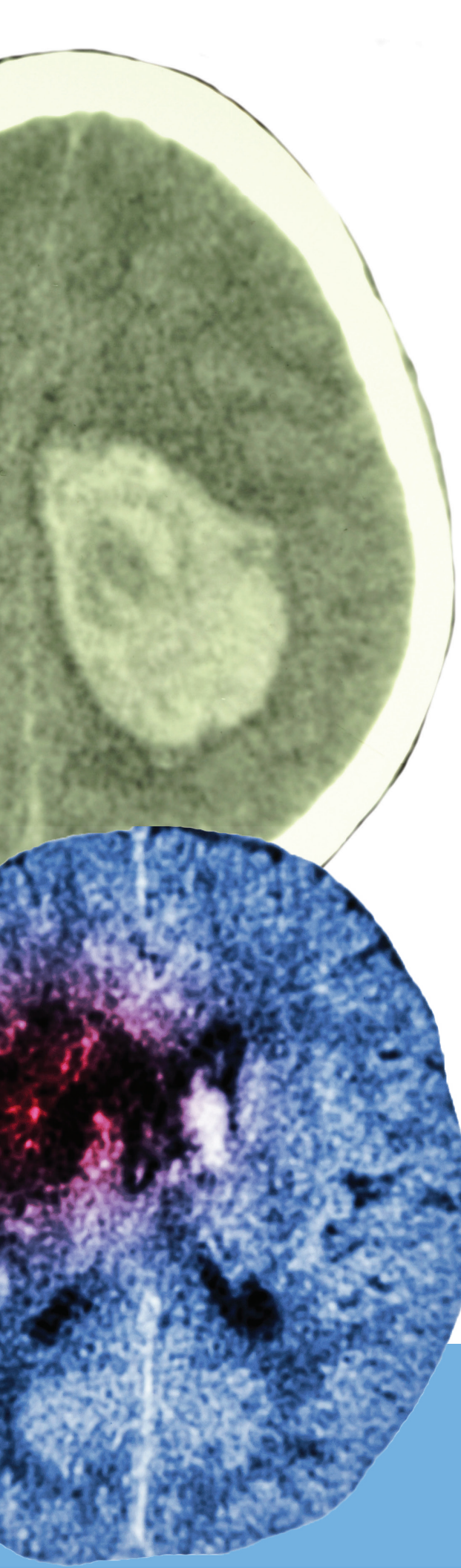




Inova Neuroscience and Spine Institute *presents*

Dr. Kenneth M. Earle Memorial Neuropathology Review

Tuesday, February 7, 2017 – Friday, February 10, 2017
Sheraton Tysons Corner, Vienna, VA

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.

AND

Washington Neuroradiology Review

Saturday, February 11, 2017 – Sunday, February 12, 2017
Sheraton Tysons Corner, Vienna, VA

The conference provides radiologists, neurologists, neuro-surgeons 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.

This comprehensive six-day course begins with four-days of Neuropathology followed by two-days of Neuroimaging 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 will benefit from the expert curriculum this course offers.



INOVA®

Join the future of health.

Washington Neuroradiology Review

Saturday, February 11, 2017 – Sunday, February 12, 2017
Sheraton Tysons Corner, Vienna, VA

Saturday, February 11, 2017

7:00 a.m.	Registration
7:30 a.m.	Light breakfast Interesting case review for lunch with faculty
7:50 a.m.	Welcome
8:00 a.m.	Basic Neuroimaging Sequences and Contrast Enhancement James Smirniotopoulos, MD
8:50 a.m.	Using Edema and Location in Differential Diagnosis James Smirniotopoulos, MD
9:30 a.m.	Case Studies
9:40 a.m.	Break
9:55 a.m.	Vascular Malformations Lt. Col Robert Shih, MD
10:40 a.m.	CNS Infections Alice B. Smith, MD
11:30 a.m.	Case Conference Working lunch
12:30 p.m.	CNS Trauma James Smirniotopoulos, MD
1:15 p.m.	Non-traumatic CNS Emergencies C. Douglas Phillips, MD
2:00 p.m.	Break
2:15 p.m.	Skull Base C. Douglas Phillips, MD
3:00 p.m.	Acute Stroke DX and TX C. Douglas Phillips, MD
3:45 p.m.	Clinical Correlations of Spinal Imaging Paul Maurer, MD
4:15 p.m.	Adjourn

