Regional Training Course on Stereotactic Body Radiotherapy (SBRT) Applications

Hosted by

Collaborating Centre-Anchor Centre for Rays of Hope

North Estonia Medical Center
Tallinn, Estonia

11-13 December 2025

Ref. No.: TN-RER6043-2504728

Information Sheet

Purpose

The purpose of the regional training course is to address gaps in the practice of Stereotactic Body Radiotherapy (SBRT) with a specific focus on the management of lung, prostate, pancreas and other oligometastatic diseases. The course aims to bring together multidisciplinary teams consisting of radiation oncologist, medical physicist and radiotherapy technologist to discuss general and specific issues related to each profession. The course will cover both theoretical and practical aspects including contouring, treatment planning and treatment delivery aspects. It covers the following topics:

- Radiobiology of hypofractionation
- Patient positioning and immobilization, Role of IGRT and SGRT
- Role of multi-modality imaging
- Target definition
- Motion management and delivery accuracy
- Dose prescription and treatment planning
- Machine and patient specific QA
- Dosimetry audits
- Case studies

Working Language(s)

The working language(s) of the event will be English.

Deadline for Nominations

Nominations received after **Oct 31, 2025,** will not be considered.

Project Background

SBRT is a type of radiation therapy where the radiation beams are carefully targeted to focus the tumor, with a very high dose of radiation. SBRT is used to treat tumors in the lungs, spine, liver, neck, lymph nodes or other soft tissues. It is a complex process, as it uses 3D or 4D for target delineation, treatment delivery and uses high dose peer fraction. The quality and accuracy are crucial, to maintain the treatment efficacy, otherwise, it may introduce unnecessary complications and side effects. Therefore, SBRT requires specialized knowledge and skills. However, access to training is limited to radiotherapy professionals, especially from LMICs. In addition, very often, training courses that are offered by leading institutions in HICs are not tailored to realities of SBRT practice in LMICs.

In April 2024, the IAEA, in collaboration with the WHO and Rays of Hope Anchor Centre Ege University Faculty of Medicine Department of Radiation Oncology, organised a regional workshop on the status of paediatric radiotherapy services. Development of structured regional training course on SBRT was indicated as one of strategic priority actions for improvement of radiotherapy services in the region. Regional trainings are implemented through RER6043 “Supporting Member States in Enhancing Cancer Management through Rays of Hope”, which supports education and training of radiotherapy professionals, including Anchor Centres in the region.

Scope and Nature

The comprehensive course will cover all aspects of the SBRT, which are relevant for optimal clinical practice for specific disease sites such as lung, prostate and oligo metastatic diseases. It will include both theoretical and practical sessions, which include contouring workshops, Dosimetry measurements, patient specific quality assurance and delivery related aspects.

Participation

Regional training course will be available for clinically active SBRT teams in all Member States participating in RER6043 and or RER6040. The team must include a radiation oncologist, a medical physicist involved in SBRT and a RTT practising SBRT. Because of highly interactive nature of the training course, the number of participants is limited to 45 persons. The course will be repeated every year, so all Member States-participants of the project will have an opportunity to train in SBRT throughout the duration of the project.

Participants' Qualifications and Experience

Teams of radiotherapy professionals (radiation oncologists, medical physicists, RTTs), actively involved in SBRT are eligible for participation. Up to 3 professionals per team can apply, with at least one member per discipline. Participants must have sufficient proficiency in English.

Priority will be given to complete team applications and high-patient volume centres.

Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (https://intouchplus.iaea.org) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (https://websso.iaea.org/IM/UserRegistrationPage.aspx) before proceeding with the event application process below.

2. On the InTouch + platform, the candidate must:
    a. Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents;
    b. Download and complete the Designation of Beneficiary and Emergency Contact Form, and upload to InTouch+ ('Profile' tab under the personal section) specifying the document name. If already provided, kindly discard this step; and
    c. Search for the relevant technical cooperation event (**EVT2504728**) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

NOTE: Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline.

For additional support on how to apply for an event, please refer to the InTouch+ Help page. Any issues or queries related to InTouch+ can be addressed to InTouchPlus.Contact-Point@iaea.org.

Should online application submission not be possible, candidates may download the nomination form for the training course from the IAEA website.

NOTE: A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for a) events with a duration exceeding one month, and/or b) all candidates over the age of 65 regardless of the event duration.

Administrative and Financial Arrangements

Nominating authorities will be informed in due course of the names of the candidates who have been selected and will at that time be informed of the procedure to be followed with regard to administrative and financial matters.

Selected participants will receive an allowance from the IAEA sufficient to cover their costs of lodging, daily subsistence and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station through the IAEA's travel agency AX Travel Management, or a travel allowance, or they will be reimbursed travel by car/bus/train in accordance with IAEA rules for non-staff travel.

Disclaimer of Liability

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in approving his/her participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

Note for female participants

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

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