Kanal s MR Medical Director/ MR Safety Officer Training Course

The only course targeted specifically at providing the education necessary to comfortably undertake the responsibilities of being an MR Medical Director/MR Safety Officer.

This course is being provided twice in 2014 at two different venues:

JUNE 16 - 17, 2014 CAESARS PALACE LAS VEGAS, NEVADA

Opening Talk and Q&A given by LEONARD LUCEY, JD, LLM Senior Director and Legal Counsel for Quality and Safety, ACR

SEPTEMBER 8 - 9, 2014
HILTON MCLEAN TYSONS CORNER
WASHINGTON, DC

Opening Talk and Q&A given by TERRY O. WOODS, Ph.D., Office of Science & Engineering Labs, FDA

Offers up to 16 hours of CME Credit

PREVIOUS ATTENDEE COMMENTS:

From Kanal's MR Physics and How to Clinically Apply It

"Absolutely the BEST educational seminar I have EVER attended."

"Dr. Kanal has an excellent way of making the hardest topics understandable."

"I wish I could put this information in a bottle and pour it out again and again."

"I can't believe how much I've learned."

"This course was a joy.
Dr. Kanal's passion is
contagious!"

"What did I enjoy least about this course? The fact that it ended!"

"I have learned more in four days than in 2.5 years!"

Presented By:

Medical Imaging CME Consultants and Northwest Imaging Forums, Inc.

Sponsors:

Guerbet Group Bracco Diagnostics Inc. Kopp Development, Inc. Metrasens

Emanuel Kanal, MD, FACR, FISMRM, AANG

Director, Magnetic Resonance Services Professor of Radiology and Neuroradiology University of Pittsburgh Medical Center

Dr. Kanal has been involved in researching and teaching the world about magnetic resonance (MR) safety issues for more than 30 years, since the introduction of MRI as a clinical diagnostic tool. Having chaired the first magnetic resonance safety committee ever created, he also chaired numerous other MR safety committees and has been continually involved in and/or leading MR safety initiatives ever since. These include, among others, having chaired the MR Safety Committee for the American College of Radiology from its inception in 2001 until the summer of 2012, being awarded fellowship in the American College of Radiology as well as the International Society of Magnetic Resonance in Medicine, and being named a Special Government Employee to the Food and Drug Administration on MR safety issues for both the Division of Medical Imaging and Hematology Products/Drug Safety group (of the Office of Surveillance and Epidemiology) regarding magnetic resonance contrast agents as well as the FDA Center for Devices and Radiological Health regarding all matters relating to magnetic resonance safety.

Dr. Kanal has served as a consultant for MR safety issues with innumerable industry and pharmacy representatives, from MR system manufacturers to implant manufacturers to MR pharmaceutical firms to manufacturers of devices designed to be used in and around MR suites. He has been involved in an advisory/consultant role and/or as an expert witness in hundreds of legal cases including those involving/alleging radiofrequency thermal issues or burns from MR imaging examinations, projectile effect events/injuries related to the interactions between the magnetic field of the MR scanner and metallic objects in the MR environment, those alleging auditory injury/tinnitus, and cases involving nephrogenic systemic fibrosis and/or other gadolinium-based contrast agent related adverse events, among others.

Dr. Kanal is the lead author of the American College of Radiology's Guidance Document for Safe MR Practices in all four of its published versions and updates (2002, 2004, 2007, and the recently published 2013 update). As an educator, Dr. Kanal has taught more people about MR safety issues than any other physician in the world today, and has provided several hundred visiting professorships and invited societal lectures and conferences on this topic over the past three decades.

Accreditation

This CME activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the Joint Sponsorship of the Institute for Medical Studies (IMS) and Medical Imaging CME Consultants. The Institute for Medical Studies is accredited by the ACCME to provide continuing medical education for physicians. The Institute for Medical Studies designates this live activity for a maximum of 16 *AMA PRA Category 1 Credits*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Nurses: For the purpose of recertification, the American Nurses Credentialing Center accepts *AMA PRA Category 1 Credits*TM issued by organizations accredited by the ACCME. Other Credit: Many societies and credentialing bodies accept *AMA PRA Category 1 Credits*TM as equivalent CE or CEU as long as the topic is in the applicant's field or discipline. However, it is advisable that if an individual is unsure whether their attendance can be used towards certification or re-licensure they should check with their governing body.

This MRI program has been submitted for approval of 16 hours category A CE technologist credit. To receive the maximum amount of credit hours, you must attend all the sessions. Verification of attendance policies will be in place for each lecture.

This course has been approved for up to 16 MPCEC hours (Medical Physics Continuing Education Credit) by the Commission on Medical Physics Education Programs.