Sunday, February 12, 2017

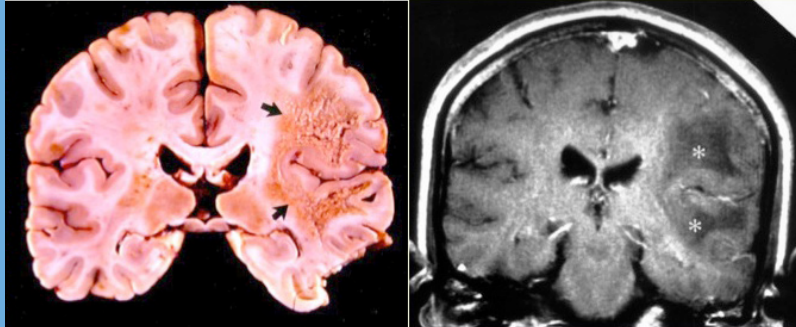
7:30 a.m.	Registration and breakfast Unusual case contest
8:00 a.m.	Anomalies of the CNS: Spine Alice B. Smith, MD
8:50 a.m.	Anomalies of the CNS: Brain Alice B. Smith, MD
9:40 a.m.	White Matter Diseases Lt. Col Robert Shih, MD
10:25 a.m.	Break – Submit Case Answers
10:40 a.m.	Intraventricular Masses Lt. Col Robert Shih, MD
11:25 a.m.	Phakomatoses James Smirniotopoulos, MD
12:50 p.m.	Case Conference Tying it all together
1:45 p.m.	Q & A, Prizes
2:00 p.m.	Adjourn

Register Today!
Visit www.inova.org/neurocme



Accreditation: The Inova Office of Continuing Medical Education 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 educational activity for a maximum of 13.5 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 13.5 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.



Thursday, February 9, 2017

- 7:30 a.m. **Breakfast**
- 8:00 a.m. **Bacterial Infections of the CNS**
Bette Kleinschmidt-DeMasters, MD
- 9:00 a.m. **Fungal and Parasitic Infections of the CNS**
Bette Kleinschmidt-DeMasters, MD
- 10:00 a.m. **Break**
- 10:15 a.m. **Viral Infections and Other Immunodeficiency Disorders of the CNS**
Kym A. Gyure, MD
- 11:45 a.m. **Lunch (on your own)**
- 1:00 p.m. **Vascular Disease and Ischemic Lesions of the CNS**
Ethan Stolzenberg, MD
- 2:30 p.m. **Toxic and Metabolic Diseases of the CNS**
Kym A. Gyure, MD
- 3:30 p.m. **Break**
- 3:45 p.m. **Diseases of the Spinal Cord**
Ronald C. Kim, MD
- 5:15 p.m. **Clinical Correlations**
Mahtab Tehrani, MD and Nilesh Vyas, MD
- 6:00 p.m. **Adjourn**

Friday, February 10, 2017

- 7:30 a.m. **Breakfast**
- 8:00 a.m. **Pediatric Neuropathology Part I**
Brian Harding, MD
- 9:00 a.m. **Pediatric Neuropathology Part II**
Brian Harding, MD
- 10:00 a.m. **Break**
- 10:15 a.m. **Degenerative Diseases of the CNS**
Joseph Parisi, MD
- 11:45 a.m. **Lunch (on your own)**
- 1:00 p.m. **Demyelinating Disease**
Robert E. Schmidt, MD, PhD
- 2:30 p.m. **Break**
- 2:45 p.m. **Diseases of the Peripheral Nerves**
Robert E. Schmidt, MD, PhD
- 4:15 p.m. **Basics of Muscle Biospy Interpretation**
Iren Horkayne-Szakaly, MD
Robert Jones, MD
- 5:15 p.m. **Clinical Correlations**
Mahtab Tehrani, MD
James Leiphart, MD, PhD
- 6:00 p.m. **Adjourn**



