2013 Advanced Gamma Knife Course

Monday, September 9, 2013

7:15 - 8:00 a.m.	*Registration and Breakfast*
8:00 - 8:15 a.m.	Dr. Mark Shaffrey – Opening Remarks
8:15 - 8:45 a.m.	Dr. Jason Sheehan- History of Stereotactic Radiosurgery
8:45 - 9:00 a.m	Dr. Edward Nemergut – Monitored Anesthesia for Gamma Knife (GK) frame placement
9:00 - 9:30 a.m.	Dr. Steve Newman – Ophthalmological considerations for Pituitary patients undergoing Gamma Knife Surgery (GKS)
9:30 - 10:00 a.m.	*Break*
10:00 - 10:35 a.m.	Dr. Mary Lee Vance – Endocrine considerations for Cushing's Disease, Nelson's, and non-functioning Adenomas
10:35 - 11:10 a.m.	Dr. Michael Thorner – Endocrine considerations for Acromegaly and Prolactinomas
11:10 -11:45 p.m.	Dr. Sugoto Mukherjee– Neuro-Imaging for GKRS of Pituitary Adenomas
11:45 - 12:45 p.m.	*Lunch*
12:45 -1:20 p.m.	Dr. John Jane, Jr. -Endoscopic Resection of Pituitary Adenomas versus GKRS
1:20 -1:55 p.m.	Dr. Edward Oldfield – Transsphenoidal, Microcapsular Resection of Pituitary Adenomas versus GKRS
1:55 - 2:45p.m.	Dr. Jason Sheehan – GKRS for Pituitary Adenomas & Methods to Avoid Damage to the Optic Apparatus
2:45 - 3:15 p.m.	Roundtable Discussion on GKS for Pituitary Adenomas with Drs. Jane Jr., Oldfield, Sheehan, Thorner and Vance
3:15 - 4:00 p.m.	*Break*
4:00 - 4:30 p.m.	Dr. David Schlesinger- GKRS Dose Planning for Pituitary Tumors
4:30 - 5:00 p.m.	Dr. David Schlesinger, Dr. Jason Sheehan, and Dr. Zhiyuan Xu– Hands-on Dose Planning: • Strategy with the Perfexion, • Dynamic beam shaping and shielding • Composite Shots • Discussion of participants cases
6:30 p.m.	Dinner

Tuesday, September 10, 2013

6:00 - 7:00 a.m.	*Registration and Breakfast*
7:00 - 8:00 a.m.	Dr. David Schlesinger – Technical Introduction to the Gamma Knife Perfexion • Unit Description • Radiation Unit Safety • Treatment Procedures • Emergency Procedures • NRC Regulations
8:00 - 8:30 a.m.	Dr. Sugoto Mukherjee – Neuro-Imaging of AVM's for GKRS
8:30 - 9:00 a.m	Dr. Webster Crowley - Embolization of AVMs prior to GKRS
9:00 - 9:30 a.m.	Dr. Kenneth Liu – Surgical Resection versus GKRS of AVM's
9:30 - 10:00 a.m.	Dr. Mark Quigg – GKRS for Epilepsy
10:00 - 10:15 a.m.	*Break*
10:15 - 11:00 a.m.	Dr. Chun-Po Yen- GKS for AVMs • Patient selection for GKRS • Adverse Effects • Repeat GKRS • Treatment of Pediatric Cases • Brainstem treat • Treatment of Large AVMs
11:00- 11:30 a.m.	Roundtable Discussion on GKS for Vascular Lesions with Drs . Crowley, Liu, Sheehan, and Yen
11:30 - 12:30 p.m.	*Lunch*
12:30 - 1:00 p.m.	Ms. Sophia Lee Yu – Coding and Reimbursement for the Perfexion.
1:00 - 2:00 p.m.	Dr. Jason Sheehan– Indications and clinical application of Extend System
2:00 - 2:30 p.m.	Dr. David Schlesinger- Workflow and Q/A of Extend System
2:30 - 3:30 p.m.	Drs. Sheehan, Schlesinger, Xu and Yen – Demonstration of Gamma Knife Perfexion and Extend System
3:30 - 4:00 p.m.	Drs. Sheehan, Schlesinger, Xu and Yen Hands-on dose planning strategy
4:00 p.m.	Tour of UVA Hospital or Historical Tour of UVA (optional)
6:30 p.m.	Dinner

