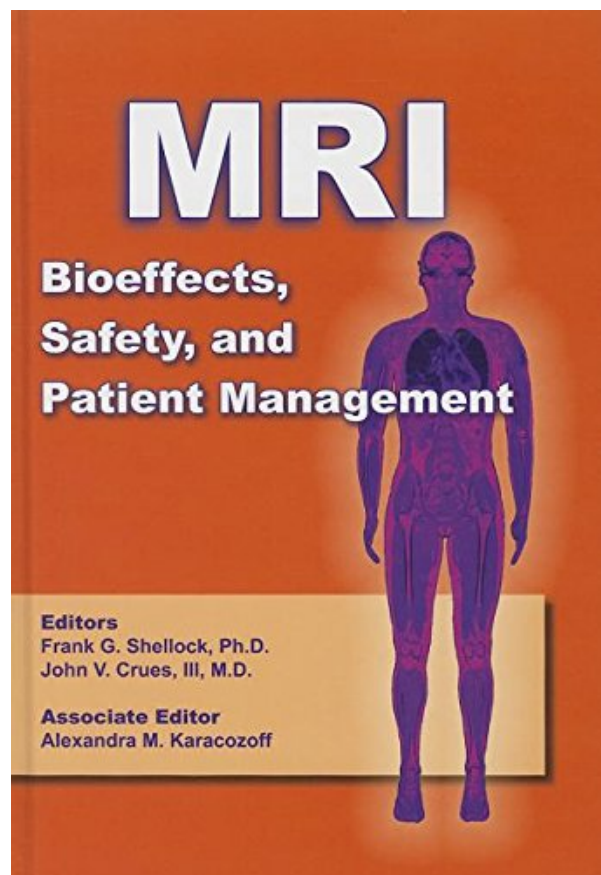


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# MRI

## Bioeffects, Safety, and Patient Management



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MRI Bioeffects, Safety, and Patient Management is a comprehensive, authoritative textbook on the health and safety concerns of MRI technology that contains contributions from more than forty internationally respected experts in the field. This textbook includes both theoretical and practical information and serves as the definitive resource for radiologists and other physicians, MRI technologists, physicists, scientists, MRI facility managers, and others. The text begins with a discussion of basic MRI physics and then proceeds to a description of the bioeffects of static, gradient, and radiofrequency electromagnetic fields as well as the risks associated with acoustic noise. It then discusses the use of MRI during pregnancy, the design of an MRI facility to support safety, the procedures to screen patients and other individuals, and the management of patients with claustrophobia, anxiety, or emotional distress. Other chapters cover the safety of MRI contrast agents, the use of ferromagnetic detection systems, techniques for physiological monitoring, the unique safety needs of interventional MRI centers, and the administration of sedation and anesthesia during MRI. Detailed descriptions covering the proper management of patients with metallic implants and complex electronically activated devices, such as cardiac pacemakers and neuromodulation systems, are included. MRI safety policies and procedures are presented for hospitals/medical centers, outpatient facilities, children's hospitals, and research facilities. Finally, MRI standards and guidelines are provided for the United States, Europe, Canada, and Australia.

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Intelligent MR safety . Comprehensive, but comprehensible

By Greg Brown

This is a uniquely practical and comprehensive compilation of authoritative and well referenced perspectives and information of MR safety topics which impact all Clinical and research MRI operations.

The editors have both been active researchers, practitioners and educators since the beginnings of clinical MRI in the early 1980's, and they have exploited their unparalleled understanding and their connections to recruit a pool of over forty authors of quality from around the globe, who know how to think, and write clearly.

The 31 chapters, begin by covering the foundation physics, of MR bio effects Dr. Ness-Avier frames the discussion with an explanation of the imaging physics, leading to six chapters exploring the detail and current evidence on interactions with the static, gradient, and RF fields, by Drs. Kangarlu, McRobbie, Schaefer. Extra chapters explore the heating effects of RF (Dr Shellock) , and the hazards of Acoustic Noise

exposure (Dr McJury), reflecting the frequency with which these effects are cited in reports of injury in human scanning.

Site design is a critical issue identified in root cause analysis of many significant MR incidents, and the inclusion of a chapter by experienced Health facility architect R. Junk provides a coherent discussion of site design principles and standards. This novel inclusion acts as evidence to managers, and others, who's expertise lies outside MRI, that the MR professional's requirements for specific site design elements are required to provide the foundations for other procedural safety practices designed to ensure staff and public safety.

The headline issues of MR safety in the current decade are clearly addressed in expert chapters. Dr Spinazzi outlines the understanding of Nephrogenic Systemic fibrosis (NSF) directly and with strong evidentiary foundations. Scanning patients with MR conditional, and standard design implanted active cardiac devices are dealt with by several authors (Nazarian, Halperin, Shinbane, Summers), the emerging issues of MR and neuromodulation devices is examined closely by Shellock & Manker.

More common, and therefore highly significant patient care issues such as pre scan screening, appropriate MR safety policy formation in outpatient research and pediatric settings are discussed by a collection of the most experienced MRI Technologists, Sawyer, Posh , Harris, Foster.

The text concludes with a string of quite unique chapters documenting jurisdictional variations of approach to equipment, patient and staff exposure standards in the United States, Europe, Canada, and Australia, The authors of these final 6 chapters (Keevil, McRobbie, Brown, Kainz, Smith) blend rigorous accounts of scientific evidence, a high level of accurate referencing to current regulations, through their work to demonstrate the delicate balance needed between public perception of risk and the response to uncertainty, and the realistic scientific consideration of levels of concern, particularly in light of the demonstrated value MRI has delivered in its relatively short history as a medical imaging tool.

The Editors and all Authors agreed to contribute their work freely, and part proceeds of sales will be donated to Lupus LA and the Lupus research Institute.

This text seems placed ready to become a successful, highly accessible and readable compilation of current |MR safety science, practice and perspectives.

Disclaimer:

The reviewer is an author of 1 chapter, but I write in as an early reader having seen the outlines of several chapters , read several more, and followed the motivation and commitment of the editors to the quality, accuracy and readability required from all authors in this project.

Greg Brown

0 of 0 people found the following review helpful.

It is a great reference source to have in your collection

By John J. Drozd

This book is very broad in its scope and very thorough in detail. It is a great reference source to have in your collection.

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excellent study guide one or two chapters were slightly over my head so to speak, but in general excellent!

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