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2019 RSS Annual Scientific Meeting
March 21-23, 2019
San Diego, CA

RSSearch® Patient Registry 2017—A new beginning!

The RSSearch® Patient Registry continues to thrive with the use of the new Vision Tree (VTOC) 360 platform and has now exceeded 20,000 enrolled patients. Since April 14, 2017, over 1,650 new patients treated with stereotactic radiosurgery (SRS) or stereotactic body radiotherapy (SBRT) have been enrolled in RSSearch. The number of participating centers continues to increase with 42 centers worldwide, including centers in the US, Australia and Germany. Since the Go Live of the VTOC platform, the number one enrolling center was Barnabas Health—Toms River, NJ. You can see the top 10 enrolling listed below. Congratulations to the team at Barnabas Health and thank you to all the participating centers and patients that have made RSSearch a continued success.

Top 10 Enrolling Centers In 2017

1. Barnabas Health, Toms River, NJ
2. Sir Charles Gairdner Hospital, Perth, Australia
3. Doctors Hospital of Augusta, Augusta, GA
4. Southeast Georgia Health System, Brunswick, GA
5. Pennsylvania Hospital, Philadelphia, PA
6. Franklin Square Hospital Center, Baltimore, MD
7. St. Mary's Medical Center, Huntington, WV
8. Mission Hospitals, Asheville, NC
9. St. Francis Hospital, Memphis, TN
10. St. Anthony, Oklahoma City, OK

A 2017 end of the year review of the aggregate data in RSSearch was conducted on the subjects that have been enrolled using the VTOC system.

The top five treatment locations reported in RSSearch in 2017 were lung/bronchus (34%),

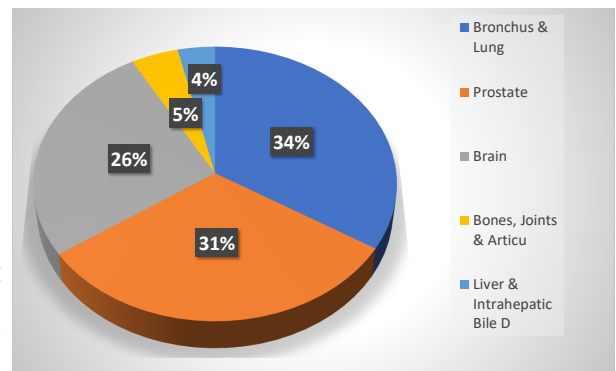


Figure 1. Top 5 SRS/SBRT treatment locations in RSSearch between April 14, 2017—January 18, 2018.

prostate (31%), brain (26%), bones/joints (5%) and liver (4%), (Figure 1). Other treatment locations rounding out the top 10 were pancreas, lymph nodes, head and neck, gynecological and kidney.

The number of men (52%) and women (48%) were closely distributed. The most common type of lesions were metastatic (43%) and malignant primary lesions (38%). Other types of lesions included benign lesions (9%), recurrent lesions (5%), trigeminal neuralgia (TN; 3%) and arteriovenous malformations (AVM; 1%). The median SRS/SBRT dose delivered to all lesions was 30 Gy (range, 5—79 Gy) and the median number of fractions was 3 (range, 1—6).

The top five pathological types, representing 775 of all subjects enrolled were adenocarcinoma (37%), malignant neoplasm (29%), adenocarcinoid tumor (16%), squamous Cell carcinoma (11%), and non-small cell carcinoma (7%).

Continued from page 1.

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The top five referral sources were from medical oncologists (33%), followed by urologists (26%), pulmonologists (10%), neurosurgeons (8%), and radiation oncologists (6%). These were followed by Hematology/Oncology, Cardiothoracic Surgeons, Other, Primary Care/Family Practice and Neurologists, (Figure 2). Self referral represented less than 1% of the patients enrolled.

The median age range of subjects treated was from 61—78 with the oldest patient treated being 95 (2).

