

Safety in MRI: Guidelines, Rationale & Challenges



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ORGANIZING COMMITTEE: CHAIR: J. Thomas Vaughan, Jr., Ph.D., University of Minnesota, Minneapolis, MN, USA; **COMMITTEE MEMBERS:** Leonardo M. Angelone, Ph.D., Food & Drug Administration, Silver Spring, MD, USA; Maureen N. Hood, Ph.D., RN, RT(MR), FSMRT, Uniformed Services University of the Health Sciences, Bethesda, MD, USA; Ralf B. Loeffler, Ph.D., St. Jude Children's Research Hospital, Memphis, TN, USA; Ben Allen Kennedy, B.App.Sc., (MIT) MMRT, QSCAN Radiology Clinics, Brisbane, Australia; Vera K. Kimbrell, B.S., R.T.(R)(MR), Brigham & Women's Hospital, Boston, MA, USA; Michael V. Knopp, M.D., Ph.D., Ohio State University, Columbus, OH, USA; Titti Owman, R.T.(R)(CT)(MR), Lund University Hospital, Lund, Sweden; Anne Marie Sawyer, B.S., R.T.(R)(MR), FSMRT, Stanford University School of Medicine, Stanford, CA, USA; Devashish Shrivastava, Ph.D., University of Minnesota, Minneapolis, MN, USA.

TARGET AUDIENCE: This workshop is designed for physicians, physicists, engineers, students, technologists, radiographers and anyone else responsible for safety in MR, in addition to anyone involved in the development of technology and guidelines and procedures that will influence MR safety in practice.

OVERVIEW

This three-day workshop on MR Safety will be explored and explained from the perspectives of:

- regulatory groups;
- clinical practice;
- science; and
- industry.

The workshop will devote separate MR safety days to

- the static magnet field (B_0);
- the switched gradient fields (dB_0/dt); and
- the radiofrequency field (RF).

Up-to-date, comprehensive education on MR Safety is the goal.

The MR Safety Workshop will feature presentations and discussions lead by topic experts. Additionally, scientific and clinical posters and talks selected from invited abstracts will be presented during the meeting. The workshop will address recent safety issues associated with new technologies such as ultra-high field strength MR systems, parallel transmit systems and high performance gradient systems as used in modern neuroimaging.

EDUCATIONAL OBJECTIVES

Upon completion of this activity, participants will be able to:

- Assess MR safety concerns related to static magnetic fields, time-varying gradient fields and RF fields;
- Interpret and implement current MR safety standards and guidelines;
- Evaluate risks related to the MR safety of implants and devices;
- Interpret the risks related to ultra-high magnetic fields; and
- Differentiate RF heating patterns of conventional and parallel transmission systems

**FOR MORE INFORMATION INCLUDING HOUSING & REGISTRATION,
PLEASE VISIT:**

ismrm.org/workshops/Safety14/

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