

# 2021 Classic Lectures in Body Imaging with MR & CT



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**Release Date: August 1, 2021**

**MR** | 18.75 AMA PRA Category 1 Credit(s)<sup>™</sup>

## About This CME Teaching Activity

This activity is designed to provide a practical yet comprehensive review of body MR imaging including the latest protocols and emerging technologies. The faculty explains state-of-the-art clinical information and applications. Pearls and pitfalls on how to best image the body using MR will be presented.

## Target Audience

This CME activity is primarily intended and designed to educate diagnostic imaging physicians. It should also be useful for referring physicians who order these studies so that they might gain a greater appreciation of the strengths and limitations of clinically relevant MR studies.

## 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 18.75 AMA PRA Category 1 Credit(s)<sup>™</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>™</sup>  
for this activity may be claimed until July 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:

- Incorporate state-of-the-art imaging protocols to efficiently evaluate the body using MRI into clinical their practice.
- Describe the expanding role of MRI in assessing abdomen and pelvis.
- Optimize body MR angiography protocols and techniques.
- Differentiate benign and malignant neoplasms of the liver, pancreas, bowel and genitourinary system with MRI.

*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*

### **Robert R. Edelman, M.D.**

*Professor of Radiology  
Feinberg School of Medicine,  
Northwestern University  
Chairman of Radiology  
NorthShore University Health System  
Evanston, IL*

### **John F. Feller, M.D.**

*Medical Director  
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Assistant Clinical Professor of Radiology  
Loma Linda University School of Medicine  
Loma Linda, CA*

### **Scott D. Flamm, M.D., M.B.A.**

*Professor of Radiology  
Cleveland Clinic Lerner College of Medicine of Case  
Western Reserve University  
Head, Cardiovascular Imaging  
Imaging, and Heart & Vascular Institutes  
Cleveland Clinic  
Cleveland, OH*

### **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*

### **Russell N. Low, M.D.**

*Medical Director  
Sharp and Children's MRI Center  
San Diego, CA*

### **Courtney C. Moreno, M.D.**

*Associate Professor of Radiology  
Emory University School of Medicine  
Atlanta, GA*

### **Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM**

*Chief, Breast Imaging Service  
Larry Norton Endowed Chair, Memorial Sloan  
Kettering Cancer Center*

### **Colleen H. Neal, M.D.**

*Director, Division of Breast Imaging  
Clinical Associate Professor  
Department of Radiology  
University of Michigan  
Ann Arbor, MI*

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

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

### **Bachir Taouli, M.D.**

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

### **Eric E. Williamson, M.D.**

*Consultant & Chair  
Division of Cardiovascular Radiology  
Department of Radiology  
Mayo Clinic  
Associate Professor of Radiology  
Mayo Clinic College of Medicine  
Rochester, MN*

# Program

**Body (B):** 9.75 Hours • **MRA:** 8.25 Hours • **Safety (S):** 0.75 Hours • **Breast (BR):** 4.0 Hours • **Cardiac (C):** 4.0 Hours

## Session 1

- B MR Screening for Hepatocellular Carcinoma  
*Courtney C. Moreno, M.D.*
- B HCC and Cholangiocarcinoma  
*Bachir Taouli, M.D.*
- B, MRA Primary and Metastatic Liver Tumors: Monitoring Treatment with MRI  
*Russell N. Low, M.D.*

## Session 2

- B MR Evaluation of Biliary Disease  
*Courtney C. Moreno, M.D.*
- B MRI of the Gastrointestinal Tract  
*Russell N. Low, M.D.*
- B MR Enterography in IBD  
*Bachir Taouli, M.D.*

## Session 3

- B MRI of the Acute Abdomen  
*Russell N. Low, M.D.*
- B, MRA Body DWI: Current Status  
*Bachir Taouli, M.D.*
- B Advanced Imaging Techniques for the Body: Pearls and Pitfalls  
*Robert R. Edelman, M.D.*

## Session 4

- B, MRA, S MR Angiography With and Without Contrast Agents  
*Robert R. Edelman, M.D.*
- B, MRA Malignant Uterine and Adnexal Masses: Staging and Management  
*Russell N. Low, M.D.*
- B Unusual Body MRI Cases  
*Robert R. Edelman, M.D.*

## Session 5

- B MR Staging of Rectal Cancer  
*Courtney C. Moreno, M.D.*
- B Multiparametric MRI of the Prostate: Beyond Prostate Cancer What Else Do We See?  
*John F. Feller, M.D.*
- B Multiparametric Prostate MRI  
*Neil M. Rofsky, M.D., FACR*
- B PI-RADS Knowns and Unknowns  
*Neil M. Rofsky, M.D., FACR*

