

MRI SAFETY BOOK TEXTBOOKS – 2016

MRI Bioeffects, Safety, and Patient Management Editors -Frank G. Shellock, Ph.D. and John V. Crues, M.D. (© 2014, 780 pages; ISBN 978-0-9891632-0-0, hardbound) 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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Reference Manual for Magnetic Resonance Safety, Implants, and Devices: 2016 Edition ((© 2016, 740 pages; ISBN 978-0-9891632-3-1) by Frank G. Shellock, Ph.D. This internationally acclaimed series continues to be the most indispensable MRI safety textbook for radiologists, MRI technologists, and facility managers. This textbook includes fully updated guidelines and recommendations from the latest information in the peer-reviewed literature as well as documents developed by the International Society for Magnetic Resonance in Medicine (ISMRM), the American College of Radiology (ACR), the Food and Drug Administration (FDA), the National Electrical Manufacturers Association (NEMA), the International Electrotechnical Commission (IEC), the Medical Devices Agency (MDA), and the Institute for Magnetic Resonance, Safety, Education and Research (IMRSER). Features of the 2016 Edition include patient screening forms in English and Spanish and guidelines for scanning patients with “active” devices.

-**Section I** presents fully updated safety guidelines and recommendations.

-**Section II** has the latest information for implants, devices, and materials tested for the MRI environment.

-New information about the use of ferromagnetic detection systems in the MRI environment

-An **Appendix** provides website information for a few hundred biomedical companies to facilitate finding the latest company information for implants and devices.

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