



INTENSITY-MODULATED RADIATION THERAPY (IMRT) IN MODERN RADIATION ONCOLOGY

Koç University Hospital, a leading institution in healthcare, prioritizes ethical values, innovative approaches, and international standards in education, research, and healthcare services. The hospital's collaboration with **MD Anderson** Cancer Center and its team of highly skilled professors and medical professionals who are members of the Türkiye Radiation Oncology Association, highlights their commitment to delivering cutting-edge radiation oncology treatments and practices

The Upcoming IMRT Training Pre- Registration has started

For more detail about the training program please fill out the Pre-Registration form on the website.

Deadline: February 2025

24 - 27 Feb 2025

Venue:

Koç University Hospital, Istanbul/ Turkey

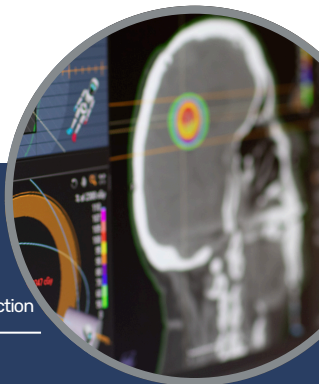
Course Description:

Explore the best practices and new trends in Intensity-Modulated Radiation Therapy (IMRT). This on-site course is made for both beginner and experienced radiation therapists, along with medical physicists. Its main goal is to help beginners meet current practice standards and keep advanced users informed about the latest industry advancements.

Our innovative blended learning approach combines on-site lectures with pre-recorded sessions. The curriculum is organized thematically and comprehensively covers key technological aspects, including treatment planning, image guidance and adaptation, and treatment delivery.

Theoretical Program Contents

- IMRT Precautions and Concerns
 - IMRT Dose Delivery Techniques
 - Inverse Planning; Optimization algorithm and cost function
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- Patient-Specific QA
 - IGRT Technologists
 - IGRT Correction Strategies; Online and Offline
 - Adaptive Treatments; Concepts and Approaches MR-Guided Radiotherapy
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- Management of Respiratory Motion
 - Uncertainties and Margins in Radiotherapy
 - Image Registration Protocols for Different Treatment Sites
 - IGRT Dose
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- Mechanical and Dosimetric Tests
 - Small Field Dosimetry
 - Flattering Filter Free Beams
 - TPS Commissioning and end-to-end Test
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- TPS Commissioning and end-to-end Test
 - IGRT Protocols and Registration Techniques for Different Treatment
 - Patient Safety Consideration in IMRT
 - Managing Potential Risks and Complications on IMRT
 - Multidisciplinary Collaboration in IMRT Treatment



Theoretical Exam

Following the Video Lectures, an Examination will be administered to evaluate participants' comprehension and preparedness for the on-site sessions. The exam will consist of multiple questions from the Prepared videos, by ISCO Association.

On-Site Course Program

Day 1

9:00 10:00	Head and Neck IMRT; OAR Delineation
10:00 11:00	Prostate IMRT; OAR Delineation
11:00 11:15	Coffee Break
12:15 13:15	Patient Positioning and CT Simulation Protocol for H&N IMRT
13:15 14:15	Lunch Break
14:15 15:30	Patient Positioning and CT Simulation Protocol for Prostate IMRT
15:30 16:30	Patient Positioning and CT Simulation Protocol for Left Breast IMRT

Day 2

9:00 10:00	Surface-guided applications in IMRT
10:00 11:00	Practical Session on multi-modality imaging registration
11:00 11:15	Coffee Break
11:15 13:15	Practical Hands-On Session on Nasopharynx, Prostate, and Left Breast + Lymph Node Cases
13:15 14:15	Lunch Break
14:15 15:15	Practical session on IGRT techniques
15:15 16:15	Offline CBCT review for two Nasopharynx + Lymph node Cases
16:15 17:15	Offline CBCT review for two Prostate + Lymph node Cases

Day 3

9:00 10:00	Practical session on MLC QA procedures for IMRT/VMAT
10:00 11:00	Patient-Specific QA for Nasopharynx + Lymph node case
11:00 11:15	Coffee Break
11:15 12:15	Patient-Specific QA for Prostate + Lymph node case
12:15 13:15	Case studies and group discussions on patient safety
13:15 14:15	Lunch Break
14:15 15:15	Evaluation of treatment outcomes in IMRT
15:15 16:15	Assessment of plan quality and plan evaluation metrics

Faculty:

The faculty includes esteemed **Turkey Radiation Oncology Association (TROD)** members and an expert team of physicians, bringing years of clinical experience and expertise to the training programs. Their dedication ensures participants receive unparalleled guidance and mentorship.

Faculty Members



Prof. Dr. Uğur Selek

Head of TROD
Association



Prof. Dr. Yasemin Bölükbaşı

Audit Committee Member
of TROD Association



Assoc. Prof. Duygu Sezen

Department of Radiation
Oncology Koç University
Hospital



Dr. Şükran Şenyürek

Department of Radiation
Oncology Koç University
Hospital



Dr. Nilüfer Durankuş

Department of Radiation
Oncology Koç University
Hospital



M.P. Ali Ihsan Atasoy

Department of Radiation
Oncology American Hospital

Certification:

Upon successful completion of the course and its assessment, participants will receive a certificate issued by the hosting University Hospital which is co-endorsed by the Iranian Society of Clinical Oncology. This dual endorsement reflected the special collaboration and recognition provided by the association, further enhancing the certificate's professional value

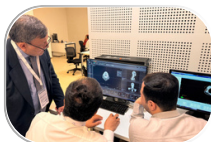


Thank you for your understanding, and we look forward to welcoming you to the training program.

Note:

For more information about the registration and cost, please fill out the registration form on the website.

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Contact Information

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