## Session 6

- C, MRA Introduction to Cardiac MRI  
*Eric E. Williamson, M.D.*
- C, MRA Cardiac MRI  
*Robert R. Edelman, M.D.*
- C, MRA MRI in Ischemic Heart Disease: Myocardial Viability  
*Scott D. Flamm, M.D., M.B.A.*
- C, MRA Stress MRI  
*Melany Atkins, M.D.*

## Session 7

- C, MRA Practical Cardiac MRI: Left Ventricular and Valvular Function  
*Scott D. Flamm, M.D., M.B.A.*
- C, MRA MRI of Myocardial Ischemic Disease  
*Eric E. Williamson, M.D.*
- C, MRA MRI/MRA in Congenital Heart Disease  
*Scott D. Flamm, M.D., M.B.A.*

## Session 8

- MRA MR of Pulmonary Embolic Disease  
*Thomas M. Grist, M.D., FACR*
- MRA MRA of Thoracic Aortic Disease  
*Scott D. Flamm, M.D., M.B.A.*

## Session 9

- BR Breast MRI Interpretation  
*Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM*
- BR MRI Evaluation of the Augmented and Postsurgical Breast  
*Colleen H. Neal, M.D.*
- BR High Risk Breast Screening with MRI  
*Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM*
- BR Breast MRI BI-RADS Update  
*Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM*

## Session 10

- BR Auditing Your Breast MRI Practice  
*Colleen H. Neal, M.D.*
- BR Breast Cancer Staging in the Dense Breast  
*Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM*
- BR Breast MRI Challenging Cases  
*Colleen H. Neal, M.D.*
- BR Advancement in Breast MRI: What is on the Horizon  
*Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM*

# 2021 Classic Lectures in Body Imaging with MR & CT



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COURSES

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Release Date: August 1, 2021

CT | 21.75 AMA PRA Category 1 Credit(s)<sup>TM</sup>

## About This CME Teaching Activity

This CME activity is a comprehensive practical review of body CT imaging. The program is a detailed analysis from basic applications to more advanced protocols and new imaging techniques. Emerging technologies, pitfalls and recent technical enhancements designed to reduce radiation dose along with applications of artificial intelligence for body imaging are discussed.

## Target Audience

The CME activity is primarily intended and designed to educate diagnostic imaging physicians. It should also be useful for referring physicians who order these studies so that they might gain a greater appreciation of the strengths and limitations of clinically relevant CT studies.

## Scientific Sponsor

Educational Symposia

## Accreditation

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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:

- Recognize the CT appearance of normal anatomy and common pathology of the abdomen and chest.
- Discuss the utility of CT and CTA in the diagnosis and evaluation of abdominal trauma.
- Differentiate benign and malignant nodules in the chest, liver, pancreas and kidneys.
- Optimize body CT protocols.
- Discuss the clinical applications of artificial intelligence in body imaging.

*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*

### **Fergus Coakley, M.D.**

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### **Michael P. Federle, M.D.**

*Professor and Associate Chair for Education  
Department of Radiology  
Stanford University Medical Center  
Stanford, CA*

### **Elliot K. Fishman, M.D., FACR**

*Professor of Radiology, Surgery, Oncology,  
and Urology  
Director of Diagnostic Imaging and Body CT  
Johns Hopkins Hospital, Department of Radiology  
The Russell H. Morgan Department of Radiology and  
Radiological Science  
The Johns Hopkins University  
Baltimore, MD*

### **Douglas S. Katz, M.D., FACR, FASER, FSAR**

*Vice Chair for Research, Department of Radiology,  
NYU Winthrop  
Mineola, Long Island, New York  
Professor of Radiology, Renaissance School of  
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Section Chief of Cardiothoracic Imaging  
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*Professor of Radiology  
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Medical Director, Cancer Imaging  
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### **Dushyant V. Sahani, M.D.**

*Director of Computed Tomography/Assistant  
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### **Clint W. Sliker, M.D. FASER**

*Associate Professor  
Diagnostic Radiology and Nuclear Medicine  
University of Maryland School of Medicine  
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### **Robert M. Steiner, M.D., FACR, FACC**

*Clinical Professor of Radiology, Pulmonary Medicine  
and Thoracic Surgery  
Temple University  
Philadelphia, PA*

### **Charles S. White, M.D.**

*Professor and Vice Chair, Clinical Affairs  
Chief of Thoracic Radiology  
Department of Diagnostic Radiology and Nuclear  
Medicine  
University of Maryland School of Medicine  
Baltimore, MD*

### **Eric E. Williamson, M.D.**

*Consultant & Chair  
Division of Cardiovascular Radiology  
Department of Radiology  
Mayo Clinic  
Associate Professor of Radiology  
Mayo Clinic College of Medicine  
Rochester, MN*

