JOIN US IN COLORADO
OR VIA WEBCAST

19th Annual | Vail 2019:
MR & CT Advanced Imaging and Artificial Intelligence
February 3 – 8, 2019 • Vail Marriott Mountain Resort & Spa • Vail, CO
20.0 AMA PRA Category 1 Credit(s)TM

The 7th | Snowmass 2019:
Hot Topics in Radiology: Advanced Applications and Artificial Intelligence
February 10 – 15, 2019 • The Westin Snowmass Resort • Snowmass, CO
17.5 AMA PRA Category 1 Credit(s)TM
About The Meeting
This symposium provides a cutting-edge approach to the clinical applications of MRI and CT with a primer in machine learning and artificial intelligence technology. A wide range of topics review basic to advanced clinical applications as well as integrating new innovative technologies into your clinical practice. Faculty share tips and techniques used to overcome challenges associated when adapting newer technologies into clinical practice. Lectures with integrated workstation case reviews demonstrate modern image display and basic post processing applications. Emphasis of this meeting is on the practical and clinical uses of newer technologies and adapting them into your clinical practice. Faculty members have been selected for their teaching ability, as well as their expertise.

Integrated Workstation Case Reviews will be presented using Vital Images advanced visualization software.

Target Audience
This CME activity is primarily intended and designed to educate diagnostic imaging physicians who perform and interpret MRI and CT examinations. It should also be useful in educating referring physicians who order MRI and CT procedures, as well as radiologic technologists.

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 live activity for a maximum of 20.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Technologists: This program has been submitted to the ASRT. The number of A CE credits will be available approximately 30 days prior to the meeting. Please visit www.edusymp.com or call (813) 806-1000 regarding the availability of Category A CE credit.

Self-Assessment Modules (SAMs): Educational Symposia has been granted Deemed Status by the American Board of Radiology (ABR). This allows Educational Symposia to develop and implement SAMs that satisfy ABR Part II MOC requirements.

Educational Objectives
Attendees should, at the completion of this course, be able to:

• Optimize MR and CT imaging protocols.
• Differentiate normal from abnormal MR and CT findings of a variety of disorders.
• More accurately assess neurological disorders using MR and CT.
• Explain the clinical indications and applications of machine learning and artificial intelligence.
• Discuss how innovative technologies are changing and improving the quality of healthcare.

No special educational preparation is required for this CME activity.
**Course Organization**
This program is planned and organized by Educational Symposia, a leader in diagnostic imaging education since 1975.

**Acknowledgement**
Educational Symposia gratefully acknowledges the following corporate supporters:
- Enlitic
- Vital Images, Inc.

Educational Symposia appreciates all our corporate supporters and exhibitors. A complete list of industry supporters will be provided and acknowledged at the meeting.

**Family Meal Plan**
We invite those accompanying you to the meeting to participate in the Family Meal Plan. Sign up for the Family Meal Plan during registration on-site at the meeting registration desk.

**Lift Tickets/Ski Rentals**
Order your deeply discounted Lift Tickets and Ski Rentals at www.edusymp.com or call Professional Travel at (813) 806-1050.

**Cancellations**
Cancellations must be received in writing. A $50 processing fee will be applied to all cancellations. Refunds requested in writing prior to January 5, 2019 will be issued for the amount of tuition paid less the $50 processing fee. No refunds will be made on or after that date.

**Registration Information**
Tuition for live conference includes all course materials, an electronic color course syllabus (printed color syllabus available for $95, advanced purchase only), a welcome reception, daily breakfasts and après-ski breaks Monday through Thursday. Early registration is strongly suggested. There will be a $100 surcharge for anyone registering after January 25, 2019. Minimum and maximum attendance levels have been established for this meeting. If your registration cannot be accepted, you will be issued a full tuition refund.

