



Inova Office of CME
8110 Gatehouse Road
Falls Church, VA 22042

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Inova Neuroscience
and Spine Institute
presents:

2019 FACULTY

Mary E. Case, MD

Professor of Pathology Anatomic,
Neuropathology, and Forensic Pathology,
Saint Louis University, School of Medicine

Gregory N. Fuller, MD, PhD

Professor and Chief Neuropathologist,
The University of Texas M. D. Anderson
Cancer Center, Houston, Texas

Kymberly A. Gyure, MD

Vice Chair and Director of Anatomic Pathology,
Allegheny General Hospital

Brian Harding, MD

Professor of Pathology and Laboratory
Medicine, Children's Hospital of Philadelphia,
University of Pennsylvania Perelman School
of Medicine

Iren Horkayne-Szakaly, MD

Neuropathologist, Joint Pathology Center,
Defense Health Agency

Robert V. Jones, MD

Department of Neuropathology & Ophthalmic
Pathology, Joint Pathology Center,
Defense Health Agency

Alexander R. Judkins, MD

Pathologist-in-Chief, Pathology and
Laboratory Medicine, Vice Chair, Department
of Pathology, USC Associate Professor of
Pathology, USC Keck School of Medicine

Bette Kleinschmidt-DeMasters, MD

Professor and Head of Neuropathology,
School of Medicine, Department of
Pathology, University of Colorado,
Anschutz Medical Campus

James Leiphart, MD, PhD

Vice Chair of Education,
Inova Neuroscience and Spine Institute
Associate Professor, Neurosurgery,
Virginia Commonwealth University

Paul Maurer, MD

Chief of Neurosurgery Surgical Director,
Unity Spine Center

Declan McGuone, MB, BCh, FRCPath

Assistant Professor, Department of Pathology,
Yale School of Medicine

Joseph Parisi, MD

Laboratory Medicine and Pathology,
Mayo Clinic

Mari Perez-Rosendahl, MD

Neuropathologist, Department of Pathology
and Laboratory Medicine, University of
California Irvine Medical Center

Arie Perry, MD

Professor of Pathology and Neurological
Surgery, Director of Neuropathology and
Neuropathology Fellowship Program,
University of California San Francisco (UCSF)

C. Douglas Phillips, MD, FACP

Director of Head and Neck Imaging,
Professor of Radiology, Weill Cornell Medicine
College New York-Presbyterian

Martha Quezado, MD

Deputy Head General Surgical Pathology
Section, Anatomic Pathology Residency Program
Director, Laboratory of Pathology, National
Cancer Institute/National Institutes of Health

John Rees, MD

Assistant Professor of Radiology, Division of
Neuroradiology, Shands Hospital University
of Florida College of Medicine

Glenn D. Sandberg, MD

Forensic Neuropathologist, Harris County
Institute of Forensic Sciences, Houston, Texas

Mariarita Santi, MD, PhD

Professor of Pathology and Laboratory,
Medicine, Children's Hospital of Philadelphia

Robert E. Schmidt, MD, PhD

Professor of Pathology and Immunology,
Director, Division of Neuropathology Medical,
Director, Electron Microscope Facility,
Washington University School of Medicine

Karuna Shekdar, MD

Assistant Professor of Clinical Radiology,
Children's Hospital of Philadelphia

Lt. Col Robert Y. Shih, MD, MC

Chief of Neuroradiology, Walter Reed
National Military Medical Center, Assistant
Professor of Radiology Uniformed Services
University of the Health Sciences

James Smirniotopoulos, MD

Professorial Lecturer, George Washington
University Chief Editor, MedPix®,
National Library of Medicine

Mahtab Tehrani, MD

Neuropathologist, Inova Neuroscience
and Spine Institute

Nilesh Vyas, MD

Medical Director, Endovascular Surgery,
Inova Neuroscience and Spine Institute



Inova Neuroscience
and Spine Institute
presents:



2019 Smirniotopoulos Washington Neuroradiology Review

The conference provides radiologists, neurologists, neurosurgeons and pathologists an update and review of current neuroradiology and neuroimaging topics. Participants can also discuss the latest techniques and concepts with faculty experts. This course is beneficial to neurologists, neurosurgeons, radiologists and pathologists preparing for examinations and MOC exams.

2019 Dr. Kenneth M. Earle Memorial Neuropathology Review

This comprehensive course offers high-level education to individuals who want to expand their knowledge about pathology in neurosciences. The course honors Kenneth M. Earle, MD, who created the continuing education program to help neurologists, neurosurgeons, radiologists and pathologists prepare for their board reviews.

