

Physics Differences for Radixact® with Synchrony®

Product Training for Medical Physicists on the Radixact® Treatment Delivery System and Accuray Precision® Treatment Planning System who are upgrading their system to the Synchrony® real-time motion tracking and correction feature.

The Radixact Synchrony Physics course is designed for Medical Physicists responsible for performing commissioning and quality assurance (QA) tasks on the Radixact Treatment Delivery System. This course covers the Synchrony® motion tracking and correction feature, including theory, delivery, planning and QA for motion tracking plans.

This course is designed for Medical Physicists who are confident users of the Radixact® Treatment Delivery System. New users must attend the Radixact® Physics Essentials Course first. However, if you are a confident user of the TomoTherapy® Treatment Delivery System who is trading up to a Radixact® System with the Synchrony® feature, it is recommended to attend the Physics Differences for TomoTherapy® with iDMS® course (two half day sessions – virtual) first, then attend the Physics Differences for Radixact® with Synchrony® course.

NOTE: The Synchrony® feature is not available for the TomoTherapy® Treatment Delivery System

COURSE OBJECTIVES

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

- Differentiate between the three motion tracking methods
- Describe how the system tracks the target position
- Explain how the jaws and leaves correct for target motion

SKILLS

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

- Identify patients with targets appropriate for motion tracking
- Perform additional planning steps for motion tracking
- Deliver treatment plans with motion tracking
- Monitor and appropriately adjust motion tracking parameters on the Treatment Delivery Console
- Address pauses during treatment delivery
- Perform commissioning and quality assurance of the Synchrony® feature and ClearRT™ Helical KVCT feature

COURSE FORMAT

Instructor-led presentations
System demonstrations
Hands-on labs

COURSE PRE-WORK

Optionally, review introductory materials on Radixact® Synchrony®

DURATION

Three (3) days

TARGET AUDIENCE

Medical Physicists

PARTICIPANT BACKGROUND

Confident user of the Radixact® System, including commissioning and QA

NO CE CREDITS OFFERED

Course Outline

Note: Course agenda is subject to change without notice.

DAY ONE

- Overview of the Synchrony® feature
- Treatment delivery demo
- Selecting patients for successful motion tracking
- Planning overview and hands-on practice
- Introduction to motion tracking parameters on the Treatment Delivery Console

DAY TWO

- Basic treatment workflows
- Monitoring patient treatments
- Addressing pauses and interruptions

DAY THREE

- Commissioning and routine QA of the Synchrony feature
- Patient QA for Synchrony plans
- Overview and commissioning of the ClearRT™ Helical kVCT feature