

Radiation Oncology/Oncologic Imaging

RADIOLOGICAL SOCIETY OF NORTH AMERICA

105™ Scientific Assembly and Annual Meeting

Meeting.RSNA.org #RSNA19

Accreditation and Designation Statements

The Radiological Society of North America (RSNA®) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The RSNA designates this live activity for a maximum of 94.00 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Commission on Accreditation of Medical Physics Education Program (CAMPEP) has approved the direct transfer of *AMA PRA Category 1 Credit*™ to MPCEC on a credit-for-credit basis for medical physicists.

Corporate Symposium

Please refer to each course description in the online program to determine if CME credit is offered for the session. Instructions on claiming credit will be provided during the course. CME credit for the Corporate Symposiums will be provided through a third-party provider and not through RSNA.

Program information is subject to change. For the most up-to-date information, please use your Meeting App or visit *Meeting.RSNA.org*.

Walk Through the Week

Sunday, Dec. 1, 2019

| 10:45 AM-12:15 PM Scientific Papers Sessions Gastrointestinal (LIRADS) Session SSA07S103AB |
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| Gastrointestinal (Rectal Cancer) Session SSA09S103CD |
| Nuclear Medicine (Genitourinary Oncology Nuclear Medicine and PET) |
| Session SSA16 |
| Radiation Oncology (Radiobiology/Science) Session SSA23 |
| 10:45 AM-12:15 PM |
| Educational Courses |
| Oncodiagnosis Panel: Renal Cell Carcinoma Session SPOI11 |
| 12:30–1:00 PM Posters and Exhibits: Discussions Radiation Oncology Sunday Poster Discussion Session ROS-SUA RO Community, Learning Center |
| 1:00–3:00 PM Educational Courses Interventional Oncology Series: Interventional Therapies for Primary and Metastatic Lung Tumors Course VSI011 |
| 1:00–1:30 PM Posters and Exhibits: Discussions Radiation Oncology Sunday Poster Discussions Session ROS-SUB RO Community, Learning Center |
| 2:00-3:30 PM Educational Courses Abbreviated/Faster MRI Abdominal Pelvic Protocols Course RC109 |
| Interactive Game: Cases in Body Oncologic Imaging that I Have Learned the Most From (Interactive Session) Course RC118 |
| |

What's New in the Treatment of Brain Metastases?



| 3:15–5:15 PM Educational Courses Interventional Oncology Series: Primary Liver Cancer-Update on Therapeutic Options and Future Outlook Course VSIO22 | 10:30 AM-12:00 PM Educational Courses BOOST: Genitourinary-Anatomy and Treatment Planning (Interactive Session) Course MSR032 |
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| 4:30-5:30 PM Educational Courses BOOST: Head and Neck-eContouring Course MSR029 | BOOST: Lung, Mediastinum, Pleura-Anatomy and Treatment Planning (Interactive Session) Course MSR036 |
| Tuesday, Dec. 3, 2019 | Radiation Oncology Tuesday Poster Discussions Session ROS-TUA RO Community, Learning Center |
| 8:30–10:00 AM Educational Course BOOST: Gastrointestinal-Case-based Multidisciplinary Review (Interactive Session) Course MSR031 | 12:45–1:15 PM Posters and Exhibits: Discussions Radiation Oncology Tuesday Poster Discussions Session ROS-TUB RO Community, Learning Center |
| BOOST: Musculoskeletal-Sarcoma Case-based Multidisciplinary Review (Interactive Session) Course MSR035 | 1:00-3:00 PM Educational Courses Interventional Oncology Series: From Bench to Bedside Course VSI031 |
| An Integrated Approach to Tumor Heterogeneity Using Imaging Course RC318 | 3:00-4:00 PM Scientific Papers Sessions |
| Radiogenomics of GBM Course RC320N230B | Chest (Artificial Intelligence/Machine Learning - Lung Malignancy) Session SSJ05 |
| Advances in Cone Beam CT Acquisition and Reconstruction in Radiotherapy Course RC322S503AB | Radiation Oncology (Gastrointestinal Malignancies) Session SSJ24 |
| 8:30 AM-12:00 PM | 3:00-4:15 PM |
| Educational Courses Neuroradiology Series: Brain Tumors Course RC305S406B | Educational Courses BOOST: Genitourinary-Case-based Multidisciplinary Review (Interactive Session) Course MSRO34 |
| Genitourinary Series: Imaging with Impact in Gynecologic Oncology Course RC307 | BOOST: Lung, Mediastinum, Pleura-Case-based Multidisciplinary Review (Interactive Session) Course MSRO38 |
| 10:30 AM-12:00 PM | Course Morcoso |
| Scientific Papers Sessions | 3:15-5:15 PM |
| Nuclear Medicine (Lymphoma PET) Session SSG09S504CD | Educational Courses Interventional Oncology Series: Colorectal Liver Metastases Course VSI032 |
| Radiation Oncology (Lung, Mediastinum, Pleura) | |
| Session SSG15 | 4:30-6:00 PM Educational Courses Challenges and Opportunities for Cancer Screening Course RC418 |

