

Neuroradiology in Clinical Practice

Including Stroke Imaging And Intervention

Designated for SA-CME

19.25 AMA PRA Category 1 Credit(s)™ Release Date: January 15, 2020



About This CME Teaching Activity

This CME Activity is designed to address current topics in neuroimaging and 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 will be discussed. Additionally, the latest in stroke imaging including triage, management and treatment is 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 19.25 AMA PRA Category 1 $Credit(s)^{TM}$. 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 January 14, 2023.

This CME activity was planned and produced by Educational Symposia, a leader in continuing medical 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.
- Apply state of the art stroke imaging protocols to clinical practice.
- Discuss the role of radiology in the treatment of acute stroke.

No special educational preparation is required for this CME activity.

Faculty

Jalal B. Andre, M.D.

Director of Neurological MRI, Harborview Medical Center Associate Member, Head Injury Prevention and Research Center Associate Medical Staff of Seattle Cancer Care Alliance Associate Professor of Radiology University of Washington Seattle, WA

Allan L. Brook, M.D., FSIR

Professor of Radiology & Neurosurgery Albert Einstein College of Medicine Director, Interventional Neuroradiology Montefiore Medical Center Bronx, NY

Boris Chulpayev, M.D.

Assistant Medical Director: Neurology Section Chief: Neurology White Plains Hospital White Plains, NY

Kathleen R. Fink, M.D.

Assistant Professor, Neuroradiology University of Washington Seattle, WA

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

Medical Director Center for Diagnostic Imaging Minneapolis, MN

Jeffrey S. Ross, M.D.

Consultant, Mayo Clinic Arizona Neuroradiology Division Department of Radiology Professor of Radiology, Mayo Clinic College of Medicine Editor-in-Chief, American Journal of Neuroradiology

Howard A. Rowley, M.D.

Professor of Radiology, Neurology and Neurosurgery Joseph Sackett Professor of Radiology Chief of Neuro MRI University of Wisconsin Madison, WI

James G. Smirniotopoulos, M.D.

Professorial Lecturer (Radiology) George Washington University Washington DC Chief Editor, MedPix® National Library of Medicine Bethesda, MD

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

CT: 14.75 Hours • MR: 15.5 Hours •

SESSION 1

Program

CT/MR Al in Medical Imaging

Lawrence N. Tanenbaum, M.D.,

CT/MR Differential Diagnosis

of Basal Ganglia **Abnormalities**

Blake A. Johnson, M.D., FACR

MR Imaging White Matter

Disease

Jeffrey S. Ross, M.D.

SESSION 2

CT/MR/PET **Imaging**

Neurodegenerative

Disorders

Wende N. Gibbs, M.D., M.A.

MR/PET PET/MR in Neurologic

Disease

Lawrence N. Tanenbaum, M.D., FACR

CT/MR Imaging the

Phakomatoses

James G. Smirniotopoulos, M.D.

SESSION 3

CT/MR Gliomas and Tumor

Markers

James G. Smirniotopoulos, M.D.

CT/MR/PET MR Imaging of Skull Base

Pathology

Wende N. Gibbs, M.D., M.A.

MR **CNS Trauma:**

Lessons from MRI

James G. Smirniotopoulos, M.D.

SESSION 4

CT/MR Imaging in Headache

Jeffrey S. Ross, M.D.

CT/MR Imaging the "Found Down"

Patient

James G. Smirniotopoulos, M.D.

SESSION 5

MR Degenerative Disc

Disease: Pathophysiology

and Nomenclature *Jeffrey S. Ross, M.D.*

IR/CT/MR The Radiologist's Role in

Neck and Back Pain

Management

Blake A. Johnson, M.D., FACR

MR/PET Advanced Imaging of

the Spine

Lawrence N. Tanenbaum, M.D., FACR

SESSION 6

CT/MR Spine Infection and Mimics

Wende N. Gibbs, M.D., M.A.

Regenerative Medicine: A Primer for Radiologists

Blake A. Johnson, M.D., FACR

CT/MR Spine Oncology:

Imaging and Interpretation

Wende N. Gibbs, M.D., M.A.

MR MRI of Spine Trauma

Jeffrey S. Ross, M.D.

STROKE IMAGING AND INTERVENTION

SESSION 7

CT/MR/ST Acute Stroke Imaging

and Therapy: Neuroradiology in the Leadership Role

Allan L. Brook, M.D., FSIR

CT/ST CT of Acute Stroke

Lawrence N. Tanenbaum, M.D., FACR

CT/MR/ST Stroke Neurology: Differentials

and Clinical Diagnosis

Boris Chulpayev, M.D.

CT/MR/ST Brain Aneurysms:

Basics and Treatment

Options

Allan L. Brook, M.D., FSIR

SESSION 8

CT/ST Stroke Imaging Update

Howard A. Rowley

CT/MR/ST Imaging of Acute Hemorrhage

and Ischemic Stroke Kathleen R. Fink, M.D.

SESSION 9

CT/MR/ST/IR Stroke Thrombectomy:

Data, Literature, and Guidelines Review Allan L. Brook, M.D., FSIR

CT/MR/ST Rapid Protocols in

Acute Ischemic Stroke

Jalal B. Andre, M.D.

CT/ST/IR Practical Tips for Opening

the Occlusion: How I Do It

Allan L. Brook, M.D., FSIR

SESSION 10

MR/ST MR Angiography Techniques:

Imaging Options and Physics

Jalal B. Andre, M.D.

CT/ST Emergency Stroke Triage

Jalal B. Andre, M.D.

ST Stroke Epidemiology and

Risk Factor Management

Boris Chulpayev, M.D.

SESSION 11

CT/MR/ST Evaluation of Vasospasm

and Delayed Ischemia

Ialal B. Andre, M.D.

CT/MR/ST/IR Acute Management

of Stroke

Boris Chulpayev, M.D.

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