A CME Teaching Activity

2021 Neuroradiology in Clinical Practice

Release Date: February 15, 2021 | 16.75 *AMA PRA Category 1 Credit(s)™*

About This CME Teaching Activity

This accredited continuing education activity is designed to address current topics in neuroimaging and the clinical management of neurological disease. Emphasis is placed on the role of imaging in pathology and trauma affecting the central nervous system. Imaging manifestation of disease, optimizing imaging techniques and the recent advanced applications of artificial intelligence (AI) and PET/MRI, traumatic brain injury and stroke imaging updates are also addressed.

Target Audience

This program is designed for practicing radiologists, neurologists and neurosurgeons that interpret or rely on imaging studies for the evaluation of neurological disorders.

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)™*. 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)™
for this activity may be claimed until February 14, 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 the advances in neuroimaging applications and interpretation.
- Evaluate intracranial tumors, vascular abnormalities and traumatic brain injury.
- Discuss the clinical and imaging manifestations of neurodegenerative disease.
- Recognize image characteristics of common neurovascular disease processes.
- Utilize CTA and MRA in neuroradiology applications.
- Describe the changing role of imaging in the management of spine disease.
- Explain the clinical impact of artificial intelligence in neuroradiology.

No special educational preparation is required for this CME activity.

Faculty

Wende N. Gibbs, M.D., M.A.
Division of Neuroradiology
Department of Radiology
Senior Associate Consultant, Mayo Clinic
Assistant Professor of Radiology
Mayo Clinic College of Medicine
Phoenix, AZ

Blake A. Johnson, M.D., FACR
National Medical Director
Director of Regenerative Medicine
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Minneapolis, MN

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Jeffrey S. Ross, M.D.
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Department of Radiology
Professor of Radiology, Mayo Clinic College of Medicine
Editor-in-Chief, American Journal of Neuroradiology
Phoenix, AZ

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

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

Max Wintermark, M.D.
Professor of Radiology
Chief of Neuroradiology
Department of Radiology, Neuroradiology Division
Stanford University
Stanford, CA

Program

CT: 7.0 Hours • **MR:** 14.5 Hours • **PET:** 0.75 Hours • **Stroke (ST):** 0.5 Hours • **AI:** 1.75 Hours • **Safety (SF):** 0.75 Hours

SESSION 1

CT, MR, AI	AI in Neuroimaging	*Lawrence N. Tanenbaum, M.D., FACR*
MR	Imaging Cranial Nerves I-VI	*Blake A. Johnson, M.D., FACR*
CT, MR	Suprahyoid Neck: Anatomy and Pathology	*C. Douglas Phillips, M.D., FACR*

SESSION 2

MR	Imaging Cranial Nerves VII-XII	*Blake A. Johnson, M.D., FACR*
CT, MR	Infrahyoid Neck: Approach to Imaging	*C. Douglas Phillips, M.D., FACR*
MR	MR Imaging of Hydrocephalus	*Wende N. Gibbs, M.D., M.A.*

SESSION 3

MR	Recent Advances in Epilepsy Imaging	*J. Pablo Villablanca, M.D., FACR*
MR, PET	PET/MR for Evaluation Neurologic Disease	*Lawrence N. Tanenbaum, M.D., FACR*
CT, MR	Common Neuroradiology Procedures: Indications and Techniques	*Wende N. Gibbs, M.D., M.A.*

SESSION 4

CT	Imaging the Paranasal Sinuses	*C. Douglas Phillips, M.D., FACR*
MR	Imaging of Traumatic Brain Injury	*Max Wintermark, M.D.*

SESSION 5

MR/SF	Contrast Safety: Brain Deposition and Other Issues	*Lawrence N. Tanenbaum, M.D., FACR*
MR	White Matter Disease: Imaging Update	*Blake A. Johnson, M.D., FACR*
CT	Eponymic ENT Diseases	*C. Douglas Phillips, M.D., FACR*

SESSION 6

CT, MR	Spine Emergencies	*Wende N. Gibbs, M.D., M.A.*
CT	CT Imaging in Acute Hemorrhagic Stroke	*J. Pablo Villablanca, M.D., FACR*
CT, MR	Imaging of Carotid Artery Disease	*Max Wintermark, M.D.*

Program

SESSION 7

CT, MR, AI	AI in Spine and Image Reconstruction *Lawrence N. Tanenbaum, M.D., FACR*
MR	Perfusion Imaging *Max Wintermark, M.D.*
MR	Spine Tumors: What the Surgeon Wants to Know *Wende N. Gibbs, M.D., M.A.*

SESSION 8

CT, MR	Multimodal CT and MR in the Evaluation of Non-Aneurysmal, Non-Traumatic Intracranial Hemorrhage *J. Pablo Villablanca, M.D., FACR*
MR	Spine Infection and Inflammation *Jeffrey S. Ross, M.D.*
MR	Spontaneous Intracranial Hypotension: Diagnosis and Treatment of Spinal Leaks *Jeffrey S. Ross, M.D.*

SESSION 9

MR	Post Operative Spine Imaging *Jeffrey S. Ross, M.D.*
MR, AI	AI and Spine Imaging: Clinical Applications *J. Pablo Villablanca, M.D., FACR*
CT, MR, ST	Updates in Stroke Imaging *Max Wintermark, M.D.*
MR	Case Based Spine Review *Jeffrey S. Ross, M.D.*

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