Tuition for live webcast includes participation for one registrant. Each registrant must sign-in on a separate computer to receive credit. Prior to the meeting we will send you further information about the log in process. We will also send you an electronic color course syllabus via email. If you have any questions or problems logging into the meeting we will have support personnel available at (813) 806-1000. There will be a $100 surcharge for anyone registering after January 25, 2019.

Please note: A minimum number of registrants is required to live webcast this course. If the minimum number is not met by January 5, 2019 the live webcast activity may be cancelled and a full refund issued.

**Webcast Requirements**
Visit the Help Center at www.edusymp.com/site/help to review the computer and internet requirements for viewing live webcast meetings.

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**Vail Marriott Mountain Resort**

**SPACE IS LIMITED - RESERVE TODAY**

Visit www.edusymp.com and search VMRCT19 to visit the accommodations page for additional hotel information.

Call Reservations at: 877-622-3140 and identify yourself as a registrant of “New Advances MRCT” to receive the group discount.

**Group Room Rates Start At ............................................. $392.00/nt.**
**Hotel cut-off date: January 2, 2019**

**Condo Rates Start At (Limited Availability).......................... $575.00/nt.**
**Condo cut-off date: January 2, 2019**

Call Professional Travel for group rate off site condo reservations: (813) 806-1050

**Off site Condo Rates Start At.............................................. $388.00/nt.**
**Condo group rates increase after December 31, 2018**

**Hotel Tax:** 9.8% • **Resort Fee:** $20 Daily

**Room preference:**
King bed/Two double beds (upon availability)- Smoke Free Property

**Registered Guest Valet Parking** is $50 per day. Parking charges are subject to change on an annual basis. These prices are applied on a per car basis and based on a 24 hr. cycle with in/out privileges.

**Deposit Policy:** All hotel reservation requests will require a credit card guarantee to confirm. Full payment of room and tax will be charged on the cut-off date of January 2, 2019.

**Cancellation Policy:** Reservations cancelled after January 2, 2019 will forfeit the deposit for all nights reserved. No-shows are considered guaranteed bookings and will be charged the entire length of stay. Any no-show reservations will be cancelled for all remaining room nights. Early departures will forfeit the remaining room night's room charges. Check in time is: 4:00 PM; check out time is: 11:00 AM.

**Hotel:** 715 West Lionshead Circle  **Phone:** 970-476-4444
**Vail, Colorado 81657**
**Faculty**

**Program Director:**
Lawrence N. Tanenbaum, M.D., FACR

Jan Fritz, M.D., P.D., D.A.B.R.
Assistant Professor of Radiology and Radiological Science
Musculoskeletal Radiology
Johns Hopkins University School of Medicine
Baltimore, MD

Blake A. Johnson, M.D., FACR
Medical Director
Center for Diagnostic Imaging
Minneapolis, MN

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

Neil M. Rofsky, M.D., FACR
Professor and Chairman
Effie and Wofford Cain Distinguished Chair in Diagnostics Imaging
Department of Radiology
UT Southwestern Medical Center
Dallas, TX

Eliot L. Siegel, M.D., FACR, FSIM
Chief of Radiology and Nuclear Medicine
VA Maryland Health Care System
University of Maryland School of Medicine
Department of Diagnostic Radiology
Adjunct Professor Computer Science
University of Maryland Baltimore Country
Adjunct Professor
Biomedical Engineering University of Maryland College Park
Baltimore, MD

Lawrence N. Tanenbaum, M.D., FACR
Vice President and Medical Director East Region
Director of CT, MR and Advanced Imaging
RadNet, Inc.
New York, NY

Bachir Taouli, M.D.
Professor of Radiology
Vice-chair of Translational Research
Director of Body MRI
Department of Cancer Imaging Program
Institute for Translational and Molecular Imaging
New York, NY

Chip Truwt, M.D., FACR
Chief Innovation Officer, Upstream Health Innovations
Professor of Radiology (Emeritus)
University of Minnesota School of Medicine
Minneapolis, MN

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**Program**

**SUNDAY, FEBRUARY 3, 2019**

3:00 – 4:00 PM  Registration

4:00 – 7:00 Super Bowl Party/ Welcome Reception

**MONDAY, FEBRUARY 4, 2019**

7:00 – 7:30 AM  Breakfast for Registrants & Meal Plan Participants

7:30 – 8:10  AI in Healthcare
Lawrence N. Tanenbaum, M.D., FACR

8:10 – 8:50  Approach to Renal Lesion Characterization
Bachir Taouli, M.D.

