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*11<sup>th</sup> Annual*

# Neuroradiology in Clinical Practice 2018

**October 11 – 13, 2018**

Aria® Resort and Casino • Las Vegas, Nevada

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18.5 AMA PRA Category 1 Credit(s)<sup>™</sup>

**SAM session is available at this meeting**

**ESI** Educational  
Symposia



## ABOUT THE MEETING

This course 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 will be discussed.

## 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. Radiologic technologists who perform these types of procedures will also find the program beneficial.

## 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 18.5 *AMA PRA Category 1 Credit(s)<sup>TM</sup>*. 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](http://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 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.
- Apply state of the art imaging protocols to evaluate epilepsy to clinical practice.
- 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.

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

## COURSE ORGANIZATION

This program is planned and organized by Educational Symposia, a leader in continuing medical education since 1975.

## CANCELLATIONS

Cancellations must be received in writing. A \$50 processing fee will be applied to all cancellations. Refunds requested in writing prior to September 14, 2018 will be issued for the amount of tuition paid less the \$50 processing fee. No refunds will be made on or after this date.

## ACKNOWLEDGEMENT

Educational Symposia gratefully acknowledges the following corporate supporters and exhibitors:

CorTechs, Labs

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MR Instruments, Inc

A complete list of industry supporters will be provided and acknowledged at the meeting.

## REGISTRATION INFORMATION

**Tuition for live conference** includes all course materials, an electronic color course syllabus (printed color syllabus available for \$95, advanced purchase only), daily continental breakfasts and coffee breaks. Early registration is strongly suggested. There will be a \$100 surcharge for anyone registering after **October 2, 2018**. 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 **October 2, 2018**.

**Please note:** A minimum number of registrants is required to live webcast this course. If the minimum number is not met by **September 14, 2018** the live webcast activity may be cancelled and a full refund issued.

## WEBCAST REQUIREMENTS

Visit the Help Center at [www.edusymp.com/site/help](http://www.edusymp.com/site/help) to review the computer and internet requirements for viewing live webcast meetings.

## 4 EASY WAYS TO REGISTER

We Accept



**INTERNET**  
[www.edusymp.com](http://www.edusymp.com)

**MAIL** Check payable to:  
Educational Symposia  
5620 West Sligh Avenue  
Tampa, Florida 33634-4490

**FAX**  
(813) 806-1001

**PHONE**  
(813) 806-1000

Reduce your mail clutter or just add email announcements. Please visit the "Mailing List" section of our website at [www.edusymp.com](http://www.edusymp.com).

**Disclaimer:** Educational Symposia (ESI) as planner and presenter of this meeting, and Professional Travel as the official travel agency for this meeting, claim no liability for the acts of any suppliers or the safety of any attendees while in transit to, from, or during this event or any optional activities. The total amount of liability, if any, for the meeting organizers is limited to a refund of the registration fee, and Professional Travel's responsibility is limited to that of an agent.



**Special Note for the Disabled:** Educational Symposia wishes to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently from other individuals because of the absence of auxiliary aids and services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act, please contact our office at (813) 806-1000.

## Program Director:

Blake A. Johnson, M.D., FACR

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### Lawrence D. Dickinson, M.D.

*Neurological Surgeon  
Pacific Brain & Spine Medical Group  
Castro Valley, CA*

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

*Assistant Professor, Neuroradiology  
Director of Spine Imaging and Intervention  
University of Southern California, Keck School of Medicine  
Los Angeles, CA*

### Blake A. Johnson, M.D., FACR

*Medical Director  
Center for Diagnostic Imaging  
Minneapolis, MN*

### Timothy M. Shepherd, M.D., Ph.D.

*Assistant Professor of Neuroradiology  
Director of Brain Mapping  
Department of Radiology  
New York University  
New York, NY*

### 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*

### 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*

### Gregg H. Zoarski, M.D.

*NeuroInterventional Surgery and Neuroradiology  
Christiana Care Health System  
Newark, DE*

**If you receive more than one brochure,  
please pass the extra along to a colleague.**

# PROGRAM

## Thursday, October 11, 2018

<b>7:00 – 8:00 AM</b>	<b>Registration and Continental Breakfast for Registrants</b>
8:00 – 8:10	Welcome and Morning Announcements <i>Blake A. Johnson, M.D., FACR</i>
8:10 – 8:50	AI in Healthcare <i>Lawrence N. Tanenbaum, M.D., FACR</i>
8:50 – 9:30	Skull Base Pathology Using CT & MR <i>J. Pablo Villablanca, M.D., FACR</i>
9:30 – 9:45	Question and Answer Session <i>Faculty</i>
<b>9:45 – 10:00</b>	<b>Coffee Break for Registrants</b>
10:00 – 10:40	Cranial Nerves I - VI <i>Blake A. Johnson, M.D., FACR</i>
10:40 – 11:20	CT and MR of Sellar and Parasellar Regions <i>J. Pablo Villablanca, M.D., FACR</i>
11:20 – 12:00 PM	Imaging Cranial Nerves VII-XII <i>Blake A. Johnson, M.D., FACR</i>
12:00 – 12:15	Question and Answer Session <i>Faculty</i>
<b>12:15 – 1:30</b>	<b>Lunch on Your Own</b>