Accreditation: The Inova Office of Continuing Medical Education 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 educational activity for a maximum of 33.25 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Physicians may claim up to 33.25 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.

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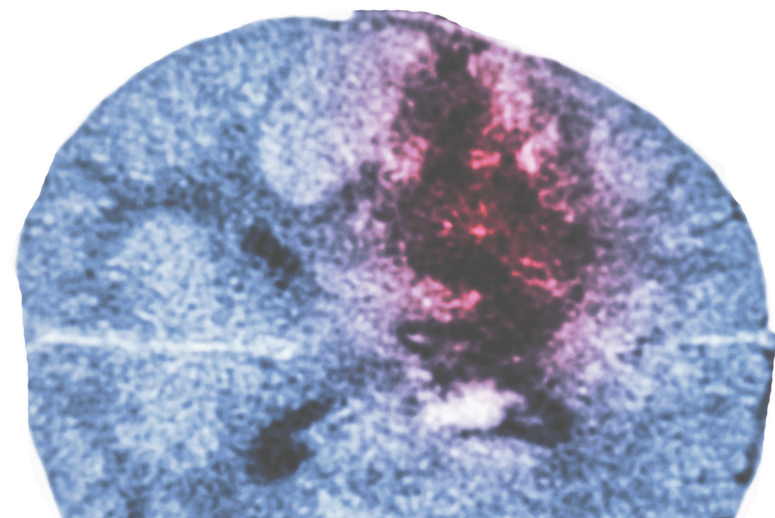
Tuesday, February 7, 2017

7:15 a.m.	Registration/Breakfast
8:00 a.m.	Welcome and Opening Remarks James Ecklund, MD
8:15 a.m.	Introduction to Neuropathology Glenn D. Sandberg, MD
9:30 a.m.	Biomarkers in CNS Tumors Arie Perry, MD
10:30 a.m.	Break
10:45 a.m.	Glial Tumors I Gregory N. Fuller, MD, PhD
12:00 p.m.	Lunch (on your own)
1:00 p.m.	Glial Tumors II Gregory N. Fuller, MD, PhD
2:30 p.m.	Break
2:45 p.m.	Non-glial Tumors Martha Quezado, MD
4:15 p.m.	Pituitary Neoplasms Arie Perry, MD
5:15 p.m.	Clinical Correlations Mahtab Tehrani, MD and Allen Waziri, MD
6:00 p.m.	Adjourn

Wednesday, February 8, 2017

7:30 a.m.	Breakfast
8:00 a.m.	Embryonal, Neuronal and Mixed Glioneuronal Neoplasms Alexander R. Judkins, MD
9:00 a.m.	Hematopoietic Lesions of the CNS, Germ Cell Tumors and Pineal Region Neoplasms Mariarita Santi, MD and Karuna Shekdar, MD
10:00 a.m.	Break
10:15 a.m.	Pathologic Analysis of CNS Surgical Specimens Peter C. Burger, MD
11:15 a.m.	Correlation of Neuroradiology and Neuropathology Part I James G. Smirniotopoulos, MD
12:15 p.m.	Lunch (on your own)
1:30 p.m.	Correlation of Neuroradiology and Neuropathology Part II James G. Smirniotopoulos, MD
2:30 p.m.	CNS Trauma Part I Mary E. Case, MD
3:30 p.m.	Break
3:45 p.m.	CNS Trauma Part II Mary E. Case, MD
4:45 p.m.	Clinical Correlations Mahtab Tehrani, MD and Leon Moores, MD, MS
6:00 p.m.	Adjourn

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



A Six Day Course in Neuropathology and 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
- 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 1/7/2017):

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

Late conference registration:

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

*Registering more than one attendee?