8:50 – 9:30  Elbow MRI
Jan Fritz, M.D., P.D., D.A.B.R.

9:30 – 9:45  Question and Answer Session
Faculty

9:45  End of Session

4:00 – 4:30 PM  Après Ski Break for Registrants & Meal Plan Participants

4:30 – 5:10  Breast MRI Interpretation
Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM

5:10 – 5:50  New & Proven Techniques for Rapid Musculoskeletal MRI
Jan Fritz, M.D., P.D., D.A.B.R.

5:50 – 6:30  MR Enterography in IBD
Bachir Taouli, M.D.

6:30 – 6:45  Question and Answer Session
Faculty

6:45  End of Session

**TUESDAY, FEBRUARY 5, 2019**

7:00 – 7:30 AM  Breakfast for Registrants & Meal Plan Participants

7:30 – 8:10  MR Contrast Media Safety Update
Lawrence N. Tanenbaum, M.D., FACR

8:10 – 8:45  Multi-Detector CTA of Extremity Trauma - With Workstation Case Review
Jan Fritz, M.D., P.D., D.A.B.R.

8:45 – 9:15  Breast MRI BI-RADS Update
Elizabeth A. Morris, M.D., FACR, FSBI, FISMRM

9:15 – 9:45  HCC and Cholangiocarcinoma
Bachir Taouli, M.D.

9:45  End of Session
<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td><strong>TUESDAY, FEBRUARY 5, 2019 (Continued)</strong></td>
<td><strong>THURSDAY, FEBRUARY 7, 2019</strong></td>
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<tr>
<td>4:00 – 4:30 PM</td>
<td>Après Ski Break for Registrants &amp; Meal Plan Participants</td>
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<tr>
<td>4:30 – 5:00</td>
<td>AI Machine Learning: Introduction</td>
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<tr>
<td>5:00 – 5:30</td>
<td>Metal Artifacts in MRI: Practical Problem Solving</td>
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<td>5:30 – 6:00</td>
<td>High Risk Breast Screening with MRI</td>
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**SAM SESSION**

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<td>9:45</td>
<td>End of Course</td>
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Faculty & topics subject to change.
About The Meeting
This symposium is designed to provide an update on a variety of new cutting-edge developments in diagnostic imaging and intervention. Topics include new techniques and practical applications of MRI and CT with a primer on artificial intelligence and machine learning. Emphasis of this meeting is on the practical clinical uses of new technologies and their impact on the future of radiology practice. Faculty members have been selected for their teaching ability, as well as their expertise.

Target Audience
This CME activity is primarily intended and designed to educate diagnostic imaging physicians who perform and interpret imaging examinations. The content will be beneficial to Neurologists, Emergency Medicine Physicians and General Practitioners who order or integrate imaging information into practice management.

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 live activity for a maximum of 17.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Technologists: This program has been submitted to the ASRT. The number of A CE credits will be available approximately 30 days prior to the meeting. Please visit www.edusymp.com or call (813) 806-1000 regarding the availability of Category A CE credit.

Self-Assessment Modules (SAMs): Educational Symposia has been granted Deemed Status by the American Board of Radiology (ABR). This allows Educational Symposia to develop and implement SAMs that satisfy ABR Part II MOC requirements.

Educational Objectives
Attendees should, at the completion of this course, be able to:

- Discuss new cutting-edge applications of MRI and CT imaging.
- Compare the utility of MRI and CT in the evaluation of various musculoskeletal, neuro and cardiovascular applications.
- Discuss the utility of MRI and CT in the workup of spine disease and intervention.
- Discuss the clinical indications and applications of artificial intelligence and medicine.
- Discuss the impact of artificial intelligence and machine learning in radiology.