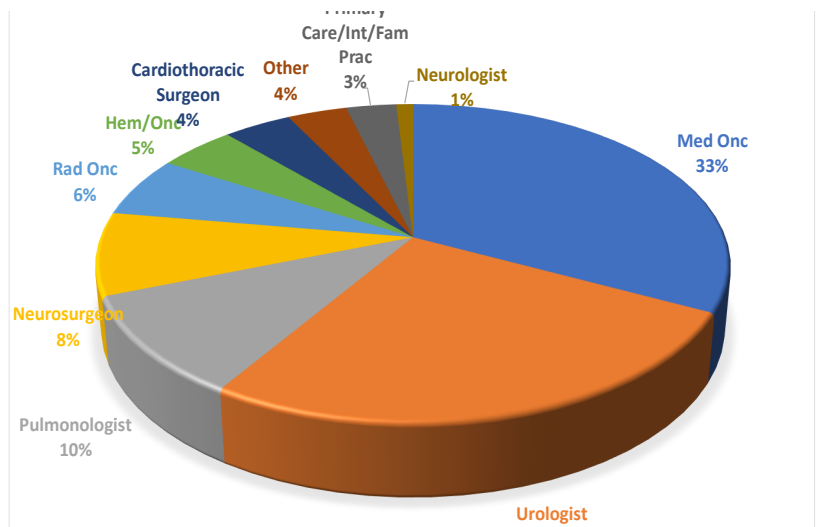


Figure 2. Referral sources for patients enrolled in RSSearch between April 14, 2017—January 18, 2018.

Sir Charles Gairdner Hospital publishes their experience using RSSearch

The benefits of participating in the RSSearch Registry were published on June 29, 2017 by the team from Sir Charles Gairdner Hospital (SCGH) in Perth, Western Australia. The study, “Yahya A, Arneric E, Kernutt E, et al. (June 29, 2017) Participating in an International Stereotactic Radiotherapy Patient Registry: The Establishment of Data Collection Pathways. *Cureus* 9(6): e1413. doi:10.7759/cureus.1413”, aimed to describe data collection pathways and the challenges of recording clinical data, experienced at their academic comprehensive cancer center.

Sir Charles Gairdner Hospital was the first hospital in Australia to obtain a CyberKnife. Being a state facility presents challenges of its own, among them, justifying such a big expenditure for the state, the hospital and the Radiation Department. In order to accurately gather information about the patients treated with the new technology, the team at SCGH had to decide how they were going to organize the data. In their search, after looking at many databases and registries, the team chose the RSSearch Registry. Learn about the experiences and the challenges they faced, the processes they went through and the solutions they have found by accessing the above mentioned article.

Learn more about the team at Sir Charles Gairdner Hospital, what has transpired since the writing of that first article and what they are planning for the future in this issue’s Coordinator’s Corner.



Coordinators Corner: Meet RSSearch® Participants

In April of 2014, the Department of Radiation Oncology, Sir Charles Gairdner Hospital (SCGH) in Perth, Western Australia became both, the first site in Australia to implement the CyberKnife Radiosurgery System and to commence participation in the RSSearch Patient Registry. Eva Arneric, a Senior Clinical Trial Coordinator is managing the Patient Registry Project together with the Clinical Trials & Research Unit (ROCTRU) team, led by Radiation Oncologist Principal Investigators Dr Sean Bydder and Dr Colin Tang.

The ROCTRU Team has since enrolled over 900 patients into the RSSearch Patient Registry. Institutional Ethics approval allowed CyberKnife patients over the age of 18 to be approached by research staff to request permission for their data to be included in the Registry. Since joining the RSSearch Patient Registry, our data collection pathways have had to evolve to continue to meet the department's needs. Senior Clinical Trial Coordinator Aylin Yahya and the ROCTRU team described the changes and the practical challenges we experienced in a paper entitled: *"Participating in an International Stereotactic Radiotherapy Patient Registry: The Establishment of Data Collection Pathway"* by Yahya A, Arneric E, Kernutt E, et al. (June 29, 2017) *Cureus* 9(6): e1413. doi:10.7759/cureus.1413, <https://www.cureus.com/articles/6496-participating-in-an-international-stereotactic-radiotherapy-patient-registry-the-establishment-of-data-collection-pathways>

The ROCTRU Team was very excited by the launch of the VisionTree Optimal Care® 360 platform including the secure Patient Portal and new FastTrack features. We were eager to implement these features to better engage our patients in their disease management and treatment journey through the Radiation Oncology Department. We have collaborated with Iman Martin, Director of Implementations, VisionTree Software Inc., to develop the Templates sets for our patients. It has been a challenging but very rewarding experience - learning a new system and customising it to suit our local needs. Our team would like take this opportunity to thank Iman and the VisionTree Team for their ongoing support.

