



Course Overview:

The SBRT has been used for tumors located in the lung/thorax, thyroid, pancreas, liver, colon, uterus, pelvis, sacrum, kidney, prostate, and thyroid. SBRT's most important features and reported advantages compared to other forms of external beam radiation therapy (EBRT) are the use of high-dose radiation, the delivery of one to five fractions within a few days, decreasing the overall length of treatment, and improved treatment response. SBRT can be difficult to administer because of interfraction or intrafraction movements within the body. Hence SBRT practitioners need to undergo training and acquire the right skills to practice this procedure. SBRT can be delivered by dedicated and non-dedicated linear accelerators. Hence, hands-on practice on the equipment is also essential for aspiring practitioners. In this course, we cover all aspects of SBRT and all sites.

The course is offered in bundled form, comprising of 6 modules: (i) Basic Module plus Physics, (ii) Immunorad - Genomics and Radiomics (iii) Craniospinal - Head & Neck and Soft-tissue, (iv) Thoracic - Breast, Lung and Thyroid, (v) Abdomen- Liver, Biliary and Colon, (vi) Pelvic - Urological, Prostate, Rectum and Uterine, along with the opportunity for hands-on training at HCG Cancer Hospitals, Bengaluru, India. All students and practitioners in Oncology and allied areas, including Medical, Surgical, and Radiation Oncologists can benefit from this course and improve their clinical practice and treatment outcomes.



Course Mentor
Dr. Ramesh S Bilimagga
Radiation Oncologist



Course Mentor
Dr. Belliappa
Radiation Oncologist



Course Director
Dr. P S Sridhar
Radiation Oncologist



Course Faculty
Dr. Manoj Gupta
President Elect - AROI



Course Faculty
Dr. Anusheel Munshi
Manipal Hospitals



Course Faculty
Dr. Lohith Reddy
Radiation Oncologist



Course Faculty
Dr. A Pichandi
Director - Central Physics

Learning Objectives:

This course introduces stereotactic radiotherapy and radiosurgery for both cranial and extra-cranial sites. We also cover the clinical rationale, methods of planning, immobilization, and the important underlying physical principles is described.

Learning Outcomes:

- Build a team to implement and practice SBRT
- Understand the technical and physical requirements for SBRT
- Know the clinical rationale of SBRT and its limitations
- Understand the radiobiological basis of very high fraction doses
- Know the details of indication, practice, and outcome of SBRT for early-stage NSCLC
- Know the current clinical evidence for SBRT in the various clinical indications

Learning Methodologies:

- Online Lectures (pre-recorded and live)
- Online Live Interactive Sessions
- Learning Materials will be available through Learning Management System (includes PPTs, Notes, Further Reading, Videos, etc.)
- Hands-on Training

Course Contents, Structure and Duration:

Module 1 - Basic Module plus Physics

Optional Modules (Any two modules are a must)

Module 2 - Immunorad - Genomics and Radiomics

Module 3 - Craniospinal - Head & Neck and Soft- tissue

Module 4 - Thoracic - Breast, Lung, and Thyroid

Module 5 - Abdomen - Liver, Biliary and Colon

Module 6 - Pelvic - Urological, Prostrate, Rectum, and Uterine

- Each Module consists of 3-4 sessions (each session consists of 90 minutes online lecture), including a live interactive session with the Course Director and Faculty and a minimum of 1 Hour of self-learning through the online educational materials to be provided by GHA.
- A learner must learn for Module 1 (Basics of SBRT) plus at least two of the 5 Optional Modules.
- Participants opting for all 6 modules to be covered in 09 - 10 weeks, will be offered 5 days of hands-on training at reputed training centres (Mumbai and Bengaluru)

Eligibility Criteria:

All professionals in the field of radiation oncology who are involved in the clinical practice of SBRT and cranial SRS at any point in the treatment chain: radiation oncologists, physicists, and radiation therapists (RTTs) with a dedicated focus on SBRT and SRS. The course targets individuals who are currently at the planning stage of establishing a clinical stereotactic program, and those who already have a current stereotactic practice.

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Certification
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