The Radiosurgery Society® to Co-Host a Workshop on High-Dose, Ultra-Dose-Rate and Spatially Fractionated Radiotherapy

Presentations to explore the biology, physics and results of innovative techniques to treat locally advanced tumors including GRID/Lattice, Flash and Microbeam Radiotherapy

SAN MATEO, Calif. (PRWEB) July 03, 2018 -- The Radiosurgery Society (RSS) will co-host a one-day workshop focused on improving outcomes in locally advanced tumors using innovative techniques such as high-dose, ultra-dose-rate and spatial fractionated radiotherapy. The workshop, co-sponsored with the National Cancer Institute (NCI) part of the National Institutes of Health (NIH), will be held on Tuesday, August 21, 2018, in Bethesda, MD, and related abstracts are currently being accepted.

Improving outcomes in locally advanced tumors is a challenge in the optimal use of surgery, radiation therapy and systemic treatment. Failure to achieve initial local control and control of a local recurrence result in an extremely poor quality of life.

Over the last several decades, many institutions within the United States, Europe and Asia have begun using spatially fractionated radiotherapy – also known as GRID, where multiple beams of radiation are delivered in a grid pattern – in a single dose of 20 Gy to patients with bulky advanced tumors just prior to a full course of chemo-radiation (conventional 2 Gy fractions) with therapeutic or palliative intent or as salvage therapy.

Encouraging results to date, particularly with tumors that are believed to be radio-resistant to conventional fractionated radiotherapy, have prompted further examination of the biology, physics, clinical rationale and supporting data surrounding these new techniques.

“As an organization at the forefront of radiotherapy, RSS is committed to exploring the most promising biologic and physics innovations,” said Shalom Kalnicki, MD, FASTRO, FACRO, Professor and Chairman of the Department of Radiation Oncology at Montefiore Medical Center and Albert Einstein College of Medicine. “We are honored to partner with the National Cancer Institute on this important discovery journey.”

The workshop is geared toward radiation oncologists, physicists, dosimetrists, microbiologists, scientists, researchers and others who are interested in further understanding and advancing the fields of GRID/Lattice, Flash and Microbeam Radiotherapy.

Presentations will focus on the proposed mechanisms of action, the study and usage of appropriate treatments, and the future potential for, “radiation as a drug”. Techniques to be explored include Stereotactic Radiosurgery (SRS), GRID, unconventional spatial-temporal beam configuration such as Lattice, microbeam, HDR brachytherapy and flash-RT.

“We believe science and clinical benefits are underpinning facets that will drive standard-of-care for new technologies in the fields GRID/Lattice, Flash and Microbeam Radiotherapy,” said Soren Bentzen, PhD, DMSc, Division Director, Biostatistics and Bioinformatics, University of Maryland.

Presenters include clinicians from prestigious institutions such as the University of Arkansas, University of California Irvine, Biophysics Research Institute of America, Geisinger Cancer Institute, University of Maryland Medical Center, Montefiore Medical Center, Innovative Cancer Institute, Stanford University, International
Atomic Energy Agency (IAEA) and the University of North Carolina.

The deadline for abstract submission is Monday, July 9, 2018, at 5:00pm PT. For those interested in attending the workshop, registration is open until Wednesday, August 15, 2018.

For more information please visit: https://2018grid.therss.org.

About the Radiosurgery Society®
The Radiosurgery Society (RSS) – a non-profit, independent, multi-disciplinary organization of surgeons, radiation oncologists, physicists, and allied professionals, who are dedicated to advancing the science and clinical practice of radiosurgery. Originally formed in 2002 and becoming (501c6) in 2008, the Radiosurgery Society today (www.therss.org) represents approximately 600 members who perform stereotactic body radiotherapy and radiosurgery in hospitals and freestanding centers throughout the world.
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