Posters and Exhibits: Discussions Radiation Oncology Wednesday Poster Discussions

Session ROS-WEA RO Community, Learning Center



| Imaging Evaluation After Stereotactic Radiotherapy Course RC420N230B | 12:45-1:15 PM Posters and Exhibits: Discussions | |
|--|---|--|
| Anatomical MR Imaging for Radiotherapy Planning and Guidance Course RC422 | Radiation Oncology Wednesday Poster Discussions Session ROS-WEB RO Community, Learning Center | |
| US for Thyroid Cancer: Diagnosis, Surveillance, and Treatment Course RC450S403A | 1:00-3:00 PM Educational Courses Interventional Oncology Series: Renal Ablation/Embolization | |
| 4:30-5:30 PM Educational Courses BOOST: Gastrointestinal- Anorectal Cancer eContouring Course MSR039 | Course VSI041 | |
| Wednesday, Dec. 4, 2019 | Molecular Imaging (Oncology) Session SSM16S505AB | |
| 8:30–10:00 AM Educational Courses BOOST: Pediatric-Case-based Multidisciplinary Review (Interactive Session) Course MSR041 | Physics (Radiation Therapy/Outcome Modeling/Image Processing) Session SSM23 | |
| Update on Radionuclide Therapies Course RC511 | 3:00-4:15 PM Educational Courses BOOST: Advanced Techniques in Image-guided Therapy | |
| Course RC518 | (Interactive Session) Course MSR044 | |
| Course RC520 | 3:15-5:15 PM Educational Courses Interventional Oncology Series: Clinical Trials in Interventional Oncology Course VSIO42 | |
| Chest (Lung Cancer Screening) Session SSK05N229 | 4:30-5:30 PM Educational Courses | |
| Radiation Oncology (Genitourinary) Session SSK20 | BOOST: Lung Stereotactic Body Radiotherapy (SBRT)-eContouring Course MSR049 | |
| 10:30 AM-12:00 PM Educational Courses BOOST: Lymphoma-Case-based Multidisciplinary Review (Interactive Session) Course MSR042 | 4:30 – 6:00 PM Educational Courses Controversy Session: Proton Therapy: Hope or Hype? Session SPSC44 | |
| 12:15-12:45 PM | | |



| Interactive Game: Pearls and Tips in Oncologic Image Interpretation (Interactive Session) Course RC718 | | | | |
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| Functional MR Imaging for Normal Tissue Response Assessment in Radiotherapy Course RC722S503AB | | | | |
| Friday, Dec. 6, 2019 | | | | |
| 10:30 AM-12:00 PM Scientific Papers Sessions Nuclear Medicine (Thoracic Oncology Nuclear Medicine and PET) Session SST06 | | | | |
| Posters and Exhibits | | | | |
| Discussions | | | | |
| (CME is available when the author is present for discussion during the lunch period) | | | | |
| Sunday, Dec. 1, 2019 | | | | |
| 12:30–1:00 PM Scientific Posters Cost Analysis of Audiovisual-Assisted Therapeutic Ambiance in Radiation Therapy (AVATAR) Aided Omission of Anesthesia in Radiation for Pediatric Malignancies R0201-SD-SUA2. Station #2 | | | | |
| Smoking History and Cessation Discussions in Cancer Patients Receiving Definitive Radiotherapy: Do We Treat All Patients Equally? RO200-SD-SUA1 | | | | |
| 12:30–1:00 PM Education Exhibits Stereotactive Ablative Radiotherapy for Oligometastatic Colorectal Cancer R0106-ED-SUA3. Station #3 | | | | |
| 1:00–1:30 PM Scientific Posters High-Dose Irradiation in Combination with Anti-PD-L1 and Anti-VEGF Promote Antitumor Immunity in Murine Lung Tumors R0202-SD-SUB1. Station #1 | | | | |

Locally Advanced Cervical Cancer Treated with Radiotherapy RO215-SD-THB1 Station #1