# Program

**Body (B):** 13.0 Hours • **Cardiac (C):** 2.25 Hours • **Chest (CH):** 7.0 Hours • **CTA:** 8.75 Hours • **Safety (S):** 0.5 Hours • **AI:** 1.0 Hours

## Session 1

- B Expert Differential Diagnosis: Dilated Bowel  
*Michael P. Federle, M.D.*
- B Approach to a Thick Colonic Wall on CT  
*Dushyant V. Sahani, M.D.*
- B, CTA Acute Bowel and Mesenteric Injuries  
*Clint W. Sliker, M.D., FASER*

## Session 2

- B, CTA Right Lower Quadrant Pain  
*Michael P. Federle, M.D.*
- B, CTA CT of Appendicitis in Adults: Problematic Scans and Scenarios  
*Douglas S. Katz, M.D., FACR, FASER, FSAR*
- B, CTA CT Imaging of Peritoneal Disease  
*Perry Pickhardt, M.D.*
- B, AI Deep Learning: What You Need to Know as a Radiologist Today  
*Elliot K. Fishman, M.D., FACR*

## Session 3

- B, CTA CT of the Acute Abdomen: GU Applications  
*Elliot K. Fishman, M.D., FACR*
- B, CTA CT of Renal Masses: A Practical Approach  
*Fergus Coakley, M.D.*
- B, CTA Acute Pancreatitis: Multimodality Imaging  
*Douglas S. Katz, M.D., FACR, FASER, FSAR*
- B Differential Diagnosis: Cystic Pancreatic Masses  
*Michael P. Federle, M.D.*

## Session 4

- B Update on Pancreatic Cancer Imaging  
*Dushyant V. Sahani, M.D.*
- B CT Imaging of NAFLD, NASH and the Metabolic Syndrome  
*Perry Pickhardt, M.D.*
- B Expert Differential Diagnosis: The Cystic Hepatic Mass  
*Michael P. Federle, M.D.*
- B Understanding and Avoiding Malpractice in Body CT  
*Fergus Coakley, M.D.*

## Session 5

- B, CTA Acute Abdominal and Pelvic Trauma: Pitfalls and Diagnostic Pearls  
*Douglas S. Katz, M.D., FACR, FASER, FSAR*
- B Incidental Findings at Abdominal CT  
*Perry Pickhardt, M.D.*
- B, CTA Challenging Cases of the Acute Abdomen and Pelvis on CT  
*Douglas S. Katz, M.D., FACR, FASER, FSAR*
- B CT for Non-invasive Staging of Liver Fibrosis: Beyond Elastography  
*Perry Pickhardt, M.D.*

## Session 6

- B, S CT Radiation Dose: Magnitude and Mitigation  
*Fergus Coakley, M.D.*
- B Tips, Tricks and Pitfalls in Body Oncology CT  
*Dushyant V. Sahani, M.D.*
- B Pearls and Pitfalls in Body CT  
*Fergus Coakley, M.D.*
- B Dual Energy CT: Science and Practice  
*Dushyant V. Sahani, M.D.*

## Session 7

- CH Pulmonary Embolism Imaging on CT  
*Charles S. White, M.D.*
- CH Acute and Chronic Pulmonary Thromboembolism  
*Seth J. Kligerman, M.D.*
- CH Lung Cancer Screening on Low Dose CT: Current Status  
*Charles S. White, M.D.*

## Session 8

- CH Viral Lower Respiratory Tract Infections: From 1918 Spanish Influenza to 2020 COVID -19  
*Robert M. Steiner, M.D., FACR, FACC*
- CH Interstitial Lung Disease  
*Charles S. White, M.D.*
- CH Critical Care Thoracic Radiology: What's New in the ICU  
*Robert M. Steiner, M.D., FACR, FACC*
- CH Interesting Thoracic Casse Conference  
*Seth J. Kligerman, M.D.*

## Session 9

- CH Thoracic Trauma in the Emergency Patient  
*Robert M. Steiner, M.D., FACR, FACC*
- CH, CTA Aortic Injuries and Mimics  
*Clint W. Sliker, M.D., FASER*
- CH, CTA Acute Aortic Syndromes: Rupture, Dissection, and Aneurysm  
*Seth J. Kligerman, M.D.*

## Session 10

- C, CTA Basics of Cardiac CTA  
*Eric E. Williamson, M.D.*
- C, CTA Coronary CTA in the ED  
*Seth J. Kligerman, M.D.*
- C, CH, CTA MDCT Evaluation of Acute Chest Pain in the Emergency Room  
*Charles S. White, M.D.*
- C, AI Integration of Deep Learning/AI into Cardiac CTA  
*Melany Atkins, M.D.*

A CME Teaching Activity

# 2021 Classic Lectures in Body Imaging with MR & CT

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