## Thursday, October 11, 2018 (Continued)

1:30 – 2:10	Quality, Efficiency and Survival with Patient Centric Imaging <i>Lawrence N. Tanenbaum, M.D., FACR</i>
2:10 – 2:50	Dementia: Conventional and Advanced Imaging <i>Wende N. Gibbs, M.D., M.A.</i>
2:50 – 3:30	Sports Concussion and Chronic Traumatic Encephalopathy <i>Lawrence D. Dickinson, M.D.</i>
<b>3:30 – 3:45</b>	<b>Coffee Break for Registrants</b>
3:45 – 4:20	Advanced Imaging in Stroke <i>Lawrence N. Tanenbaum, M.D., FACR</i>
4:20 – 5:00	Imaging Criteria for Stroke Intervention in 2018 <i>Gregg H. Zoarski, M.D.</i>
5:00 – 5:30	Surgical Management of Intracerebral Hemorrhage <i>Lawrence D. Dickinson, M.D.</i>
5:30 – 5:45	Question and Answer Session <i>Faculty</i>
<b>5:45</b>	<b>End of Session</b>

Friday, October 12, 2018

7:30 – 8:00 AM	Continental Breakfast for Registrants
8:00 – 8:40	MRI of Spine Emergencies <i>Wende N. Gibbs, M.D., M.A.</i>
8:40 – 9:10	Spinal Pain Interventions: Indications & Techniques <i>Gregg H. Zoarski, M.D.</i>
9:10 – 9:50	Time-Efficient Expert Search Patterns for Epilepsy <i>Timothy M. Shepherd, M.D., Ph.D.</i>
9:50 – 10:00	Question and Answer Session <i>Faculty</i>
10:00 – 10:15	Coffee Break for Registrants
SAM SESSION	
10:15 – 10:55	Infectious and Inflammatory Disorders of the Spine <i>Wende N. Gibbs, M.D., M.A.</i>
10:55 – 11:35	Value Added with Peripheral Nerve Imaging <i>J. Pablo Villablanca, M.D., FACR</i>
11:35 – 12:15 PM	Spine Tumors: What the Surgeon Wants to Know <i>Wende N. Gibbs, M.D., M.A.</i>
12:15 – 12:30	Question and Answer Session <i>Faculty</i>
12:30 – 1:30	Lunch on Your Own
1:30 – 2:10	Advanced Imaging of CNS Neoplasms: Characterization and Surveillance <i>Lawrence N. Tanenbaum, M.D., FACR</i>
2:10 – 2:50	Brain Mapping For Private Practice Radiology <i>Timothy M. Shepherd, M.D., Ph.D.</i>
2:50 – 3:30	Imaging Advances in Surgical Resection of Neoplasms <i>Lawrence D. Dickinson, M.D.</i>
3:30 – 3:45	Question and Answer Session <i>Faculty</i>
3:45	End of Session

Saturday, October 13, 2018

7:30 – 8:00 AM	Continental Breakfast for Registrants
8:00 – 8:40	Imaging Sinovenous Thrombosis <i>Gregg H. Zoarski, M.D.</i>
8:40 – 9:20	Misses and Misinterpretations in Multiple Sclerosis MRI <i>Timothy M. Shepherd, M.D., Ph.D.</i>
9:20 – 9:50	CT and MRI of CNS Infections <i>J. Pablo Villablanca, M.D., FACR</i>
9:50 – 10:00	Question and Answer Session <i>Faculty</i>
10:00 – 10:15	Coffee Break for Registrants
10:15 – 10:55	Avoiding Diagnostic Pitfalls in Neuroimaging <i>Blake A. Johnson, M.D., FACR</i>
10:55 – 11:30	Cervical Vascular Imaging <i>Gregg H. Zoarski, M.D.</i>
11:30 – 12:00 PM	PET/MRI Will Change Your MRI Practice <i>Timothy M. Shepherd, M.D., Ph.D.</i>
12:00 – 12:15	Question and Answer Session <i>Faculty</i>
12:15	End of Program

# Aria® Resort & Casino

## SPACE IS LIMITED - RESERVE TODAY:

Visit [edusymp.com](http://edusymp.com) and search **NRCP18** to visit the accommodations page for additional hotel information.

Call Reservations at: (866) 359-7757 and identify that you are with "Fetal Echocardiography/Neuroradiology Symposia" to receive the group discount.

### Group Room Rates Start at..... \$212/nt. (single/double occupancy)

Cost for additional person over double occupancy is \$35 for 3rd and 4th person.

### ROOM PREFERENCE:

King bed/Two queen beds – Smoking/Non-smoking

**HOTEL CUT-OFF DATE:** September 10, 2018

**HOTEL TAX:** 13.38%

**RESORT FEE:** \$39.00 per room, per day applies.



**DEPOSIT POLICY:** One (1) night's room rate plus resort fee and tax will be charged at time of reservation.

**CANCELLATION POLICY:** All cancellations, arrival and departure date changes must be made 72 hours or more prior to scheduled arrival date/ time to avoid penalties. Check in time is: 3:00 PM; Check out time is: 11:00 AM.

**HOTEL:** 3730 Las Vegas Blvd  
Las Vegas, Nevada 89109

**PHONE:** (702) 590-7111

## Meeting Registration Form:

**11<sup>th</sup> Annual Neuroradiology in Clinical Practice 2018**  
October 11 – 13, 2018 • Aria® Resort and Casino • Las Vegas, Nevada

**NRCP18**

### REGISTER ONLINE: [WWW.EDUSYMP.COM](http://WWW.EDUSYMP.COM)

Attendance is limited; therefore,  
early registration is strongly suggested.

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### TUITION: LIVE MEETING

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### TUITION: LIVE WEBCAST

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*\*MUST ENCLOSE OR FAX LETTER FROM YOUR DIRECTOR CERTIFYING STATUS.*

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