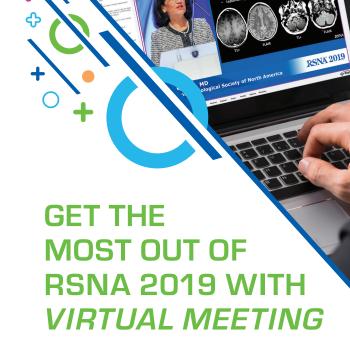
| The Relationship Between Fractures within the Irradiation Field Among Elderly Asian Women Who Have Received Definitive Radiation Therapy for Cervical Cancer Treatment RO203-SD-SUB2 | Relationship Between Spleen Dose and Lymphocyte Loss Rates During Radiation Therapy in Patients with Pancreaticobiliary and Gastroesophageal Tumors RO208-SD-TUB1 |
|--|---|
| 1:00–1:30 PM Education Exhibits Radiation-Induced Malignancies: Current Update on | Wednesday, Dec. 4, 2019 |
| Pathogenesis and Cross-Sectional Imaging Findings R0107-ED-SUB3Station #3 | 12:15–12:45 PM Scientific Posters Imaging-guided Target Volume Reduction in Radiotherapy of |
| Monday, Dec. 2, 2019 | Lung Cancer: The Prospective Randomized Multinational PET-Plan Trial RO211-SD-WEA2 |
| 12:15-12:45 PM Scientific Posters Learning Curve for Image-Guided Brachytherapy of Cervical | Investigation of the Volume of Prostate, Bladder and Rectal Wall Variation During External Beam Radiotherapy |
| Cancer RO217-SD-MOA2Station #2 | RO210-SD-WEA1 |
| 12:45–1:15 PM Scientific Posters | Dysgeusia in Head and Neck Cancer RO218-SD-WEA3 |
| Outcomes of Stereotactic Radiotherapy for Vestibular Schwannoma RO205-SD-MOB2 | 12:45–1:15 PM Scientific Posters Pinarametria MPI Prior to Primary Padiatherapy for Proceeds |
| Quantitative T1 Mapping Technique in Enhanced MRI to Assess Response to Chemoradiotherapy in Rectal Cancer R0204-SD-M0B1 | Bi-parametric MRI Prior to Primary Radiotherapy for Prostate Cancer in a Resource Limited Setting: Implications for Risk Group Stratification and Treatment RO212-SD-WEB1 |
| Tuesday, Dec. 3, 2019 | Hafnium Oxide Nanoparticles Activated by Radiotherapy Induce an Anti-Tumor Immune Response RO219-SD-WEB3 |
| 12:15-12:45 PM Scientific Posters MiRNA Expression Patterns as Potential Biomarkers in Predicting Response to Neoadjuvant Chemoradiotherapy in Rectal Cancer | Ultrashort Echo-Time Dynamic Contrast Enhancement MRI of Vascular Perfusion and Permeability Changes in Multiple Organs in a Preclinical Model of Irradiation RO213-SD-WEB2 |
| RO206-SD-TUA1 | Thursday, Dec. 5, 2019 |
| the Staging and Restaging of Patients with Multiple Myeloma (MM): A Long Period Follow-Up RO207-SD-TUA2Station #2 | 12:15-12:45 PM Scientific Posters Intra-Fractional Dose Variation of Organs at Risk in High Dose |
| 12:45–1:15 PM Scientific Posters Intranodular Radiomic Features on Lung Non-Contrast CT | Rate Image-Guided Brachytherapy for Cervical Cancer R0214-SD-THA1 |
| Images Distinguish Malignant from Benign Pulmonary Nodules R0209-SD-TUB2Station #2 | 12:45-1:15 PM Scientific Posters Outcomes After Treatment for Recurrence in Patients with |



Education Exhibits

| SPACE NO. | EXHIBIT TITLE |
|------------|--|
| R0001-EB-X | Paradigm Shift of Treatment Strategy for Differentiated and Anaplastic Thyroid Cancer: A New Era of Multidisciplinary Treatment of Surgery, Radioiodine, External Radiation, and Molecular Targeting Agents |
| R0100-ED-X | Radiation Therapy-related Side Effects: Imaging the Collateral Damage |
| RO101-ED-X | Development of a Standardized Method for Radiation Therapy Contouring of the Piriform Cortex |
| R0102-ED-X | The Biological and Cytogenetic Effects of Ionizing Radiation from CT Scans |
| R0103-ED-X | Evaluation of an Advanced FOV Extending Algorithm (DLEFOV) Based on Deep Learning |
| RO104-ED-X | In Vivo Measurement of Brain Tissue Response After Irradiation Using MR-based Conductivity Imaging Method |
| RO105-ED-X | Complete Insight to Prostate Cancer: Giving Our Patients the Advantage of MP (Multiparametric) MRI and F18-PSMA (Prostate Specific Membrane Antigen) |

PET/CT



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Questions?

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