

Your next stop on  
**YOUR SGRT JOURNEY**



**SGRT for clearance mapping and other innovations at SGRT USA**



**INTRO:**

This year's US SGRT annual meeting, **"The Next Stop on Your SGRT Journey"** provided a platform for leading experts from across the world and new users to share knowledge, best practices and explore the latest advancements in Surface Guided Radiation Therapy.

Presentations covered a wide range of topics, including how SGRT can help with clinical efficiency and time-savings, accuracy across different treatment sites, going tattoo and mark-free with SGRT and more.

The event facilitated networking and collaboration among the full spectrum of users, paving the way for future breakthroughs in the use of SGRT.

In addition to the usual wealth of peer-to-peer learning, the meeting highlighted new innovations within SGRT which generated great interest among attendees.

**SGRT: MOVING BEYOND MOTION MANAGEMENT**

**Looking Forward: Use of Surface Guidance Throughout the Treatment Journey**

**Daniel Bailey, PhD**

Daniel Bailey, Head of Physics from Sarah Cannon Cancer shared how expanding the use of SGRT throughout the treatment journey can improve patient quality and safety. He concluded that, every patient every fraction was just the beginning and how "vastly improved the quality and safety experience of our patients can be with the implementation of SGRT".



**SGRT in Treatment Planning: Surface Guided Clearance Mapping**

**David Parsons, PhD**

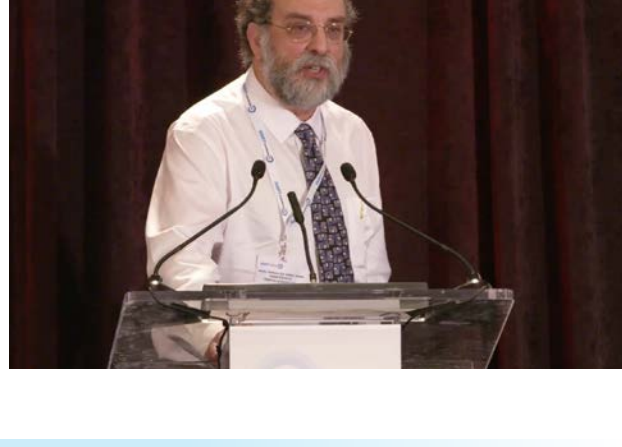
The latest advancement within SGRT was demonstrated by David Parsons, from University of Texas Southwestern. Tested in a clinical setting, David and his team have shown how a new clearance mapping tool, MapRT, can be used to predict collisions and clearances in radiation therapy. Treating 4000+ patients a year, the time-saving impact was a huge benefit for the clinic, with one case study finding that MapRT could've reduced the collision check time from 2 days to several minutes.



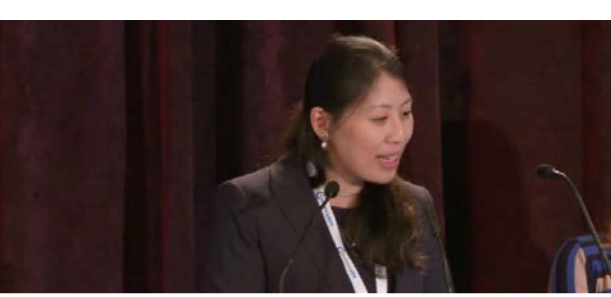
**Monitoring Beam & Position with Cherenkov Imaging**

**David Gladstone, ScD, DABMP, FAAPM**

David Gladstone from the Geisel School of Medicine at Dartmouth, presented on the clinical progress and value of monitoring the beam dose delivery with DoseRT. Combining Cherenkov Imaging with AlignRT to provide real-time visualization of dose delivery and patient positioning, he concluded that DoseRT has the ability to improve treatment quality and help reduce clinically significant errors.



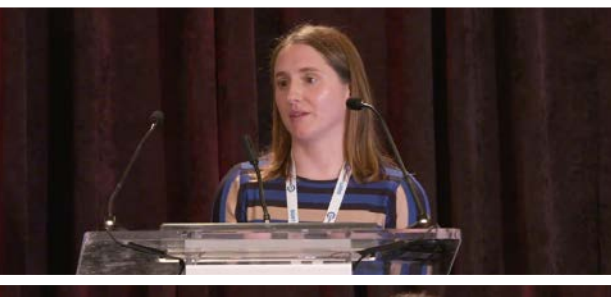
**SGRT FOR EVERY PATIENT, EVERY FRACTION:**



**Surface Guidance for SBRT Treatments: Benefits & Optimal Workflow**

**Mai Anh Huynh MD, PhD and Lauren Conway MS, RT(T)**

Mai Anh Huynh and Lauren Conway from Dana-Farber Cancer Institute / Brigham Cancer Center shared their findings on SGRT for SBRT treatments. The department successfully transitioned to a tattooless workflow for non-spine bone SBRT, utilizing SGRT for set up, imaging and real-time intrafraction motion monitoring. Implementing an SGRT workflow was associated with significant reductions in treatment time and CBCT imaging required for rib SBRT and reduced treatment times for acetabular and ilium SBRT.



**SGRT for Trigeminal Neuralgia & Arteriovenous Malformation (AVM) Treatments**

**Mike Tallhammer, DABR**

Mike Tallhamer, Chief of Medical Physics from Centura Health, presented on SGRT for Trigeminal Neuralgia & Arteriovenous Malformation (AVM) Treatments and said "SGRT systems are more than capable to do these functional radiosurgery cases and do them extremely quickly compared to the other modalities".



**MAXIMIZING EFFECTIVENESS AND EFFICIENCY:**

**Using Postural Video to Reduce Positioning Errors & Repeat Imaging**

**Carmen Parsels, BS, RT(R)(T)**

Carmen Parsels, Senior Radiation Therapist from Ohio State University, reported that implementing Postural Video for breast treatment, helped aid the final adjustment before imaging, in a game-changing way. Findings from her comparison study showed that repeat imaging reduced by 7% when using Postural Video.



**Staffing Challenges: Implementation in a Small, Rural Alaskan Radiation Oncology Clinic**

**Libby Torresani, BS, RT(T)**

"We have significantly reduced repeat imaging utilizing with AlignRT," said Libby Torresani from Peninsula Radiation Oncology Center. Delivering one of the most impassioned presentations of the event, Libby's findings showed that SGRT has significantly improved the department's efficiency, time-saving and accuracy, as well as RT(T) job satisfaction and patient satisfaction.



**Our Experience: Five-fraction Breast Cancer Treatment**

**Brooke Horning, BSRT(R)(T)**

Another highlight came from Brooke Horning, Photon Team Lead Therapist at Mayo Clinic Phoenix, who presented on Five-fraction Breast Cancer Treatment. In the department's experience, using SGRT helped significantly with patient satisfaction, stating that patient tolerance of radiation treatments had improved and there is minimal skin reaction 2 weeks after treatment.



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

Click here for **RECORDED PRESENTATIONS.**

The next SGRT Community meeting will be held on Nov 30<sup>th</sup> - Dec 1<sup>st</sup> in London (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.**