

SMRT 17th Annual Meeting – Toronto, Ontario, Canada
“MR Education Unlimited”
Speaker Topic Objectives

3 May 2008 - Saturday Talks:
In order by Program schedule...

Cindy Comeau, B.S., R.T., (N)(MR)

Title: Clinical Cardiac MRI: Optimize Your Workflow!

Objectives:

1. Understand the importance to understanding cardiac anatomy and the acquisition of correct scan planes.
2. Be able to recognize protocol adjustments for specific clinical presentations.
3. Be able to recognize imaging artifacts and how to correct for them.

Dominic Kennedy, Ba.App.Sci.

Title: Challenges in Musculoskeletal MRI

Objectives: Musculoskeletal imaging is a vital component of MRI scanning. The majority of MRI sites worldwide would perform MSK MRI on a routine basis and have standard protocols for each MSK region. Whilst MSK is imaged ‘routinely’ there are still unique technological challenges that need to be overcome, particularly with the small peripheral joints. The aim of this talk is to provide some different ideas and approaches to scanning these technically challenging MSK areas.

Topics to include:

- Imaging of the Triangular Fibrocartilage (TFC) in the wrist.
- Imaging the Anterior Cruciate Ligament (ACL) in the knee.
- Imaging of the biceps tendon in the elbow.
- Using IV contrast to help highlight MSK pathology.
- Imaging of small joints - fingers and toes.

At the end of the lecture it is hoped people take away a new approach or concept in relation to imaging challenging areas in MSK.

James Stuppino, B.S., R.T., (R)(MR)

Title: Veterinary MRI

Objectives: Students will understand the similarities and differences performing MRI scans on veterinary patients, including safety screening, SAR limitations and patient anatomy. Interesting and relevant case presentations will be presented.

Thomas Helbich, M.D.

Title: Hot Topics in Breast MRI

Objectives:

1. To review technical elements to perform high resolution dynamic breast MRI
2. To introduce how to interpret lesions based on the morphology and kinetics
3. To discuss MR-guided interventional techniques

Leena Mammen, M.D.

Title: Imaging the Pregnant Patient

Objectives:

- 1) Understand the importance and growing need for MRI imaging during pregnancy
- 2) Understand the current guidelines for imaging pregnant patients
- 3) Learn common indications for which MRI may be ordered during pregnancy
- 4) Learn different imaging techniques for imaging pregnant patients
- 5) Case examples of maternal imaging

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4 May 2008 - Sunday Talks:
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Russell Norman Low, M.D.

Title: Body MRI 2008: Tips and Techniques and New Advances

Objectives:

1. Present new development in MR hardware, coils, and pulse sequences for body MR imaging.
2. Review some of the new pulse sequences useful for body MR imaging including volumetric imaging, water selective imaging, and diffusion weighted MRI.
3. Describe new MR techniques for body MRI including whole body MRI and perfusion imaging of abdominal and pelvic tumors.

Jason Polzin, Ph.D.

Title: Parallel Imaging

Objectives: To understand the basic principles of parallel imaging including the expected benefits and limitations.

Emanuel Kanal, M.D., F.A.C.R., FISMRM, AANG

Title: Safety Forum: MR Safety Update

Objectives: "NSF, Renal Failure, and GBMCAs: State of the Art, 2008"

After attending this lecture, the attendee will be able to:

- 1) List the major presenting symptoms and findings seen in patients with NSF
- 2) Describe the major theories as to the association between NSF and the administration of GBMCAs to renal disease patients
- 3) Compare the similarities and differences between recommended practices from various organizations such as the FDA, European Medicines Agency, and the ACR
- 4) Compare the similarities and differences among the various GBMCAs available today and the incidence of reports of development of NSF in renal disease patients
- 5) List recommended practices to decrease the incidence of NSF

John Posh, R.T., (R)(MR)

Title: Challenges & Opportunities for the MR Safety Officer

Objectives:

- ◆ Understand the definition of safety
- ◆ Know the basic categories of risk associates with MRI
- ◆ Have a detailed knowledge of access control
- ◆ Be able to relate the essential elements of a safety training program

John Christopher, B.A., R.T., (R)(MR)

Title: MR Imaging Artifacts & Remedies Forum

Objectives: To make the audience aware of the regional and global environment and the method of imaging and that not all artifacts are necessarily deemed poor imaging.

To identify the nature of an artifact and how to address it.

To help understand if the artifact is unexpected or unwanted and how it affects the interpretation of the study.

Laurian Rohoman, R.T., (R)(MR), ACR

Title: MR Imaging Artifacts & Remedies Forum

Objectives:

- To present the most common artifacts that occur in MR imaging.
- Demonstrate methods to minimize certain artifacts.
- To show artifacts that are useful for diagnostic purposes.