Wednesday, September 11, 2013

6:00 - 7:00 a.m.	*Registration and Breakfast*
7:00- 8:00 a.m.	Dr. David Schlesinger Overview of Perfexion Physics • Basic Physics Concepts • Perfexion Beam Collimation and Modeling • Loading and Commissioning • Perfexion Dosimetry & Treatment Planning • Perfexion Quality Assurance
8:00 - 8:30 a.m.	Dr. Max Wintermark- Advancing imaging techniques for GKRS
8:30 - 9:00 a.m.	Dr. Deric Park– Medical Management of Brain Metastasis Patients
9:00 - 9:30 a.m.	Dr. Mark Shaffrey –Surgical Resection versus GKS of Brain Metastasis
9:30 - 10:00 a.m	*Break*
10:00 - 10:30 a.m.	Dr. James Larner – • Radiobiology of Radiosurgery • WBRT versus GKS for Brain Metastasis
10:30 - 11:00 a.m.	Dr. Jason Sheehan – Gamma Knife Surgery (GKS) for Brain Metastasis
11:00 - 11:30 a.m.	Dr. Zhiyuan Xu • Receptor Status and Brain Metastasis • GPA and Brain Metastasis
11:30 - 12:00 p.m.	Round Table Discussion on Gamma Knife Surgery for Brain Metastasis with Drs. Larner, Park, Shaffrey and Sheehan
12:00 - 1:00 p.m.	*Lunch*
1:00 - 2:00 p.m.	Drs. Schlesinger, Sheehan, Xu and Yen Hands-on dose planning strategy with the Perfexion and discussion of participants' cases
2:00 - 2:30 p.m.	Dr. Jason Sheehan – Review and Concluding Remarks
2:30 p.m.	Tour of Monticello (OPTIONAL)

2013 Advanced Gamma Knife Course

Course Information

Date, Time and Location

Participants will arrive on the evening of September 8th, 2013. Classes will begin on Monday, September 9th, 8:00am in Pavilion III, situated at The Boar's Head. The course will conclude on Wednesday, September 11th, 2:30 pm.

Topics

Gamma Knife Perfexion with specific focus on its use for Pituitary Adenomas, AVM's and Brain Metastasis.

Size and Participation

Individual participation in discussion and hands-on exercises is expected. The course is limited to 20 participants to foster an effective learning environment. Target audience: Neurosurgeons, Medical Physicists, Radiation Oncologists, Medical Oncologists, Neuro-Oncologists and Otolaryngologists.

Course Overview

In this course, participants will develop a fundamental knowledge of radiosurgical principles using the Gamma Knife (GK) Perfexion. We will cover the use of the GK Perfexion. Participants will have a thorough knowledge of all aspects of Perfexion's practical for intracranial radiosurgery.

New to the program this year, participants will learn about indications and techniques for multisession radiosurgery with the Gamma Knife Extend System.

We will focus upon the nuances of Gamma Knife surgery for the treatment of AVM's, Pituitary Adenomas, and Brain Metastasis. For AVM's, we will detail our protocol and outcomes for large AVM's, the role of embolization, retreatment of AVM's, a definition of subtotal obliteration and its prognosis, and the delayed changes (e.g. cyst formation and neoplasia) that may follow radiosurgery.

For pituitary adenomas, we will highlight the challenges of retreatment and treatment when there is no discernible lesion on MRI. We will outline the timing for endocrinological remission and the small chance of recurrence despite an initial remission. The potential complications (e.g. delayed hypopituitarism, visual dysfunction, secondary tumors, and stroke) associated with Gamma Knife surgery for pituitary adenomas will also be detailed. The importance of creating an appropriate distance between the tumor and optic pathways prior to Gamma surgery and methods for achieving this will be discussed.

With regard to Brain Metastasis, we will focus on the changing treatment paradigms with regard to the management of patients with stage IV carcinoma. Gamma Knife surgery along with other treatment options will be discussed. In particular, the role of initial and repeat GKS for the Brain Metastasis along with GKS of a surgical resection cavity will be discussed.

The course will also offer much "hands on" training. We will schedule cases relevant to the particular topics being covered on each day. Each day will begin with stereotactic frame placement performed in the operating room. The advantages of frame placement under monitored anesthesia will be discussed. Participants will observe frame placement in the operating room.

In order to offer a diverse and well rounded course, we have invited others to speak about the history and future of radiosurgery and the roles of medical management, microsurgery and neuro-interventional approaches in the context of Radiosurgery patients.

In summation, we believe the course outlined below will represent a course unlike that offered by other institutions. It will hopefully help allow us to share a different philosophy and a set of techniques not covered in other courses or written about in the literature.