No special educational preparation is required for this CME activity.
Course Organization
This program is planned and organized by Educational Symposia, a leader in diagnostic imaging education since 1975.

Acknowledgement
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- Enlitic
- Hitachi Healthcare Americas

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Family Meal Plan
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Lift Tickets/Ski Rentals
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Cancellations
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Registration Information
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Please note: A minimum number of registrants is required to live webcast this course. If the minimum number is not met by January 12, 2019 the live webcast activity may be cancelled and a full refund issued.

Webcast Requirements
Visit the Help Center at www.edusymp.com/site/help to review the computer and internet requirements for viewing live webcast meetings.
**Faculty**

**Program Director:**
Lawrence N. Tanenbaum, M.D., FACP

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

Thomas M. Grist, M.D., FACP
John H. Judd Professor of Radiology,
Medical Physics and Bioengineering
Chairman, Department of Radiology
University of Wisconsin-Madison School of Medicine
and Public Health
Madison, WI

Blake A. Johnson, M.D., FACP
Medical Director
Center for Diagnostic Imaging
Minneapolis, MN

Neil M. Rofsky, M.D., FACP
Professor and Chairman
Effie and Wofford Cain Distinguished Chair in Diagnostic Imaging
Department of Radiology
UT Southwestern Medical Center
Dallas, TX

Eliot L. Siegel, M.D., FACP, FSIM
Chief of Radiology and Nuclear Medicine
VA Maryland Health Care System
Vice Chairman Information Systems
University of Maryland School of Medicine
Department of Diagnostic Radiology
Adjunct Professor Computer Science
University of Maryland Baltimore Country
Adjunct Professor
Biomedical Engineering University of Maryland College Park
Baltimore, MD

Lawrence N. Tanenbaum, M.D., FACP
Vice President and Medical Director East Region
Director of CT, MR and Advanced Imaging
RadNet, Inc.
New York, NY

J. Pablo Villablanca, M.D., FACP
Professor of Diagnostic Neuroradiology
Medical Director of MRI
Director, Interventional Spine Service
David Geffen School of Medicine at UCLA
Los Angeles, CA

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

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**Program**

**SUNDAY, FEBRUARY 10, 2019**
5:00 - 6:00 PM  Registration and Welcome Reception

**MONDAY, FEBRUARY 11, 2019**
6:15 – 6:45 AM  Breakfast for Registrants & Meal Plan Participants
6:45 – 7:25  Introduction to AI in Healthcare and Imaging
Lawrence N. Tanenbaum, M.D., FACP
7:25 – 8:05  Traumatic Head Injury
Blake A. Johnson, M.D., FACP
8:05 – 8:45  Multimodal CT and MR in the Evaluation of Non-Aneurysmal, Nontraumatic Intracranial Hemorrhage
J. Pablo Villablanca, M.D., FACP
8:45 – 9:00  Coffee Break for Registrants
9:00 – 9:35  AI Machine Learning: Hype, Hope and Reality
Eliot L. Siegel, M.D., FACP, FSIM
Neil M. Rofsky, M.D., FACP
10:15 – 10:30  Question and Answer Session
Faculty
10:30  End of Session

**TUESDAY, FEBRUARY 12, 2019**
6:15 – 6:45 AM  Breakfast for Registrants & Meal Plan Participants
6:45 – 7:25  Quality, Efficiency and Survival with Patient Centric Imaging
Lawrence N. Tanenbaum, M.D., FACP
Neil M. Rofsky, M.D., FACP
8:05 – 8:45  Radiology Reading Room Design: Saving Body and Mind
Eliot L. Siegel, M.D., FACP, FSIM
8:45 – 9:00  Coffee Break for Registrants
9:00 – 9:35  Advanced Imaging for Evaluation of Cervical Spondylotic Myelopathy
J. Pablo Villablanca, M.D., FACP
9:35 – 10:15  Medicolegal Aspects of Digital Imaging
Eliot L. Siegel, M.D., FACP, FSIM
10:15 – 10:30  Question and Answer Session
Faculty
10:30  End of Session
**WEDNESDAY, FEBRUARY 13, 2019**