Following a successful grant application, the ROCTRU Team plans to investigate the use of the Patient Portal as part of the VTOC system in the pilot project entitled: *"A Feasibility Study to Investigate the use of the VisionTree Optimal Care™ (VTOC) Patient Reported Outcomes Portal for Patients Receiving CyberKnife Treatment"*. This pilot project will be the first time our department will investigate the collection of electronic Patient Reported Outcomes (ePRO) and we look forward to commencing this project shortly. If it proves feasible, the goal is to introduce standard collection of ePRO data by implementing the use of the Patient Portal for all CyberKnife patients participating in the RSSearch Patient Registry at SCGH in the future.



The next **Radiosurgery Society® Annual Scientific Meeting** will be held March 21-23, 2019, at the Sheraton San Diego Hotel and Marina in beautiful and warm San Diego, CA. Planning has begun and more information will be rolling out over the next few months.

2019 Program Highlights:

- SRS/SBRT Clinical & Physics Presentations
- Current and Future Approaches to Combining Immunotherapy and Radiosurgery
- The ever popular, informative and entertaining Showdown Debates
- Radiosurgery for Functional Disorders
- Performance & Quality Improvement Session (PQIS)
- Exhibition Presentation Arena: Learn about the latest products and technologies

Important Dates:

- March 2018: Registration Opens
- March—April 2018: Early Bird Registration Rates
- June—August, 2018: Abstract Submission Period

RSS Academic Sponsors & RSSearch participants





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Bridging the Gap

RSSearch® Patient Registry Newsletter

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Highlights from the 2017 RSS Annual Scientific Meeting

Over 450 healthcare professionals from around the world attended the 2017 RSS Annual Scientific Meeting on November 2-4, 2017 in Las Vegas, NV. Attendees experienced 3 days of didactic lectures, hands-on-clinical workshops and expert round-table discussions focusing on the clinical practice, safety and quality assurance methods of SRS/SBRT.

Over 100 abstracts were presented as oral and poster presentations. This year, the RSS awarded over \$7000 in travel grants and awards presented to residents and meeting attendees based on their excellent research, physics and clinical work in SRS/SBRT. Presentations from the meeting will be available in the Members Section of the RSS website.

Meeting highlights included the thought-provoking and entertaining Showdown Debate Session: "Clash of the Titans", where experts debated the pros and cons of stereotactic radiosurgery for the treatment of advanced pancreatic cancer, recurrent head and neck cancer and primary hepatocellular carcinoma while dressed in Greek and Roman character costume. Dr. Mansoor Ahmed from the National Cancer Institute chaired the session "Immuno-biology of Radiotherapy and Clinical Trial Concepts" with expert speakers Betsy Repasky, Chandan Guha, Robert Timmerman and Elad Sharon. In collaboration with ACRO, Drs. Lawrence Kleinberg and James Welsh discussed SRS/SBRT in the context of Re-irradiation. New this year were dedicated sessions for nurses and dosimetrists and "Meet the Experts" sessions for residents.

Over 200 physicists and physicians participated in the Lung Cancer Dosimetry Plan Study. Expert panelists Drew Moghanaki, MD, Ben Slotman, MD PhD, Anand Swarminath, MD and Brian Wang, PhD challenged participants to contour and develop treatment plans for a lung cancer case based on defined criteria. Results were presented at the meeting and discussed at a post-meeting RSS Webinar. Members can access the recorded webinar on the RSS website and detailed study information can be accessed on the ProKnow Systems website.

A special thank you to our Sponsors and Exhibitors for their continued support.

the Radiosurgery Society®, PO Box 5631, San Mateo, CA 94402 4
Telephone: (408) 385-9411; Visit: <http://www.therss.org>



Congratulations to the following meeting attendees who received the awards for their excellent research and work in the field of SRS/SBRT:

Best Medical SRS/SBRT Resident Award:

Kiran A. Kumar, MD

Thomas M. Churilla, MD

Katelyn M. Atkins, MD, PhD

Diane C. Ling, MD

Cheng Cheng Gui, BSE

Standard Imaging Best Resident Physics Award:

Konstantin Kovtun, MD

Mark Hwang, MD, PhD

Mareike Held, PhD

RSS Clinical Presentation Award:

Kiran Kumar, MD

RSS Physics Presentation Award:

Sua Yoo, PhD

RSS Poster Presentation Awards:

Slawomir Blamek, PhD

Andrew McDonald, MD

Christopher Serago, PhD