Educational Objectives and Course Descriptions

16 Hour MR Medical Director / MR Safety Officer

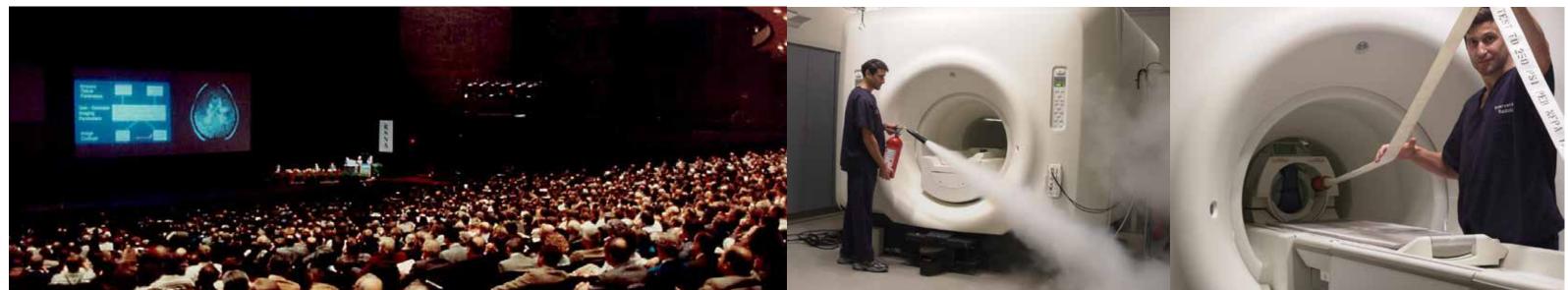
The American College of Radiology Guidance Document for Safe MR Practices has solidly established itself as the standard of care for how one should safely practice in the MR environment. In addition to near universal acceptance throughout the radiologic community, it has been repeatedly established in innumerable legal actions as the standard against which our actions in this regard are judged. All four published versions of the ACR's Guidance Document for Safe MR Practices, including the most recent 2013 update published only a few months ago, call for each MR site to name an MR Medical Director and/or MR Safety Officer, who would serve as the ultimate authority and resource for all questions and decisions related to MR safety. In this regard, there is a significant shortage of individuals in the world today who have sufficient background and knowledge in the subject matter to feel comfortable being named as the MR Medical Directors or MR Safety Officers for their MR imaging centers and sites. This course is specifically targeted to supporting those whose job it is - or will be - to fulfill these requirements of MR Medical Director or MR Safety Officer.

This Course is Conceptually Divided into Three Unique Parts

- 1. Teaching and reviewing the basic principles underlying the potential areas of safety concern involved in the MR imaging process and magnetic resonance environment.
 - a. Defining the roles and responsibilities of the MR Medical Director and the MR Safety Officer and how they interact with those of the referring physician, radiologist, and MR technologist
 - b. Reviewing the newly released Joint Commission requirements for MR Safety and how to ensure site compliance with these newly issued guidelines.
- 2. Defining thought process algorithms for assessing whether a patient/device/implant/foreign object can safely undergo MR imaging; reviewing the risk benefit assessment process and establishing protocols and guidelines as to how to formalize the risk benefit ratio assessment for each patient.
- 3. Medicolegal aspects of MR safety: Learning from the mistakes of others. In this section, numerous real legal cases in which MR safety-related medical malpractice was alleged will be reviewed and analyzed. The objective will always be to learn how to decrease the likelihood of similar issues arising with your patients in your own MR practice.

Topics to be Covered Include, Among Others:

- Static magnetic fields Considerations related to torque, translation, Lenz's forces, flow potentials, magnetohydrodynamic effects
- RF magnetic fields thermal/heating concerns
- Gradient magnetic fields auditory concerns and induced voltages/neuromuscular stimulation potential
- Safety of GBCA: Nephrogenic Systemic Fibrosis (NSF)
- Safety of GBCA: Non-NSF-Related Adverse Events
- Cryogen safety considerations
- Implant safety; clinical application and decision making
- Pregnancy and MRI
- To scan or not to scan
- Legal considerations: Learning from the mistakes of others. Overview, in depth case histories, analysis, avoidance



16 CE/CME Credit Hours of MR Medical Director / MR Safety Officer Training

All lectures will be given by Dr. Kanal unless otherwise noted.

Day 1 (8.0 Hours)

Schedule times and contents are subject to change

Monday, June 16	
Caesars Palace · Las Vegas.	NV

Monday, September 8 Hilton McLean Tysons Corner · Washington, DC

7:00	Registration Desk	Opens - Coffee,	Tea & Pastries
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7:50 Opening Announcements - Matt Wilson

8:00 MR Safety: Where we have been, where we need to go.