This comprehensive five-day course begins with two-days of Neuroimaging followed by three days of Neuropathology that offers high level education to residents and physician participants who want to expand their knowledge about pathology and radiology in the neurosciences.

The target audience includes physicians, fellows or residents in neurology, neurosurgery, neuroradiology, neuropathology, radiology, or pathology practice wishing an update before taking maintenance of certification (MOC); Neurology and neurosurgery residents preparing for residency in service examinations (RISE) or board examinations; Neuroradiology fellows and pathology residents and fellows; Pathologists who encounter surgical and autopsy neuropathology specimens; Practicing or training forensic pathologists.

Register online at www.inova.org/NPNRCME



Smirniotopoulos Washington Neuroradiology Review

Saturday, January 12, 2019 – Sunday, January 13, 2019
Sheraton Tysons Corner, Vienna, VA

Dr. Kenneth M. Earle Memorial Neuropathology Review

Monday, January 14, 2019 – Wednesday, January 16, 2019
Sheraton Tysons Corner, Vienna, VA



2019

Smirniotopoulos Washington Neuroradiology Review
and Dr. Kenneth M. Earle Memorial Neuropathology Review

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SATURDAY, JANUARY 12, 2019

7:00 a.m.	Registration	
7:30 a.m.	Problem-based Learning: Review Unknown Case Group #1 <i>Light breakfast served</i>	
7:55 a.m.	Welcome & Administrative Opening Remarks	James Smirniotopoulos, MD
8:00 a.m.	Neuroimaging Tools for Differential Diagnosis: Sequences, Edema, Contrast Enhancement	James Smirniotopoulos, MD
8:45 a.m.	Glioma Diagnosis & Tumor Markers — What You Must Know	James Smirniotopoulos, MD
9:30 a.m.	Review Problem-based Learning: Unknown Case Group #1 <i>Break with light refreshments</i>	
9:45 a.m.	Vascular Malformations	Lt. Col Robert Y. Shih, MD, MC
10:30 a.m.	CNS Trauma	James Smirniotopoulos, MD
11:15 a.m.	CNS Infections	John Rees, MD
12:00 p.m.	Case Group #1: Answers and Discussion <i>Working lunch</i>	James Smirniotopoulos, MD
1:15 p.m.	Non-traumatic CNS Emergencies	C. Douglas Phillips, MD, FACR
2:00 p.m.	Sella and Parasellar Masses	C. Douglas Phillips, MD, FACR
2:45 p.m.	Break	
3:00 p.m.	Acute Stroke DX and TX	C. Douglas Phillips, MD, FACR
3:45 p.m.	Extra-axial & Non-Glial Neoplasms	James Smirniotopoulos, MD
4:30 p.m.	Spinal Imaging	Paul Maurer, MD
5:15 p.m.	Daily Summary (Topic Highlights)	James Smirniotopoulos, MD
5:30 p.m.	Adjourn	

SUNDAY, JANUARY 13, 2019

7:30 a.m.	Problem-based Learning: Review Unknown Case Group #2 <i>Light breakfast served</i>	
8:00 a.m.	Intraventricular Masses	Lt. Col Robert Y. Shih, MD, MC
8:45 a.m.	White Matter Diseases	Lt. Col Robert Y. Shih, MD, MC
9:30 a.m.	Anomalies of the CNS: Brain	John Rees, MD
10:15 a.m.	Review Case Based Group #2 <i>Break with light refreshments</i>	
10:30 a.m.	Anomalies of the CNS: Spine	John Rees, MD
11:15 a.m.	Phakomatoses	James Smirniotopoulos, MD
12:00 p.m.	Case Conference #2: Tying it all together	
12:45 p.m.	Adjourn	

MONDAY, JANUARY 14, 2019

7:15 a.m.	Registration/Breakfast	
8:00 a.m.	Welcome and Opening Remarks	
8:15 a.m.	Introduction to Neuropathology	Glenn D. Sandberg, MD
9:00 a.m.	Biomarkers in CNS Tumors	Arie Perry, MD
10:00 a.m.	Break	
10:10 a.m.	Glial Tumors I	Gregory N. Fuller, MD, PhD
11:30 a.m.	Glial Tumors II	Gregory N. Fuller, MD, PhD
12:45 p.m.	Lunch (on your own)	
1:30 p.m.	Non-glial Tumors	Martha Quezado, MD
3:00 p.m.	Pituitary Neoplasms	Arie Perry, MD
4:00 p.m.	Hematopoietic Lesions of the CNS, Germ Cell Tumors and Pineal Region Neoplasms	Mariarita Santi, MD and Karuna Shekdar, MD
5:00 p.m.	Clinical Correlations	Mariarita Santi, MD, PhD and James Leiphart, MD, PhD
6:00 p.m.	Adjourn	

