

## A CME Teaching Activity

William G. Bradley, Jr., M.D., Ph.D., FACR Presents

# MRI: From Physics Through Clinical Applications

**Release Date: February 1, 2016**

### About This CME Teaching Activity

This is a comprehensive review of MR Physics and image interpretation in all organ systems: Neuro, Body, MSK, Pediatrics, Cardiac and Breast. The lecture-workshops emphasize key findings, differential diagnosis and optimizing MR techniques at 1.5T and 3T. The course is appropriate for radiologists with very little knowledge of MRI as well as those with considerable experience in MRI. MR safety issues, such as, nephrogenic systemic fibrosis, will also be discussed.

### Target Audience

This course is intended for radiologists and other imaging physicians as well as registered radiologist assistants interested in advancing their knowledge of MRI.

### Scientific Sponsor

Educational Symposia

### Educational Objectives

At the completion of this CME teaching activity, you should be able to:

- Describe the expanding uses for MRI in assessing pathology of the different organ systems.
- Recognize the specific advantages (and limitations) of the various MR techniques.
- Develop differential diagnoses based on imaging findings.
- Identify the advantages and disadvantages of MRI compared to CT and other imaging techniques.

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

### 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 33.5 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

All activity participants are required to pass a written or online test with a minimum score of 70% 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 January 31, 2019.**

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.

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## Program

### Session 1

Fundamentals of Interpretation

*William G. Bradley, Jr., M.D., Ph.D., FACR*

Determinants of T1 and T2

*William G. Bradley, Jr., M.D., Ph.D., FACR*

Flow Phenomena - *continued on session 2*

*William G. Bradley, Jr., M.D., Ph.D., FACR*

### Session 2

Flow Phenomena - *continued from session 1*

*William G. Bradley, Jr., M.D., Ph.D., FACR*

MRA

*William G. Bradley, Jr., M.D., Ph.D., FACR*

Knee: Meniscus

*Mini N. Pathria, M.D.*

### Session 3

Pelvis: Tendons

*Mini N. Pathria, M.D.*

Shoulder: Rotator Cuff

*Mini N. Pathria, M.D.*

Ankle: Tendons - *continued on session 4*

*Mini N. Pathria, M.D.*

### Session 4

Ankle: Tendons - *continued from session 3*

*Mini N. Pathria, M.D.*

Hemorrhage

*William G. Bradley, Jr., M.D., Ph.D., FACR*

Spectroscopy - *continued on session 5*

*Steven G. Imbesi, M.D.*

### Session 5

Spectroscopy - *continued from session 4*

*Steven G. Imbesi, M.D.*

Physics - *continued on session 6*

*Robert A. Bell, Ph.D.*

### Session 6

Physics - *continued from session 5*

*Robert A. Bell, Ph.D.*

Technology

*Robert A. Bell, Ph.D.*

### Session 7

Economics

*Robert A. Bell, Ph.D.*

K-space & Parallel Imaging

*William G. Bradley, Jr., M.D., Ph.D., FACR*

Image Optimization - *continued on session 8*

*William G. Bradley, Jr., M.D., Ph.D., FACR*

### Session 8

Image Optimization - *continued from session 7*

*William G. Bradley, Jr., M.D., Ph.D., FACR*

Hydrocephalus

*William G. Bradley, Jr., M.D., Ph.D., FACR*

### Session 9

Tumors of Temporal Bone and  
Base of the Skull

*Mahmood F. Mafee, M.D., FACR*

Nasopharynx and  
Parapharyngeal Space

*Mahmood F. Mafee, M.D., FACR*

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## Program

### Session 10

Degenerative Spine

*Roland R. Lee, M.D., FACR*

Postoperative Spine

*Roland R. Lee, M.D., FACR*

Nerve Entrapment - Part 1 -

*continued on session 11*

*Tudor Hughes, M.D., FRCR*

### Session 11

Nerve Entrapment - Part 1 -

*continued from session 10*

*Tudor Hughes, M.D., FRCR*

Nerve Entrapment - Part 2

*Tudor Hughes, M.D., FRCR*

Brainstem - *continued on session 12*

*William G. Bradley, Jr., M.D., Ph.D., FACR*

### Session 12

Brainstem - *continued from session 11*

*William G. Bradley, Jr., M.D., Ph.D., FACR*

Periventricular Region

*William G. Bradley, Jr., M.D., Ph.D., FACR*

Cranial Nerves - *continued on session 13*

*John F. Healy, M.D., FACR*

### Session 13

Cranial Nerves - *continued from session 12*

*John F. Healy, M.D., FACR*

Tumor Spread

*John F. Healy, M.D., FACR*

Breast

*Haydee Ojeda-Fournier, M.D.*

### Session 14

Cardiac

*Eric Goodman, M.D.*

Prostate

*Robert F. Mattrey, M.D.*

### Session 15

Stroke

*William G. Bradley, Jr., M.D., Ph.D., FACR*

EPI Diffusion and Perfusion

*William G. Bradley, Jr., M.D., Ph.D., FACR*

MR Over the Next Decade:

Quo Vadis? - *continued on session 16*

*William G. Bradley, Jr., M.D., Ph.D., FACR*

### Session 16

MR Over the Next Decade:

Quo Vadis? - *continued from session 15*

*William G. Bradley, Jr., M.D., Ph.D., FACR*

Pediatric Neuro MRI

*Rosalind B. Dietrich, M.D., FACR*

Internal Derangement Cases with

Arthroscopic Correlation -

*continued on session 17*

*Eric Chang, M.D.*

### Session 17

Internal Derangement Cases with

Arthroscopic Correlation -

*continued from session 16*

*Eric Chang, M.D.*

Imaging of the Female Pelvis

*Michele Brown, M.D.*

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