



RTT Pre-meeting course
Clinical implementation of surface guided radiotherapy (SGRT)
ESTRO2021, 27-31 August 2021, Madrid, Spain

Friday, 27 August 2021 from 08:30-17:00

Course Directors:

Filipe Moura, Radiation Therapist, Hospital CUF Descobertas (PT)
Philipp Freislederer, Medical Physicist, LMU Munich (DE)

Course aim:

The usage of surface guided radiation therapy (SGRT) has increased rapidly in clinics all over Europe and worldwide. This course aims to demonstrate essential knowledge of the SGRT in current clinical routine from patient positioning & monitoring, recommendations for workflows and QA routines. This course will provide participants a wide range of tools and strategies, for the implementation and management of SGRT systems, as well as the optimization of current protocols and its impact on daily practice.

Learning objectives

- Physical principles and system properties
- Basic and advanced QA methods
- Guidance for implementing SGRT systems
- Recommendations for workflows: treatment sites
- Tools and optimization methods
- Patient positioning and motion control: treatment sites
- SGRT for markerless and tattooless RT
- Gating and 4D techniques: Breathing control
- SGRT for SRS/SBRT

Who should attend?

Primarily RTTs & Physicists working or planning to work with any SGRT system. Physicians clinically involved with SGRT and other professionals with particular interest on this technology.

Speakers & Panelists:

- Filipe Moura, Radiation Therapist , Hospital CUF Descobertas (PT)
- Philipp Freislederer, Medical Physicist, LMU Munich (DE)
- Christoph Bert, Medical Physicist, Uni-Klinikum Erlangen (DE)



- Malin Kügele, Medical Physicist, Skåne University Hospital (SE)
- Sophie Perryck, Radiation Therapist, University Hospital Zurich (CH)
- Stefanie Corradini, Radiation Oncologist, LMU Munich (DE)
- Michel Oellers, Medical Physicist, MAASTRO (NL)
- Gavin Lawler, Oncology/Radiation Therapy Research Specialist, Beacon Hospital (IE)
- Vania Batista, Medical Physicist, Universitätsklinikum Heidelberg (DE)
- Francesco Fracchiolla, Medical Physicist, Centro di Protonterapia di Trento (IT)
- Jeremy Hoisak, Medical Physicist, UC San Diego - School of Medicine (US)

Programme

Time slot	Title	Teacher
08:30	Introduction	Filipe Moura & Philipp Freislederer
08:45	Technological aspects – behind the scenes	Christoph Bert
9:10	SGRT – historical perspective	Malin Kügele
9:35	AlignRT Advance – Clinical evidence built on experience, gateway to new horizons	VisionRT
9:40	The future of Marker and Tattooless	Sophie Perryck
10:05	SGRT developments - Clinical perspective	Stefanie Corradini
10:30	Latest generation SGRT for Ring Gantry	C-RAD
10:35	COFFEE BREAK	
11:10	4D dynamic DIBH for left breast	Filipe Moura
11:35	Submillimetric accuracy on intracranial lesions	Michel Oellers
12:00	SGRT implementation and usage in everyday clinical practice	Gavin Lawler
12:25	IDENTIFY - Reproduce each unique patient's set up, position, and treatment while supporting patient safety	Varian
12:30	LUNCH	
14:00	SGRT Commissioning & Routine QA	Vania Batista
14:25	Surface guidance applications in particle therapy	Francesco Fracchiolla
14:50	Update on European guideline process	Philipp Freislederer
15:15	Future Advancements of the Brainlab 4D SGRT Technology	Brainlab
15:20	COFFEE BREAK	
15:50	Innovation and development	Jeremy Hoisak

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16:15	Q&As	All
16:45	Final assessment - WEB based questionnaire	All
17:00	Close of pre-meeting	