From the vantage point of the ACR -LEONARD LUCEY, JD, LLM

Senior Director and Legal Counsel for Quality and Safety, American College of Radiology



From the vantage point of the FDA -TERRY O. WOODS, Ph.D. Office of Science & Engineering Labs, Food and Drug Administration

The MR Medical Director, MR Safety Officer, the referring physician, the radiologist, the 8:30 MR technologist: Definitions, roles, responsibilities. The team approach.

Static magnetic fields - Part I 9:00

Coffee Break 10:00

Static magnetic fields - Part II 10:15

RF magnetic fields - Part I 11:15

Lunch on Your Own 12:15

1:15 RF magnetic fields - Part II

Gradient magnetic fields 2:15

Soft Drink Break 3:15

Safety of GBCA - Part I 3:30

Safety of GBCA - Part II 4:30

5:30 End of Session

Tuesday, June 17 Caesars Palace · Las Vegas, NV

End of Session

Tuesday, September 9 Hilton McLean Tysons Corner · Washington, DC

7:00	Registration Desk Opens - Coffee, Tea & Pastries
7:50	Announcements - Matt Wilson
8:00	Cryogen safety considerations
9:00	Implant safety; clinical application and decision making - Part I
10:00	Coffee Break
10:20	Implant safety; clinical application and decision making - Part II
11:20	To Scan or Not To Scan
12:20	Lunch on Your Own
1:20	Pregnancy and MRI
2:20	Legal considerations: Overview, in depth case histories and review
3:20	Soft Drink Break
3:40	Legal considerations: Case Histories of Prior MR Safety Related Legal Cases: Learning from the mistakes of others
4:40	Legal considerations: Mock Trials and Defense Review

Day 2 (8.0 Hours)

Schedule times and contents are subject to change

(Faculty, topics & format subject to change)

Presentations will be given in the traditional classroom lecture format using slides. Each presenter will allow time to field questions from the audience. The handout will provide "take away" self-review material. Permission for the use of copyrighted materials will be obtained if needed.

This CME/CE activity is designed for Radiologists and/or other Physicians, Technologists/ Radiographers, Physicists, Healthcare Risk Managers, MR Research personnel, and any other present and/or future MR Medical Directors or MR Safety Officers.



Caesars Palace

We will meet in the fabulous Caesars Palace Hotel & Casino. From the moment you walk through the doors of Caesars Palace, you'll understand why this iconic Las Vegas luxury hotel sets the standard for opulent details, impeccable service and lavish Las Vegas accommodations. Special touches make the difference between an ordinary visit to Vegas and a spectacular experience – and it's all yours at Caesars Palace.

Hilton McLean Tysons Corner

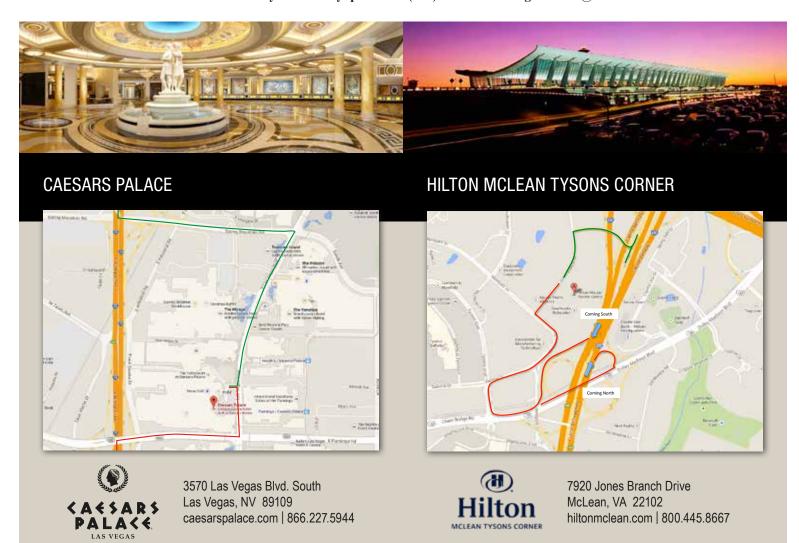
Expect impressive facilities and impeccable service at the stunning Hilton McLean Tysons Corner hotel, a contemporary hotel near Washington DC. The hotel situated in the center of Tysons Corner's technology corridor, between Ronald Reagan National Airport and Washington Dulles International Airport. This McLean, Virginia hotel is 12 miles from the Washington Convention Center and minutes from world-class shopping.

