A CME Teaching Activity

A Multimodality Approach to AI in Diagnostic Imaging

Release Date: August 15, 2020 | *8.25 AMA PRA Category 1 Credit(s)™*

About This CME Teaching Activity

This CME Teaching activity focuses on the fundamentals of Artificial Intelligence (AI) in diagnostic imaging. Expert faculty discuss the basic concepts, clinical applications and implementation of this innovative tool. In addition to the technical aspects of this technology faculty examine the clinical potential and future applications of how AI can be applied to routine clinical practice.

Target Audience

This CME activity is designed to educate diagnostic imaging physicians, who want to learn more about Artificial Intelligence in radiology.

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 8.25 *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 August 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:

- Review the fundamentals of AI.
- Explain how AI is used in image reconstruction.
- Discuss the medicolegal aspects associated with AI.
- Describe the clinical applications and indications of using AI in neuroradiology, spine imaging, breast and musculoskeletal imaging.
- Describe the impact of AI in radiology today and in the future.
- Explain how AI is used to increase efficiency and patient satisfaction in radiology.

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 F. Feller, M.D.
Medical Director
Desert Medical Imaging
Indian Wells, CA
Assistant Clinical Professor of Radiology
Loma Linda University School of Medicine
Loma Linda, 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
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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
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Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM
Chief, Breast Imaging Service
Larry Norton Endowed Chair, Memorial Sloan Kettering Cancer Center
Professor of Radiology, Weill Cornell Medical Center
Breast and Imaging Center
New York, NY

Eliot L. Siegel, M.D., FACR, FSIIM
Chief of Radiology and Nuclear Medicine
VA Maryland Health Care System
Professor and Vice Chairman Information Systems
University of Maryland School of Medicine
Department of Diagnostic Radiology
Adjunct Professor Computer Science
University of Maryland Baltimore County
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Lawrence N. Tanenbaum, M.D., FACR
Vice President and Chief Technology Officer
Director of CT, MR and Advanced Imaging
Medical Director East Region
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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

Alyssa T. Watanabe, M.D.
Associate Clinical Professor of Radiology
University of Southern California, Keck School of Medicine
Los Angeles, CA

Program

Session 1

Deep Learning: What You Need to Know as a Radiologist Today
Elliot K. Fishman, M.D., FACR

AI Machine Learning Introduction
Eliot L. Siegel, M.D., FACR, FSIIM

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

AI/Machine Learning Hype, Hope, and Reality
Eliot L. Siegel, M.D., FACR, FSIIM

Session 2

Efficiency and Quality Survival with Patient Centric Imaging
Lawrence N. Tanenbaum, M.D., FACR

Medicolegal Aspects Associated with the Era of Digital Imaging, Personalized Medicine
Eliot L. Siegel, M.D. FACR, FSIIM

AI in Medical Imaging
Thomas M. Grist, M.D., FACR

Session 3

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

Augmented Reality/ Virtual Reality Applications in Diagnostic Imaging
Eliot L. Siegel, M.D. FACR, FSIIM

AI in Spine Imaging
Lawrence N. Tanenbaum, M.D., FACR

AI in Spine Imaging: Clinical Applications
J. Pablo Villablanca, M.D., FACR

Session 4

Artificial Intelligence in Cardiac Imaging
Melany B. Atkins, M.D.

Use of AI in Breast Imaging
Alyssa T. Watanabe, M.D.

Advancement in Breast MRI: What is on the Horizon
Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM

Automated MR Imaging of the Musculoskeletal System
John F. Feller, M.D.

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