

RC329

**Should I Scan That Patient: Updates and an Interactive Session on MR Safety and Regulations (A Very Interactive Session)**

Tuesday, Nov. 29 8:30AM - 10:00AM Room: E351

**MR** **SQ**AMA PRA Category 1 Credits™: 1.50  
ARRT Category A+ Credits: 1.50

Jerry W. Froelich, MD, Minneapolis, MN, (froel005@umn.edu) (*Presenter*) Researcher, Siemens AG  
Thomas L. Chenevert, PhD, Ann Arbor, MI (*Presenter*) Consultant, Koninklijke Philips NV  
Jay K. Pahade, MD, New Haven, CT (*Presenter*) Consultant, Precision Imaging Metrics, LLC

**LEARNING OBJECTIVES**

1) Gain a better understanding of how to manage life threatening emergencies that may occur within the MRI scanner and when or if to quench the magnet. 2) Learn the proposed guidelines for performing needed MRI's in patients with Implanted Cardiac Electronic Devices (ICED's). 3) Answer questions regarding real-life MR safety questions and how to analyze potential issues and make an educated decision as to whether to perform an MRI on a particular patient. and 4) Ask and discuss MR safety issues from their own practice experiences. Based on these learning objectives the participants should be able to provide a safer MRI environment for their patients, technologists and visitors.

**ABSTRACT**

With 100's of millions of MRI scans having been performed worldwide there is a sense that the number of MR safety related injuries and medical-legal cases resulting from injuries is increasing and thus there is a need for greater MRI safety education and regulation. As practitioners of MRI examinations, the safety of patients undergoing MRI studies is critically important and there are frequent questions regarding a number of safety issues; i.e., implanted metal devices, implanted electronic devices, tattoos, drug patches, post surgical devices, medical conditions, retained metals and wires, etc. The landscape of new questions regarding the pre-scan risk / safety of patients, technologists and visitors continues to expand almost daily and thus a need for rapid updating of MRI safety related education and the opportunity to ask questions. This refresher course will provide four distinctive opportunities for MRI safety education: The initial presentation will be on "When to Push the Red Button" to quench the MRI system, the second presentation will be a status report on the developing standards to perform clinically needed MRI scans on patients with implanted cardiac electronic devices (ICED's), the third will be an highly interactive session on real-life examples of MR safety questions and a final session of audience directed questions and discussion. The presenters will utilize the "audience response system" and web initiated questions to enhance the overall participation and discussion.