

# Hot Topics in Radiology:

## Advanced Applications and Artificial Intelligence

Release Date: July 1, 2021 | 14.0 AMA PRA Category 1 Credit(s)<sup>TM</sup>

### About This CME Teaching Activity

This symposium is designed to provide an update on a variety of new cutting-edge developments in diagnostic imaging and intervention. Topics include new techniques and practical applications of MRI and CT with a primer on artificial intelligence and machine learning. Emphasis of this meeting is on the practical clinical uses of new technologies and their impact on the future of radiology practice. Faculty members have been selected for their teaching ability, as well as their expertise.

### Target Audience

This CME activity is primarily intended and designed to educate diagnostic imaging physicians who perform and interpret imaging examinations. The content will be beneficial to Neurologists, Emergency Medicine Physicians and General Practitioners who order or integrate imaging information into practice management, as well as radiologist technologists.

### Scientific Sponsor

Educational Symposia

### Accreditation

**Physicians:** Educational Symposia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Educational Symposia designates this enduring material for a maximum of 14.0 AMA PRA Category 1 Credit(s)<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**SA-CME:** Credits awarded for this enduring activity are designated "SA-CME" by the American Board of Radiology (ABR) and qualify toward fulfilling requirements for Maintenance of Certification (MOC) Part II: Lifelong Learning and Self-assessment.

All activity participants are required to take a written or online test in order to be awarded credit. (Exam materials, if ordered, will be sent with your order.) All course participants will also have the opportunity to critically evaluate the program as it relates to practice relevance and educational objectives.

AMA PRA Category 1 Credit(s)<sup>TM</sup>  
for this activity may be claimed until June 30, 2024.

This program is planned and organized by Educational Symposia, a leader in accredited continuing education since 1975.

This activity was planned and produced in accordance with the ACCME Essential Areas and Elements.

### Educational Objectives

At the completion of this CME teaching activity, you should be able to:

- Discuss new cutting-edge applications of MRI and CT imaging.
- Compare the utility of MRI and CT in the evaluation of various musculoskeletal, neuro and cardiovascular applications.
- Discuss the utility of MRI and CT in the workup of spine disease and intervention.
- Discuss the clinical indications and applications of artificial intelligence and medicine.
- Discuss the impact of artificial intelligence and machine learning in radiology.

*No special educational preparation is required for this CME activity.*

## Faculty

### Thomas M. Grist, M.D., FACR

*John H. Juhl Professor of Radiology,  
Medical Physics and Bioengineering  
Chairman, Department of Radiology  
University of Wisconsin-Madison School of Medicine  
and Public Health  
Madison, WI*

### William B. Morrison, M.D.

*Consultant for Philadelphia Eagles, Phillies,  
Flyers and Sixers  
Professor of Radiology  
Director, Musculoskeletal Radiology Division  
Department of Radiology  
Thomas Jefferson University  
Philadelphia, PA*

### Kambiz Nael, M.D.

*Professor of Radiology  
Department of Radiological Sciences  
David Geffen School of Medicine at UCLA  
Los Angeles, CA*

### Katja Pinker, M.D., Ph.D., EBBI

*Department of Radiology - Breast Imaging Service  
Member, Memorial Sloan Kettering Cancer Center  
Professor of Radiology Weill Cornell Medical College,  
Cornell University  
New York, NY*

### Neil M. Rofsky, M.D., MHA, FACR

*Professor and Chairman  
Effe and Wofford Cain Distinguished Chair in  
Diagnostic Imaging  
Department of Radiology  
UT Southwestern Medical Center  
Dallas, TX*

### Lawrence N. Tanenbaum, M.D., FACR

*Vice President and Chief Technology Officer  
Director of CT, MR and Advanced Imaging  
Medical Director East Region  
RadNet, Inc.  
New York, NY*

## Program

**Breast (BR):** 1.75 Hours • **Cardiac (C):** 1.25 Hours • **CT:** 2.0 Hours • **MRI:** 9.75 Hours • **Body (B):** 0.5 Hours

**MSK:** 2.25 Hours • **Safety (SF):** 0.75 Hours • **Neuro (N):** 1.5 Hours • **Angiography (AG):** 1.25 Hours • **Stroke (ST):** 1.25 Hours

**Spine (SP):** 0.75 Hours • **Artificial Intelligence (AI):** 5.0 Hours

### Session 1

- N, AI      AI in Neuro Imaging  
*Lawrence N. Tanenbaum, M.D., FACR*
- Revenue Cycle: The What's and Why's  
*Neil M. Rofsky, M.D., MHA, FACR*
- BR, MRI      Breast MRI: Indication and Practical Guide  
to Interpretation  
*Katja Pinker, M.D., Ph.D., EBBI*

### Session 2

- AI      Artificial Intelligence in Medical Imaging: So What?  
*Thomas M. Grist, M.D., FACR*
- The COVID Journey: Lessons Learned  
*Neil M. Rofsky, M.D., MHA, FACR*

### Session 3

- MRI, SF      MR Contrast Safety Update  
*Lawrence N. Tanenbaum, M.D., FACR*
- MRI, MSK      Posterolateral Corner of the Knee Made Simple!  
*William B. Morrison, M.D., FACR*

### Session 4

- C, MRI      Cardiac MRI: Morphology, Masses and  
Pericardial Disease  
*Thomas M. Grist, M.D., FACR*
- AI, B      AI in Body Imaging: So What?  
*Neil M. Rofsky, M.D., MHA, FACR*

### Session 5

- AI      AI in Image Reconstruction  
*Lawrence N. Tanenbaum, M.D., FACR*
- CT, MRI, ST      Current Imaging in Acute Ischemic Stroke  
*Kambiz Nael, M.D.*
- BR, MRI      Implementation of Multiparametric MRI in  
Clinical Routine  
*Katja Pinker, M.D., Ph.D., EBBI*
- MRI, MSK      Post Operative Shoulder: A Multimodality Approach  
*William B. Morrison, M.D., FACR*

### Session 6

- CT, MRI      Intracranial Vessel Wall Imaging  
*Kambiz Nael, M.D.*
- MRI, SP, AI      AI in Spine Imaging  
*Lawrence N. Tanenbaum, M.D., FACR*
- MRI, MSK      Using MSK MR Artifacts to Your Advantage and  
Suppressing the Ones You Don't Want  
*William B. Morrison, M.D., FACR*

### Session 7

- MRI, AG      4D Flow: Technique and Clinical Applications  
*Thomas M. Grist, M.D., FACR*
- CT, MRI, ST, AI      AI in Neuroradiology: Current Uses in Stroke Cases  
*Kambiz Nael, M.D.*

### Session 8

- AI, MRI, MSK      AI in MSK Imaging  
*William B. Morrison, M.D., FACR*
- MRI, N      Advanced Brain Tumor Imaging  
*Kambiz Nael, M.D.*

### Session 9

- MRI, AG      Imaging of Acute Aortic Syndrome  
*Thomas M. Grist, M.D., FACR*
- BR, AI      AI Applications in Breast Imaging  
*Katja Pinker, M.D., Ph.D., EBBI*

A CME Teaching Activity

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