CyberKnife®

CyberKnife® Physician Training

Product Training for Physicians on the CyberKnife® Treatment Delivery System.

The CyberKnife Physician Training course is designed for Physicians who have primary roles in selecting patients, contouring targets, evaluating, and approving treatment plans and confirming patient setup and alignment for all clinical applications. This course uses the CyberKnife® Treatment Delivery System and Accuray Precision® Treatment Planning System. Physicians will develop an understanding of full body radiosurgery including patient selection and clinical applications. This course emphasizes the role of the Physician in decisions involving treatment planning and delivery.

The course curriculum blends instruction on concepts of treatment planning and delivery with hands-on labs. It includes instruction on CNS and extracranial treatments, such as prostate and lung applications. Physicians interested only in intracranial and spine applications may elect to attend only the CNS module conducted on Day 1.

This course meets core curriculum requirements for CyberKnife New System Implementation.

COURSE OBJECTIVES

Upon completion of this course, attendees will be able to:

- Identify and describe key components of the CyberKnife System

- Perform treatment system safety-related tasks

- Properly place fiducials based on Accuray guidelines

- Describe the typical treatment planning workflow

- Describe the typical CyberKnife treatment delivery workflow, including patient preparation, patient alignment and treatment delivery using various tracking modes

- Outline pretreatment scanning guidelines for the various applications

SKILLS

Upon completion of this course, attendees will be able to perform the following tasks:

- Fuse images and contour volumes of interest (VOI)

- Evaluate and authorize treatment plans

- Navigate through the user interfaces of the Accuray Precision System and the CyberKnife System

- Confirm patient setup and alignment prior to treatment delivery

COURSE FORMAT
Remote or In-person
Instructor-led presentations
System demonstrations
Hands-on labs

COURSE PRE-WORK
Optional online modules available on AERO®

DURATION
Three (3) days

TARGET AUDIENCE
Radiation Oncologists
Neurosurgeons
Referring Physicians / Surgeons

PARTICIPANT BACKGROUND
Knowledge of the standards of practice in the field of radiation oncology

NO CE CREDITS OFFERED

Course Outline

Note: Duration for remote course offerings may vary. Please visit our website (https://www.accuray.com/training/) for specific dates.

The course outline below is an example of a three-day course. This is subject to change depending on course duration.

DAY ONE

- Introduction to the CyberKnife® Treatment Delivery System
- Synchrony® Skull Tracking™ mode
- Image fusion and contouring volumes of interest (VOI)
- Treatment plan evaluation for intracranial cases
- Treatment delivery alignment approval
- Synchrony® Spine Tracking Supine™ mode
- Additional practice with image fusion and contouring
- Treatment plan evaluation for spine cases
- Treatment delivery alignment approval
- Clinical practice discussion

DAY TWO

- Review of previously introduced concepts
- Synchrony® Fiducial Tracking™ mode
- Fiducial placement guidelines
- InTempo™ System
- Treatment plan evaluation for prostate cases
- Treatment delivery alignment approval
- Tracking moving targets with the Synchrony® Respiratory Tracking System
- Clinical practice discussion

DAY THREE

- Review of previously introduced concepts
- Lung Optimized Treatment (LOT) Workflow
- Simulation Application, Synchrony® Lung Tracking™ with Respiratory Modeling, Synchrony® 1 View Lung Tracking™ with Respiratory Modeling, Synchrony® Spine Tracking™ for Lung
- Treatment delivery alignment approval
- Synchrony® Spine Tracking Prone™ with Respiratory Modeling
- Evaluation of lung treatment plans using Monte Carlo Dose Calculation
- Clinical practice discussion