Room Reservations

- We have been given special reduced sleeping room rates at Caesars Palace of \$135.00 per night plus tax and resort fees.
- Please contact the hotel by dialing toll free (866) 227-5944 or use the following link:
- resweb.passkey.com/go/SCNIF4
- Attendees must identify their affiliation with Northwest Imaging Forums or group code SCNIF4
- · Cutoff Date is Friday May 23rd, 2014

- We have been given special reduced sleeping room rates at Hilton McLean Tysons Corner of \$209.00 per night plus tax
- Please contact the hotel by dialing toll free (800) 445-8667 or direct at (703) 847-5000.
- Attendees must identify their affiliation with Northwest Imaging Forums or group code FALL MRI **CONFERENCE**
- Cutoff Date is August 18, 2014

Please call or email us if you have any questions: (888) 683-4930 or registration@nwforums.com



Cancellation Policy

All cancellation requests must be in writing.

- 1. Cancellations received on or before Las Vegas: 05/01/14; DC: 07/25/14 will receive a full refund. Those received after Las Vegas: 05/01/14; DC: 07/25/14 but through Las Vegas: 06/02/14; DC: 08/25/14 are subject to a 25% service charge.
- 2. No credit or refunds are available on or after Las Vegas: 06/03/14; DC: 08/26/14. No exceptions will be made.
- 3. In the event that any situation beyond the control of NWIF makes it impossible to conduct the meeting as advertised, each paid attendee will receive a voucher to attend a future NWIF meeting.

Registration Fees

- Early Fee is payment received on or before Las Vegas: 05/01/14; DC: 07/25/14
- Standard Fee is payment received after Las Vegas: 05/01/14; DC: 07/25/14 through Las Vegas: 06/02/14; DC: 08/25/14
- Late Fee is payment received on or after Las Vegas: 06/03/14; DC: 08/26/14

Kanal's MR Medical Director / MR Safety Officer Training Course

Physicians:

Early Fee **\$1000** Standard Fee \$1050 Late Fee \$1100

Physicists and Other Health Care Professionals:

Early Fee \$750 Standard Fee \$800 Late Fee \$850

Technologists:

Please check one:

> Forums, Inc. P.O. Box 25909

Eugene, Oregon 97402

Early Fee \$500 Standard Fee \$550 Late Fee \$600

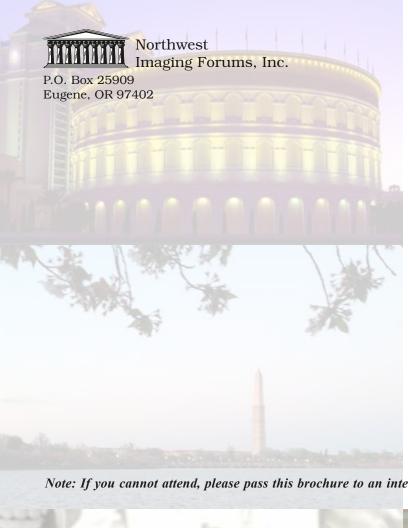


Registration Form (Please Print - this form may be copied)

Please check one:	Registration is also available online at: www.nwforums.com		
☐ Kanal MR Safety: Summer	Note — Registration is confirmed and processed only when payment is received. Name (print)		
June 16-17 Caesars Palace Las Vegas, NV	Email Address (print)		
	Facility		
☐ Kanal MR Safety: Fall	The address below is (circle one): Work	Home	
September 8-9	Street		
Hilton McLean Tysons Corner Washington, DC	City	StateZip code	
maoning con, 20	Day Phone ()(circ	le one) Work Home	
	Payment enclosed or amount charged to credit card \$		
Visit our website at	Charge to: ☐ VISA ☐ MasterCard	☐ American Express ☐ Discover	
www.mrisafetycourse.com for further details	Card Number	Exp. Date	
and online registration.	3-Digit Credit Card Security Code (found on back of card)		
	Name on Card (print)		
	Card Holder Signature (required)		
Make checks payable / send registration	Please contact us to register or with questi		
form to:	Phone: (888) 683-4930 Toll Free (541) 683-4930 Direct		
Northwest Imaging Forums, Inc.	Fax: (541) 683-8499	•	
PO Box 25909	E-mail: registration@nwforums.com		

Web site: www.nwforums.com

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Note: If you cannot attend, please pass this brochure to an interested colleague.



MASHINGTON, DC HILTON MCLEAN TYSONS CORNER SEPTEMBER 8 - 9, 2014

LAS VECAS, NEVADA CAESARS PALACE 10NE 16 - 17, 2014

MR Safety Officer Training Course Kanal s MR Medical Director