ISMRM ONE COMMUNITY FOR CLINICIANS AND SCIENTISTS

BRIDGING THE GAP BETWEEN CLINICAL NEEDS AND TECHNOLOGICAL SOLUTIONS

International Society for Magnetic Resonance in Medicine www.ismrm.org

ISMRM SCIENTIFIC WORKSHOP SERIES 2015

GROUND-BREAKING MR SCIENCE • SUPERIOR MR EDUCATION • GLOBAL NETWORKING

ISMRM Workshop on: MRI in the Management of Breast Disease: Past, Present & Future

San Francisco, CA, USA • 12–15 February 2015

TARGET AUDIENCE: This workshop is designed for basic scientists and physicians using MR in breast disease diagnosis and research; Clinicians (oncologists, radiologists, pathologists, surgeons); and Students and Residents starting in the field of breast imaging.

ORGANIZING COMMITTEE CO-CHAIRS:

Co-Chair: Ileana Hancu, Ph.D., GE Global Research, Niskayuna, NY, USA;

Co-Chair: Elizabeth A. Morris, M.D., F.A.C.R., Memorial Sloan-Kettering Cancer Center, New York, NY, USA

COMMITTEE MEMBERS:

Bruce L. Daniel, M.D., Stanford University, Stanford, CA, USA;

Brian A. Hargreaves, Ph.D., Stanford University, Stanford, CA, USA;

Robert E. Lenkinski, Ph.D., UT Southwestern Medical Center, Dallas, TX, USA

OVERVIEW

This workshop will have a few goals. First, it is intended to survey the state of breast cancer diagnosis and management, and the place of MRI in the current clinical workflow. It is intended to offer clinical education to workshop attendants with a technical background, and technical education for clinicians new to breast MRI. The advantages and shortcomings of the current techniques used in breast MRI will be discussed. New and emerging approaches, such as DWI, DTI, MRS, 23Na, elastography, will also be presented.

Fundamentally, we aim to gather a number of technical and clinical experts in the field, both believers and skeptics in the usefulness of MRI in breast disease management. We'd like to provide an open forum for discussion, in which lessons learned are discussed, and most promising avenues for clinical and technical research are highlighted, if not agreed upon.

A large number of proffered talks are envisioned, giving visibility to many young and experienced scientists and clinicians working in the field, and to a large array of subtopics in the area of breast imaging.

EDUCATIONAL OBJECTIVES

Upon completion of this workshop, participants should be able to:

- Describe the standard clinical implementation and uses for breast MRI;
- Review possible pitfalls associated with the use of MRI in breast disease management;
- Examine the factors that can impact image quality in breast MRI and list solutions that can mitigate such problems;
- Discuss the principles and use of breast DWI;
- Identify several emerging technologies that can complement standard dynamic contrast enhanced imaging;
- Explain how PET/PEM imaging can complement MRI for breast disease management; and
- List the advantages and disadvantages of current/future contrast agents.

PROGRAM HIGHLIGHTS

As an added highlight, there will be an optional Hands-On Breast MRI Workshop Course in which attendees will have the opportunity to independently review 100 breast MR cases at individual workstations. Each case includes a case report explaining the key findings, pathology and a brief case discussion. Faculty will be available to answer questions. Attendees completing a minimum of 100 cases will receive a certificate that can be applied towards the ACR Breast MRI Accreditation requirements. There is a separate registration fee for this activity.

The International Society for Magnetic Resonance in Medicine designates this live activity for a preliminary maximum of 10 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in this activity.

The International Society for Magnetic Resonance in Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The International Society for Magnetic Resonance in Medicine designates this live activity for a preliminary maximum of 13.5 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.