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<thead>
<tr>
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<tr>
<td>6:15 – 6:45 AM</td>
<td>Breakfast forRegistrants &amp; Meal Plan Participants</td>
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<tr>
<td>6:45 – 7:25</td>
<td>MR Safety Update</td>
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<td></td>
<td>Lawrence N. Tanenbaum, M.D., FACR</td>
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<td>7:25 – 8:05</td>
<td>Intracranial Tumors and Tumor Mimics</td>
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<td>Blake A. Johnson, M.D., FACR</td>
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<tr>
<td>8:05 – 8:45</td>
<td>Coaching as a Leadership Style</td>
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<td>Neil M. Rofsky, M.D., FACR</td>
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**8:45 – 9:00**  **Coffee Break for Registrants**

**6:45 – 6:40**

**THURSDAY, FEBRUARY 14, 2019**

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<td>Breakfast for Registrants &amp; Meal Plan Participants</td>
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<tr>
<td>6:45 – 7:25</td>
<td>Basics of Cardiac CTA</td>
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<td>Eric E. Williamson, M.D.</td>
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<td>7:25 – 8:00</td>
<td>MR Venography</td>
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<td>Thomas M. Grist, M.D., FACR</td>
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<td>8:05 – 9:00</td>
<td>Non-Contrast MRA: Back to the Future</td>
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<td>Thomas M. Grist, M.D., FACR</td>
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<tr>
<td>9:35 – 10:15</td>
<td>Advances in Ultra High-Field MRI: Clinical Opportunities and Challenges</td>
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<td>J. Pablo Villablanca, M.D., FACR</td>
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<tr>
<td>10:15 – 10:30</td>
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<td>Faculty</td>
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**10:30**  **End of Session**

**FRIDAY, FEBRUARY 15, 2019**

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<td>Thomas M. Grist, M.D., FACR</td>
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<tr>
<td>7:25 – 8:05</td>
<td>MR of Pulmonary Embolic Disease</td>
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<td>Thomas M. Grist, M.D., FACR</td>
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<tr>
<td>8:05 – 9:00</td>
<td>Contrasting Induced Nephropathy</td>
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<td>Eric E. Williamson, M.D.</td>
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**8:45 – 9:00**  **Coffee Break for Registrants**

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<tr>
<td>9:00 – 9:40</td>
<td>MRI of Myocardial Ischemic Disease</td>
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<td>Eric E. Williamson, M.D.</td>
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<tr>
<td>9:40 – 10:15</td>
<td>MRI of the Hip</td>
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<td>John F. Feller, M.D.</td>
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**10:30**  **End of Session**

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**Faculty & topics subject to change.**
### Meeting Registration Form:

**19th Annual | Vail 2019: MR & CT Advanced Imaging**  
February 3 – 8, 2019 • Vail Marriott Mountain Resort & Spa • Vail, CO

**The 7th | Snowmass 2019: Hot Topics in Radiology**  
February 10 – 15, 2019 • The Westin Snowmass Resort • Snowmass, CO

**50% OFF** FULL TUITION FOR FELLOWS & RESIDENTS • 1ST 10 ACTIVE DUTY MILITARY PERSONNEL FREE

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**REGISTER ONLINE: WWW.EDUSYMP.COM**

**TUITION: LIVE MEETING**  
Check Meeting Registration below:  
INCLUDES ELECTRONIC COLOR SYLLABUS

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<td>Physicians</td>
<td>On or Before 1/25/19</td>
<td>$1,150</td>
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<tr>
<td>Scientists</td>
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<tr>
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<td>Hot Topics in Radiology</td>
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