TUESDAY, JANUARY 15, 2019

7:30 a.m.	Breakfast	
8:00 a.m.	Embryonal, Neuronal and Mixed Glioneuronal Neoplasms	Alexander R. Judkins, MD
9:00 a.m.	Correlation of Neuroradiology and Neuropathology	James Smirniotopoulos, MD
11:00 a.m.	CNS Trauma	Mary E. Case, MD
12:00 p.m.	Lunch (on your own)	
1:00 p.m.	Vascular Disease and Ischemic Lesions of the CNS	Declan McGuone, MB, BCh, FRCPath
2:00 p.m.	Pediatric Neuropathy	Brian Harding, MD
4:00 p.m.	Break	
4:15 p.m.	Degenerative Diseases of the CNS	Joseph Parisi, MD
5:45 p.m.	Clinical Correlations	Mahtab Tehrani, MD and Nilesh Vyas, MD
6:45 p.m.	Adjourn	

Register online at www.inova.org/NPNRCME

Due to circumstances that cannot be predicted, the program is subjected to minor adjustments.

WEDNESDAY, JANUARY 16, 2019

7:30 a.m.	Breakfast	
8:00 a.m.	Toxic and Metabolic Diseases of the CNS	Kymberly A. Gyure, MD
8:40 a.m.	Viral Infections and Other Immunodeficiency Disorders of the CNS	Kymberly A. Gyure, MD
9:25 a.m.	Break	
9:30 a.m.	Bacterial Infections of the CNS	Bette Kleinschmidt-DeMasters, MD
10:30 a.m.	Fungal and Parasitic Infections of the CNS	Bette Kleinschmidt-DeMasters, MD
11:30 a.m.	Spinal Cord Pathology	Mari Perez-Rosendahl, MD
12:30 p.m.	Lunch (on your own)	
1:30 p.m.	Demyelinating Disease	Robert E. Schmidt, MD, PhD
3:00 p.m.	Diseases of the Peripheral Nerves	Robert E. Schmidt, MD, PhD
4:00 p.m.	Break	
4:10 p.m.	Basics of Muscle Biopsy Interpretation	Iren Horkayne-Szakaly, MD and Robert V. Jones, MD
5:10 p.m.	Clinical Correlations	Mahtab Tehrani, MD and Nilesh Vyas, MD
6:45 p.m.	Adjourn	

**A FIVE DAY COURSE IN
NEUROPATHOLOGY & NEURORADIOLOGY**

Learning Objectives

- Examine imaging protocols for diagnosis and surveillance of neuropathology
- Apply a pattern-based approach for pathologic diagnosis of neuropathology
- Evaluate intracranial tumors, vascular abnormalities and white matter disease
- Distinguish the differences between the basic histopathologic, histochemical and immunohistochemical disorders of the central and peripheral nervous system
- Identify common MR protocols
- Recognize essential imaging findings
- Provide a focused differential diagnosis for said findings
- Critique new research findings that relate to the molecular pathways to more effectively diagnose diseases of the brain and CNS

Registration

**Early conference registration
(before January 5, 2019):**

• Full conference	\$1,125.00
• Neuroradiology	\$475.00
• Neuropathology	\$925.00

**Late conference registration
(after January 5, 2019):**

• Full conference	\$1,225.00
• Neuroradiology	\$575.00
• Neuropathology	\$1,025.00

For more information,
please contact Christina Fontana,
Meeting Education Coordinator:
christina.fontana@inova.org
703-204-3353

Accreditation:

The Inova Office of Continuing Medical Educations is accredited by the Medical Society of Virginia to sponsor continuing medical education for physicians.

Credit Designation:

The Inova Office of Continuing Medical Education designates this live educational activity for a maximum of 42.25 AMA PRA Category 1 Credit(s)™.

Physicians should only claim credit commensurate with the extent of their participation in the activity. Physicians may claim up to 42.25 credits in Type 1 CME on the Virginia Board of Medicine Continued Competency and Assessment Form required for renewal of an active medical license in Virginia.