Accreditation

The University of Virginia School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

The University of Virginia, Office of CME designates this live activity for a maximum of 20.5 *AMA PRA Category 1 Credit(s)™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The University of Virginia School of Medicine awards 20.5 hours of participation (equivalent to *AMA PRA Category 1 Credits ™*) to each non-physician participant who successfully completes this educational activity. The University of Virginia School of Medicine maintains a permanent record of participation for six (6) years.

University of Virginia Faculty Lecturers

Webster Crowley, MD
Department of Neurosurgery

John A. Jane, Jr., MD
Department of Neurosurgery

James Larner, MD
Department of Radiation Oncology

Kenneth Liu, MD
Department of Neurosurgery

Sugoto Mukherjee, MD
Department of Radiology

Edward Nemergut, MD
Department of Anesthesiology

Steven A. Newman, MD
Department of Opthalmology

Edward Oldfield, MD
Department of Neurological Surgery

Deric Park, MD
Department of Neurosurgery

Mark Quigg, MD
Department of Neurology

Mark Shaffrey, MD
Department of Neurosurgery

David Schlesinger, PhD
Department of Neurosurgery

Jason P. Sheehan MD, PhD
Department of Neurosurgery

Michael Thorner, MD
Division of Endocrinology and Metabolism

Mary L. Vance, MD
Division of Endocrinology and Metabolism

Max Wintermark, MD
Division of Neuroradiology

Zhiyuan Xu, MD
Department of Neurosurgery

Chun-Po Yen, MD
Department of Neurosurgery

Ms. Sophia Lee Yu
Department of Neurosurgery / Gamma Knife

Area Information

Meals and Lodging

All meals are included with the Advanced Course. Breakfast, lunch, dinner and a variety of refreshments will be provided through catered meals. For information about lodging, please see the contact information below:

Boar's Head Inn
200 Ednam Drive
Phone: (434) 296-2181 Fax: (434) 972-6021
Rate: $155.00/night (not inclusive of taxes and resort fee of $23.50)
*To get this rate, please make your reservation through us.

Courtyard by Marriott
1201 West Main St.
Phone: (434) 977-1700 Fax: (434) 977-2600
Rate: $155.00/night (not inclusive of taxes)
*To get this rate, please use booking code GKCGKCA, or mention Gamma Knife

Charlottesville - home to the University of Virginia, the birthplace of Thomas Jefferson, and a true representative of the heartland of historic Virginia. Located in central Virginia in the foothills of the Blue Ridge Mountains, Charlottesville has a population of 42,000 in a rural/metropolitan area of about 88,400. Washington, D.C. is less than two hours away, but there are many things to see and do here in town.

Jefferson's Academical Village- The University of Virginia is famed for the beauty of its buildings. Designed by Thomas Jefferson, they are considered among the finest examples of classic American architecture. The University is also noted for its scholarly achievements and historical associations. It began with Jefferson's concept and design for a community of scholars, and "academical village." The Rotunda, modeled after the Roman Pantheon, served as focal point, library and classroom. Two ranges extended from the Rotunda; professors lived and taught in the large Pavilions, and students lived in the smaller rooms in between. This tradition is carried on today and the Department of Neurological Surgery holds its teaching conferences in Pavilion V regularly.

University of Virginia Health System can trace its beginnings directly to Thomas Jefferson, under whose leadership as Rector, eight schools including a School of Anatomy and Medicine opened on March 7, 1825. Jefferson chose the school's original faculty, a single professor, Robley Dunglison, whose first class of 20 students met in his home on the Grounds. Walter Reed is among the alumni of the Medical School. The teaching hospital, which opened in 1901 as a 25-bed facility, is today housed in a new eight-story building with 597 beds and 30 bassinets. It has nearly 100 intensive care beds. A recent report by U.S. News and World Report listed the Neurosciences clinical program at UVA as among the best in the nation.

Monticello - Thomas Jefferson began construction on this architectural masterpiece in 1769 and continued for more than 40 years. He also designed the grounds of his "little mountain home." The roundabout walks, oval flowerbeds, vegetable gardens, vineyards, grove, and graveyard have been fully restored. (434) 984-9800, Hours 9-5. Fee.

Michie Tavern Museum - This famous tavern of the 1700's still serves meals in the "Ordinary", a converted log cabin used 200 years ago. Guests enjoy food of the colonial times and can tour the Tavern, outbuildings, general store, and Meadow Run Grist Mill. The general store sells handcrafts and antiques of Virginia. (434) 977-1234, Hours 9-5. Fee.

Ash Lawn - Home of President James Monroe, Ash Lawn is a 550-acre historic estate and has been almost fully restored as a working plantation. Special events at Ash Lawn include operas, concerts, and festivals. (434) 293-8000, Hours: 9-6. Fee.