Please contact Toby Younis at toby.younis@inova.org or 703.204.6383.

For more information: Michele Theiss, Academic Program Manager: michele.theiss@inova.org or 703.776.4023.

Register at www.inova.org/neurocme

2017 Faculty

Glenn D. Sandberg, MD
Forensic Neuropathologist
Harris County Institute of Forensic Sciences, Houston, Texas

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

Gregory N. Fuller, MD, PhD
Professor and Chief Neuropathologist
The University of Texas M. D. Anderson Cancer Center
Houston, Texas

Martha Quezado, MD
Deputy Head General Surgical Pathology section
Anatomic Pathology Residency Program Director, Laboratory of Pathology, NCI/NIH

Mahtab Tehrani, MD
Neuropathologist, Inova

Allen Waziri, MD
Medical Director, Neuro-Oncology Program, Inova Neuroscience and Spine Institute

Alexander R. Judkins, MD
Pathologist-in-Chief, Pathology and Laboratory Medicine
Vice Chair, Dept. of Pathology, USC
Associate Professor of Pathology, USC Keck School of Medicine

Mariarita Santi, MD, PhD
Professor of Pathology and Laboratory Medicine
Children's Hospital of Philadelphia

Karuna Shekdar, MD
Assistant Professor of Clinical Radiology, Children's Hospital of Philadelphia

Peter C. Burger, MD
Professor of Pathology, Neurosurgery and Oncology
The Johns Hopkins School of Medicine

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

Mary E. Case, MD
Professor of Pathology
Anatomic, Neuropathology, and Forensic Pathology, Saint Louis University, School of Medicine

Leon Moores, MD, MS, FACS, FAANS
CEO, Pediatric Services of Virginia
Chair of Quality, Neurosciences, Inova

Bette Kleinschmidt-DeMasters, MD
Professor and Head of Neuropathology
School of Medicine, Department of Pathology, University of Colorado, Anschutz Medical Campus

Kym A. Gyure, MD
Professor of Pathology and Neurology
Vice Chair & Director of Anatomic Pathology and Neuropathology Residency Program Director
Department of Pathology, Robert C. Byrd Health Sciences Center, School of Medicine
West Virginia University

Ethan Stolzenberg, MD
Assistant Professor, Pathology (Clinical), University of Oklahoma College of Medicine

Ronald C. Kim
Health Sciences (HS) Clinical Professor, Pathology and Neurology, University of California Irvine (UCI) Douglas Medical Center

Nilesh Vyas, MD
Medical Director, Endovascular Surgery, Inova Neuroscience and Spine Institute

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

Joseph Parisi, MD
Mayo Clinic, Laboratory Medicine and Pathology

Robert E. Schmidt, MD, PhD
Professor of Pathology and Immunology Director, Division of Neuropathology
Medical Director, Electron Microscope Facility
Washington University School of Medicine

Iren Horkayne-Szakaly, MD
Neuropathologist
Joint Pathology Center
Defense Health Agency

James Leiphart, MD, PhD
Vice Chair of Education, Inova
Associate Professor, Neurosurgery, VCU

Robert Y. Shih, MD, LTC, MC,
Chief of Neuroradiology
Walter Reed National Military Medical Center, Assistant Professor of Radiology
Uniformed Services University of the Health Sciences

Alice B. Smith, MD
Former Chief of Neuroradiology at AFIP

C. Douglas Phillips, MD, FACP
Director of Head and Neck Imaging, Professor of Radiology
Weill Cornell Medicine College
New York-Presbyterian

Paul Maurer, MD
Chief of Neurosurgery
Surgical Director, Unity Spine Center