

# 2021 MR & CT Advanced Imaging and Artificial Intelligence

Release Date: June 1, 2021 | 16.75 AMA PRA Category 1 Credit(s)<sup>TM</sup>

## About This CME Teaching Activity

This CME activity provides a cutting-edge approach to the clinical applications of MRI and CT including machine learning and artificial intelligence technology. A wide range of topics review basic to advanced clinical applications as well as integrating new innovative technologies into your clinical practice. Faculty share tips and techniques used to overcome challenges associated when adapting newer technologies into clinical practice. Emphasis of this activity is on the practical and clinical uses of newer technologies in MR and CT and adapting them into your clinical practice.

## Target Audience

This CME activity is primarily intended and designed to educate diagnostic imaging physicians who perform and interpret MRI and CT examinations. It should also be useful in educating referring physicians who order MRI and CT procedures.

## 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 16.75 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 May 31, 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:

- Optimize MR and CT imaging protocols.
- Differentiate normal from abnormal MR and CT findings of a variety of disorders.
- More accurately assess neurological disorders using MR and CT.
- Explain the clinical indications and applications of machine learning and artificial intelligence.
- Discuss how innovative technologies are changing and improving the quality of healthcare.

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

## Faculty

### Melany B. Atkins, M.D.

Director of Cardiac Imaging, Fairfax Radiological Consultants  
Medical Director Advanced Cardiac Imaging, Inova Health System  
Medical Director Fairfax MRI Center  
Fairfax, VA

### John V. Crues, III, M.D., M.S.

Medical and MRI Fellowship Director  
RadNet, Inc.  
Board Member, Turner Imaging  
Los Angeles, CA

### Reade DeLeacy, M.D., MBBS (Hons) FRANZCR

Assistant Professor of Neurosurgery and Radiology  
Director of Neurointerventional Spine Program  
Co-Director Neuroendovascular Surgery Fellowship  
Department of Neurosurgery  
Cerebrovascular Center  
New York, NY

### Blake A. Johnson, M.D., FACR

National Medical Director  
Director of Regenerative Medicine  
Center for Diagnostic Imaging  
Minneapolis, MN

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

Professor and Chairman  
Effie 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

### Bachir Taouli, M.D., MHA

Professor of Radiology  
Director of Body MRI and Cancer Imaging Program  
Vice-chair of Translational Research  
Department of Diagnostic, Molecular and Interventional Radiology  
BioMedical Engineering and Imaging  
Institute Icahn School of Medicine at Mount Sinai,  
New York  
New York, NY

### J. Pablo Villablanca, M.D., FACR

Professor of Diagnostic Neuroradiology  
Medical Director of MRI  
Director, Interventional Spine Service  
David Geffen School of Medicine at UCLA  
Los Angeles, CA

## Program

**Cardiac (C):** 1.0 Hours • **CT:** 5.25 Hours • **MRI:** 13.5 Hours • **Body (B):** 4.0 Hours • **MSK:** 2.5 Hours • **IR:** 2.0 Hour • **Safety (SF):** 0.5 Hour  
**Neuro (N):** 3.75 Hours • **Stroke (ST):** 1.0 Hours • **Spine (SP):** 1.75 Hours • **Artificial Intelligence (AI):** 3.5 Hours

### Session 1

AI, N AI in Neuroimaging  
Lawrence N. Tanenbaum, M.D., FACR

CT, MRI, IR, ST Stroke Trials Update: Pushing the Limits, Low NIHSS, Large Core and Straight to Angio  
Reade DeLeacy, M.D., MBBS (Hons) FRANZCR

MRI, N Imaging Intracranial Hemorrhage  
Blake A. Johnson, M.D., FACR

### Session 2

MRI, MSK The Impact of MRI in Understanding Pathophysiology and Treatment of Musculoskeletal Diseases  
John V. Crues, III, M.D.

MRI, B New Developments in Body MR Imaging  
Melany B. Atkins, M.D.

MRI, N Intracranial Metastatic Disease  
Blake A. Johnson, M.D., FACR

C, MRI, N Multimodal CT and MR in the Evaluation of Non-Aneurysmal, Nontraumatic Intracranial Hemorrhage  
J. Pablo Villablanca, M.D., FACR

### Session 3

AI, MRI, CT AI in Imaging Reconstruction  
Lawrence N. Tanenbaum, M.D., FACR

IR, ST Next Generation and Beyond; What's in Store for Intracranial Aneurysm Treatment  
Reade DeLeacy, M.D., MBBS (Hons) FRANZCR

C, MRI Stress Cardiac MRI  
Melany B. Atkins, M.D.

MRI, MSK Update on MRI of the Knee  
John V. Crues, III, M.D.

### Session 4

MRI, N MR of the Sella Turcica and Parasellar Region  
Blake A. Johnson, M.D., FACR

CT, MRI, SP Clearing the Injured Spine Using CT & MRI  
J. Pablo Villablanca, M.D., FACR

CT, MRI, AI AI in Cardiac Imaging  
Melany B. Atkins, M.D.

MRI, MSK MRI in Rheumatologic Diseases  
John V. Crues, III, M.D.

# Program

## Session 5

- MRI, SP     Imaging Evaluation of the Spine  
*Blake A. Johnson, M.D., FACR*
- CT, MRI, IR, SP     The Neurointerventionalist and Degenerative Spine Disease: New Avenues for Therapy  
*Reade DeLeacy, M.D., MBBS (Hons) FRANZCR*
- MRI, SP, AI     AI in Spine Imaging: Clinical Applications  
*J. Pablo Villablanca, M.D., FACR*
- MRI, B     MR Enterography in IBD  
*Bachir Taouli, M.D., MHA*

## Session 6

- MRI, MSK     MRI of the Shoulder Update  
*John V. Crues, III, M.D.*
- The COVID Journey - Lessons Learned  
*Neil M. Rofsky, M.D., MHA, FACR*
- MSK, N, AI     How Can AI Help the Neurointerventionalist and Their Patients  
*Reade DeLeacy, M.D., MBBS (Hons) FRANZCR*

## Session 7

- MRI, SF     MR Safety Update  
*Lawrence N. Tanenbaum, M.D., FACR*
- MRI, MSK, N     Hip & Pelvic Pain – Commons Causes & Minimally Invasive Treatments  
*J. Pablo Villablanca, M.D., FACR*
- MRI, B     HCC and Cholangiocarcinoma  
*Bachir Taouli, M.D., MHA*
- CT, MRI, B     Addressing Pancreatic Cysts in Practice  
*Neil M. Rofsky, M.D., MHA, FACR*

## Session 8

- CT, MRI, AI     AI for Body Imaging: So What?  
*Neil M. Rofsky, M.D., MHA, FACR*
- MRI, B     Pancreatic Cancer Response  
*Bachir Taouli, M.D., MHA*
- C, CT     Advanced Cardiac CT Imaging  
*Melany A. Atkins, M.D.*

## Session 9

- MRI, B     Rectal Cancer Staging  
*Bachir Taouli, M.D., MHA*
- MRI, B     Multiparametric Prostate MRI  
*Neil M. Rofsky, M.D., MHA, FACR*
- CT, MRI     Radiomics and AI Applications in Liver Imaging  
*Bachir Taouli, M.D., MHA*

A CME Teaching Activity

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