostics, Inc.

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AJR 2008; 191:1140–1149

0891-893X/08/19140-1140

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AJR, 191, October 2008

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- Bracco Diagnostics, Inc.; Siemens Medical .. AM GI Radiology Continuing Medical Education (CME) 27 Assessment of Adherence to Imaging Recommendations Made in Emergency Abdominal Ultrasound. Additional information is available on page 12 of this syllabus. 20% discount off of the Kidtopia children's programs More information is available at [www.ukmartialartsfinder.com](http://www.ukmartialartsfinder.com) David L. Coy, MD, PhD - Medical Imaging & Technology Alliance Juergen K. Willmann, MD - Bracco Diagnostics, Inc. Free digital ebook downloads Emergency Radiology in Childhood: Syllabus ( Bracco Education in Diagnostic Imaging, Syllabus 12) DJVU More .Download epub free Emergency Radiology in Childhood: Syllabus (Bracco Education in Diagnostic Imaging, Syllabus 12) CHM Details. For integrated diagnostic solutions that are creating imaging, cardiac imaging, chest imaging, competencies, emergency radiology, accompanying syllabus are outstanding. on radiology education and business and practice management. .. ARRS does not provide children's programs or child care.

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