2022
SGRT ANNUAL EUROPEAN MEETING
YOUR SGRT JOURNEY

A JOURNEY WELL-WORTH TAKING:
AN OVERVIEW OF THE 2022 MEETING OF THE SGRT COMMUNITY

More than 500 clinical experts took part in "Your SGRT Journey," the 2022 annual meeting of the SGRT Community, which took place in London on December 1st and 2nd.

This was the biggest gathering ever of clinicians sharing their knowledge about Surface Guided Radiation Therapy, which has become a key part of modern radiotherapy best practice. Representatives joined online and in-person from more than 50 countries, taking part in more than 40 clinical presentations on virtually every aspect of SGRT. Topics covered how SGRT can help with clinical efficiency, accuracy across different treatment sites, going tattoo and mark-free with SGRT and more.

Some highlights:

SBRT

Daniel Nguyen, Medical Physicist from Orlam Radiotherapy Lyon-Mâcon, France presented on the clinical progress and value of AlignRT® InBore™ for lung stereotactic body radiotherapy treatments, on Halcyon liner accelerators. His research found that DIBH with the InBore solution reduced intrafraction tumour motion to <2 mm, and enabled reproducible lung SBRT in DIBH treatments.

Chelsea Carnall and **Ellen Dear**, Senior Regional Therapeutic Radiographers from GenesisCare in the UK, reported that implementing an end-to-end SGRT workflow for Breath-hold SABR patients appeared to provide precise set-up and accurate tracking of a consistent breath hold. Their data showed that all CBCTs, including the initial set up CBCT, showed <1mm shifts and <1 degree rotations. As AlignRT detected patient movement, radiographers were able to pause treatment, re-image and assess positioning before any treatment was delivered inaccurately. The shift was corroborated with CBCT and treatment continued to be delivered with complete accuracy.
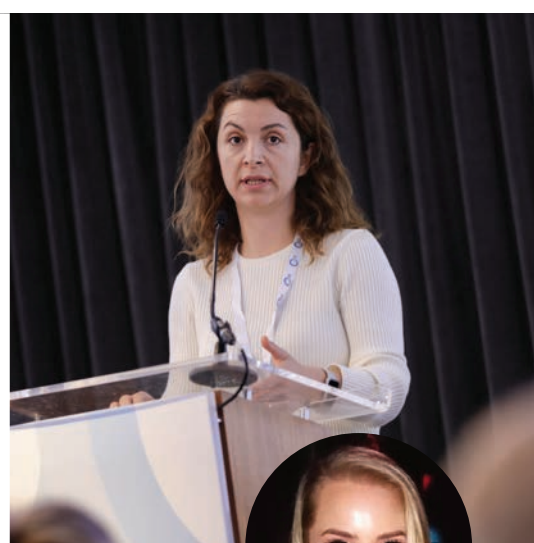
Similar accuracy results for SBRT were presented by **Dr Menekşe Turna** from Anadolu Medical Center, Turkey and **Siobhan McCarthy**, Clinical Specialist Radiation Therapist at Bons Secours Radiotherapy, Cork, in Partnership with UPMC Hillman Cancer Centre (Ireland).

EFFICIENCY & ACCURACY

Daniel Bailey, Director of Physics and Dosimetry, Sarah Cannon Cancer Institute, USA delivered one of the most impassioned presentations of the event, arguing that the implementation of SGRT should be seen as essential to patient safety: "While you're watching your CCTV monitors, you're not seeing that 1 mm twitch." In his talk on *Validating the Accuracy, Value, and Investment in SGRT* he concluded that "investment in SGRT is investment in the quality of every treatment and the safety of every patient."

David Nguyen, Radiation Therapist from Prince of Wales Hospital, Sydney Australia presented his research quantifying that SGRT led to a statistically significant reduction in the number of repeat EPI's, compared to tattoo-based set-ups amongst breast patients. His findings emphasized the important role SGRT can play in improving the accuracy for all breast radiotherapy treatments.

And **Amy Shaw** and **Lauren Peares**, Therapeutic Radiographer's from University Hospital Southampton NHS Foundation Trust, UK received an award (voted on by their peers) for "best presentation" for their talk: Measuring and Improving Radiotherapy Delivery Efficiency with SGRT Implementation, during which they showed remarkable time-savings efficiencies (without loss of accuracy or safety) at their clinic, since their implementation of SGRT. The team saw a 61% time saving for prostate cases and 50% for free breathing breast treatments.

INNOVATIONS IN SGRT:

Another highlight came from **Mike Tallhamer**, Chief of Medical Physics at Centura Health in Denver, Colorado, who gave a rapid fire presentation on the evolving landscape of surface guidance radiation therapy. "It's not that we've redefined SGRT," he told the audience. "Maybe it's that SGRT has redefined radiation therapy." He then showed an overview of how SGRT had evolved from 'just' motion management to improving safety and effectiveness every stage of the RT workflow from Patient ID, Sim, Planning, Safety Mapping, Dose Delivery and more.

The last (but certainly not least) presenter of the event was **Helen Convery**, Senior Dosimetrist at Raigmore Hospital, Scotland who presented findings from her experiences as an early adopter of MapRT - the latest SGRT innovation from Vision RT. According to her study, MapRT was able to predict collisions, optimize gantry and couch angles, reduced the risk of having to re-CT and reduced the need for 'dummy run' appointments.

Thank you to all our speakers and poster presenters for helping create an unforgettable peer to peer event.

Click here for **RECORDED PRESENTATIONS**, **PICTURES**, and **POSTERS**.

The next SGRT Community meeting will be held on May 11th and 12th of 2023 in New York (and online). We invite you to submit on any SGRT-related topic. Travel grants are available for successful submissions. **Find out more, and submit your abstracts here.**