

## Your Current Experience/Background

(please check)

- Neurosurgeon
- Radiation Oncologist
- ENT Surgeon
- Medical Physicist
- Other \_\_\_\_\_

## Course Type

(please check)

- Online only
- Online plus 2-day in-person option

## For More Information

Kelly Powell  
Course Coordinator  
UPMC Presbyterian/Center for Image-Guided Neurosurgery  
200 Lothrop Street/Suite F188  
Pittsburgh, PA 15213-2582  
Phone: (412) 647-7744  
e-mail: powellkc@upmc.edu

## Registration Form

I am registering for course dates: \_\_\_\_\_

**Please supply all of the requested information, including preferred/correct mailing address.**

Name & Degree: \_\_\_\_\_

Title: \_\_\_\_\_

Department: \_\_\_\_\_

Hospital: \_\_\_\_\_

Address: \_\_\_\_\_

City, State & Zip: \_\_\_\_\_

Country: \_\_\_\_\_

Mobile #: \_\_\_\_\_

**(Mobile # provided will be used to access online training.)**

E-mail: \_\_\_\_\_

Please specify if Gamma Knife® site affiliation is different from hospital listed above: \_\_\_\_\_

Tuition enclosed \$: \_\_\_\_\_

**Registration will not be accepted without payment.**

(\$7,000 training fee)

Please make your check payable to **UPMC Presbyterian Shadyside** and send it with this form to:

Kelly Powell, Course Coordinator  
UPMC Presbyterian/Center for Image-Guided Neurosurgery  
200 Lothrop Street/Suite F188  
Pittsburgh, PA 15213-2582

Credit card payment is accepted. Online payment can be made at [www.upmc.com/pay/gammaknife](http://www.upmc.com/pay/gammaknife) using Chrome on Windows or Mac for optimal experience.

Payment is due at time of registration, or no later than two weeks prior to course.

A current digital photograph is required to be submitted by email to [powellkc@upmc.edu](mailto:powellkc@upmc.edu).

**The Center for Continuing Education and the Department of Neurological Surgery do not certify that, through participation in this program, participants are competent to perform certain procedures or skills. I understand that satisfactory completion of this course does not imply or confirm competency in Gamma Knife® stereotactic radiosurgery.**

Signature \_\_\_\_\_



Center for Image-Guided Neurosurgery

# Principles and Practice of Gamma Knife Radiosurgery

**Online, or  
Online plus In-Person**



*Sponsored by:*

University of Pittsburgh School of Medicine  
Department of Neurological Surgery  
Center for Continuing Education  
in the Health Sciences

## Introduction/Intent

Through attendance at this program, registrants should obtain knowledge about the practical aspects of stereotactic radiosurgery using the Leksell Gamma Knife®. Principles of radiation physics and radiobiology, as they apply to focused, small volume irradiation in single or multiple session using head frame or face mask will be covered. Registrants should be able to create radiosurgery dose plans for brain tumors, vascular malformations, and trigeminal neuralgia. At the close of the program, participants should be able to discuss those issues relevant to dose selection in individual patients and discuss the spectrum of complications after radiosurgery and their management.

No registration will be accepted without payment. Preferred payment is online via [www.upmc.com/pay/gammaknife](http://www.upmc.com/pay/gammaknife). If paying by check, make checks payable to **UPMC Presbyterian Shadyside** and include name of participant on check. Check should be mailed to:

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UPMC Presbyterian/Center for Image-Guided Neurosurgery  
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Pittsburgh, PA 15213-2582

## Registration

Early registration is recommended. Please complete the attached registration form and return promptly.

## Course Dates

<b>2025:</b>	<b>2026:</b>
January 10-17	January 9-16
March 7-14	March 13-20
May 9-16	May 8-15
July 11-18	July 10-17
September 5-12	September 11-18
November 7-14	November 13-20

If attending in person, please contact Kelly Powell at [powellkc@upmc.edu](mailto:powellkc@upmc.edu) for information regarding nearby hotel accommodations.

## Accreditation and Credit Designation

In support of improving patient care, the University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

### Physician (CME)

The University of Pittsburgh designates this live activity for a maximum of **50.50** AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Medical Physicist (CME)

The University of Pittsburgh designates this live activity for a maximum of **34.50** Medical Physics Continuing Education Credits through CAMPEP. Medical physicist should claim only the credit commensurate with the extent of their participation in the activity.

### Course Faculty

L. Dade Lunsford, MD  
Professor of Neurological Surgery

Ajay Niranjana, MD, MBA  
Professor of Neurological Surgery

Constantinos Hadjipanayis, MD, PhD  
Professor of Neurological Surgery

John C. Flickinger, MD  
Professor of Radiation Oncology

### Guest Faculty

Peter Gerszten, MD, MPH  
Professor of Neurological Surgery

### Medical Physics

Greg Bednarz, PhD

### Nursing

Miranda Crum, MSN, RN, CSRN

### Technical Support

Susan E. Lohman, RN, CNOR (Elekta)

Andy Lunsford  
Senior Field Service Engineer (Elekta)

## Disclaimer Statement

The information presented at this CME program represents the views and opinions of the individual presenters, and does not constitute the opinion or endorsement of, or promotion by, the UPMC Center for Continuing Education in the Health Sciences, UPMC/University of Pittsburgh Medical Center or Affiliates and University of Pittsburgh School of Medicine. Reasonable efforts have been taken intending for educational subject matter to be presented in a balanced, unbiased fashion and in compliance with regulatory requirements. However, each program attendee must always use his/her own personal and professional judgment when considering further application of this information, particularly as it may relate to patient diagnostic or treatment decisions including, without limitation, FDA-approved uses and any off-label uses.

## Address

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e-mail: [powellkc@upmc.edu](mailto:powellkc@upmc.edu)

## Target Audience

Neurosurgeons, radiation oncologists, medical physicists, neurotologists, fellows and residents in training who will perform brain stereotactic radiosurgery.

## Special Needs

Participation by all individuals is encouraged. Please provide two weeks advance notification of any special needs

## Program Overview

### Friday (on-line)

Course Introduction via Zoom

### Saturday and Sunday (on-line)

Basics of Gamma Knife Radiosurgery: Frames, Physics, Planning

### Monday (on-line)

Introduction to Forward and Inverse Dose Planning  
Advanced Dose Planning

### Tuesday (on-line)

Dose Planning Practice  
Review of Gamma Knife Roles and Outcomes

### Wednesday (on-line)

Dose Planning Practice, Gamma Knife Outcomes  
Course Summary, Q&A, Case Demo (optional in-person)

### Thursday (optional in-person)

Observe Cases, Practice Planning

### Friday (optional in-person)

Observe Cases, Practice Planning