Wineries - There are many local wineries that offer tours, wine tastings and sales. Ask us for further information.

Skyline Drive/Blue Ridge Parkway - Enjoy the beauty of the Blue Ridge Mountains, scenic overlooks, exhibits, and hiking trails. Located 25 miles west of Charlottesville with easy access via I-64.

For more information about Charlottesville and its surrounding area, visit: http://www.charlottesville.org/ and http://www.pursuecharlottesville.com/

Other Information

Disclosure of faculty financial affiliations

The University of Virginia School of Medicine, as an ACCME accredited provider, endorses and strives to comply with the Accreditation Council for Continuing Medical Education (ACCME), Standards of Commercial Support, Commonwealth of Virginia statutes, University of Virginia policies and procedures, and associated federal and private regulations and guidelines on the need for disclosure and monitoring of property and financial interests that may affect the scientific integrity and blance of content delivered in continuing medical education activities under our auspices. The University of Virginia School of Medicine requires that all CME activities accredited through this institution be developed independently and be scientifically rigorous, balanced and objective in the presentation/discussion of its content, theories and practices. All faculty presenters participating in an accredited CME activity are expected to disclose relevant financial relationships with commercial entities occurring within the past 12 months (such as grants, or research support, employee, consultant, stock holder, member of speakers bureau, etc.) The University of Virginia School of Medicine will employ appropriate mechanisms to resolve potential conflicts of interest to maintain the standards of fair and balanced education to the reader. Questions about specific strategies can be directed to the Office of Continuing Medical Education, University of Virginia School of Medicine, Charlottesville, Virginia.

The faculty and staff of the University of Virginia Continuing Medical Education have no financial affiliations to disclose.

Disclosure of discussion of non-FDA approved uses for pharmaceutical products and/or medical devices

The University of Virginia School of Medicine, as an ACCME provider, requires that all faculty presenters identify and disclose any "off label" uses for pharmaceutical and medical devices/products. The University of Virginia School of Medicine recommends that each physician fully review all the available data on new products or procedures to instituting them with patients.

Disclosure for attendance records and certificate distribution

The University of Virginia Office of Continuing Medical Education requires that all participants sign attendance sheets daily to confirm participation in the CME activity for that day.

Certificates of attendance, designating the maximum number of hours of participation, can be printed from the website after attendees have completed the evaluation form online.

Special Needs

The Americans with Disabilities Act of 1992 requires that all individuals, regardless of their disabilities, have equal access. The Office of Continuing Medical Education of the University of Virginia School of Medicine is pleased to assist participants with special needs. **Requests need to be made in writing and sent to the Office of Continuing Medical Education, Box 800711, 6202 Hospital West, University of Virginia School of Medicine, Charlottesville, VA 22908-0711.**

Advanced Gamma Knife Course
at
The Boar's Head, Charlottesville
September 9-11, 2013

Department of Neurological Surgery
University of Virginia, Charlottesville, VA

Sponsored by:
The Office of Continuing Medical Education
University of Virginia, Charlottesville, VA

Last Name First Name Initial Degrees

Department and Institution

Mailing Address

Work Phone Fax E-mail

Date of Birth (required for tracking CME credits/CEU)

Special needs (sight impaired, wheelchair, etc.):_____

Registration fee includes program, lunch, and dinner as described in the program. Make checks payable on a U.S. bank only to the UVA Physicians Group. Registration will not be accepted without tuition payment. Cancellations must be made two weeks prior to the start of the course; otherwise the tuition will count towards a future training course.

Please mail this registration form and payment to:

UVA Dept. of Neurosurgery
PO Box 800212
Attn: Sophie Lee Yu, Conference Coordinator
Charlottesville, VA 22908 USA
Phone: 434-924-2336
Fax: 434-977-6279
E-mail: sly9p@virginia.edu

___ Check Enclosed
___ Dept. check to follow

Credit Card registration:

___ VISA ___ Master card
Account no._____
Expiration Date_____
Signature_____

Check all that apply:
____ Physicians and Medical Physicists Course $3,000
____ Nurse $2,000 ____ Residents/Fellow $750
____ Spouse/Guest (for all social events) $200
Attending social functions on ___ Mon ___ Tues

You may also register online at:

www.medicine.virginia.edu/gamma-knife-course

Registrations will not be processed unless full payment is received.

Please indicate to us your background:

Neurosurgeon ____

Radiation Oncologist ____

Medical Physicist ____

Other (Please describe) _____

_____

Please Describe your Experience with Gamma Knife:

None ____
Rare (Less than 4 times a Year) ____
Quarterly ____
Monthly ____
Weekly ____