

## Monday

TIME	TITLE	FACULTY
7:50 AM	Introductions and Course Outline	Rupesh Kotecha, M.D.
8:00 AM	Stereotactic Frame Placement: Application and Use in Practice	Vitaly Siomin, M.D.
8:30 AM	Pearls and Pitfalls in Imaging the Patient Undergoing Gamma Knife® Radiosurgery	Kevin J. Abrams, M.D.
9:15 AM	Stereotactic Radiosurgery in Clinical Practice	Minesh P. Mehta, M.D.
10:00 AM	BREAK	
10:15 AM	Evolution of Gamma Knife® to ICON™	Michael W. McDermott, M.D.
10:45 AM	Gamma Knife® ICON™ Technology Additions: Frameless Treatments, CBCT and HDMM	Alonso N. Gutierrez, Ph.D.
11:15 AM	Basic Treatment Planning	Ranjini Tolakanahalli, Ph.D.
12:15 PM	LUNCH	
1:00 PM	Practical Introduction to the Gamma Knife® Machine <ul style="list-style-type: none"> <li>- Radiation Unit</li> <li>- Patient Positioning System</li> <li>- Control System</li> </ul>	Susan Lohman, R.N. (Elekta)
1:45 PM	BREAK	
2:00 PM	Radiosurgery Workflow Demonstrations <ul style="list-style-type: none"> <li>- Stereotactic Frame Principles</li> <li>- Creating the Optimal Mask</li> </ul>	Michael W. McDermott, M.D. D Jay Wieczorek, Ph.D. Gamma Knife® Therapists
4:00 PM	Mock Workflow Demonstration	Rupesh Kotecha, M.D. D Jay Wieczorek, Ph.D. Gamma Knife® Therapists
5:00 PM	ADJOURN	

## Tuesday

TIME	TITLE	FACULTY
7:50 AM	Daily Recap and Questions	Rupesh Kotecha, M.D.
8:00 AM	Radiosurgery Physics	Alonso N. Gutierrez, Ph.D.
8:30 AM	Radiosurgery Planning Strategies	D Jay Wieczorek, Ph.D.
9:30 AM	BREAK	
9:45 AM	Treatment Planning Capabilities and Machine Operations	Susan Lohman, R.N. (Elekta)
11:00 AM	Practical Physics Principles and Quality Assurance	D Jay Wieczorek, Ph.D.
11:30 AM	Treatment Planning System Administration	D Jay Wieczorek, Ph.D.
12:00 PM	LUNCH	
12:45 PM	Programmatic Essentials: Patient Preparation and Pre-Op - Nursing Care and Coordination of the Gamma Knife® Patient	Clare M. Morales, R.N. Haley R. Appel, PA-C
1:15 PM	Gamma Knife® Safety and Clearance Procedures	D Jay Wieczorek, Ph.D.
1:45 PM	Stereotactic Image Distortion and Historical Errors	Alonso N. Gutierrez, Ph.D.
2:15 PM	Maximizing Gamma Knife® Accuracy: Inherent Limitations	Alonso N. Gutierrez, Ph.D.
2:45 PM	BREAK	
3:00 PM	Gamma Knife® Radiosurgery: Radiation Safety and Regulatory Guidelines	Ranjini Tolakanahalli, Ph.D.
4:00 PM	Machine Demonstrations <ul style="list-style-type: none"> <li>- Safety Procedures</li> <li>- Clearance Procedures</li> <li>- Quality Assurance</li> <li>- Emergency Procedures</li> </ul>	Rupesh Kotecha, M.D. D Jay Wieczorek, Ph.D. Ranjini Tolakanahalli, Ph.D.
5:00 PM	ADJOURN	

## Wednesday

TIME	TITLE	FACULTY
7:30 AM	Machine Physics QA	Rupesh Kotecha, M.D. D Jay Wieczorek, Ph.D.
7:50 AM	Daily Recap and Questions	Rupesh Kotecha, M.D.
8:00 AM	Participant Breakout Session <ul style="list-style-type: none"> <li>- Frame Placement (Neurosurgeons)</li> <li>- Making a Mask (Radiation Oncologist)</li> <li>- QA / Safety / Clearance Procedures (Physics)</li> <li>- Treatment Planning Exercises</li> </ul>	Michael W. McDermott, M.D. Rupesh Kotecha, M.D. D Jay Wieczorek, Ph.D.
10:30 AM	BREAK	
10:45 AM	Radiosurgery for Benign Tumors: Pituitary Adenomas	Matthew D. Hall, M.D.
11:15 AM	Radiosurgery for Benign Tumors: Meningiomas	Michael W. McDermott, M.D.
11:45 AM	Radiosurgery for Benign Tumors: Vestibular Schwannomas	Matthew D. Hall, M.D.
12:15 PM	LUNCH	
1:00 PM	Basic Radiology of Radiosurgery	Michael D. Chuong, M.D.
1:30 PM	Basic Principles of Radiosurgery	Rupesh Kotecha, M.D.
1:45 PM	Radiosurgery for Brain Metastasis	Rupesh Kotecha, M.D.
2:45 PM	BREAK	
3:00 PM	Gamma Knife® Commissioning	D Jay Wieczorek, Ph.D.
3:30 PM	Coding and Reimbursement	Denise C. Aponte, RT(T)
4:00 PM	Treatment Planning Session	Rupesh Kotecha, M.D. D Jay Wieczorek, Ph.D.
4:45 PM	ADJOURN	

## Thursday

TIME	TITLE	FACULTY
8:15 AM	Daily Recap and Questions	Rupesh Kotecha, M.D.
8:30 AM	Radiosurgery for Arterio-Venous Malformations	Vitaly Siomin, M.D.
9:00 AM	Volume Staged Stereotactic Radiosurgery for Arterio-Venous Malformations	Michael W. McDermott, M.D.
9:30 AM	Planning Arterio-Venous Malformations: Creating a Workflow	D Jay Wieczorek, Ph.D.
10:00 AM	BREAK	
10:15 AM	Stereotactic Radiosurgery for Glioma	Minesh P. Mehta, M.D.
10:45 AM	Group Treatment Planning Session	Rupesh Kotecha, M.D. D Jay Wieczorek, Ph.D. Ranjini Tolakanahalli, Ph.D.
12:00 PM	LUNCH	
12:30 PM	Principles of Pediatric Radiosurgery: Neurosurgery	Toba Niazi, M.D.
1:00 PM	Principles of Pediatric Radiosurgery: Radiation Oncology	Matthew D. Hall, M.D.
1:45 PM	Functional Applications with Leksell Radiosurgery	Michael W. McDermott, M.D.
2:30 PM	Radiation Necrosis: Diagnostic Considerations and Treatment Strategies	Yazmin Odia, M.D.
3:15 PM	Course Review	Rupesh Kotecha, M.D.
3:30 PM	Certificate Presentation	Rupesh Kotecha, M.D.
4:00 PM	ADJOURN and COURSE COMPLETION	